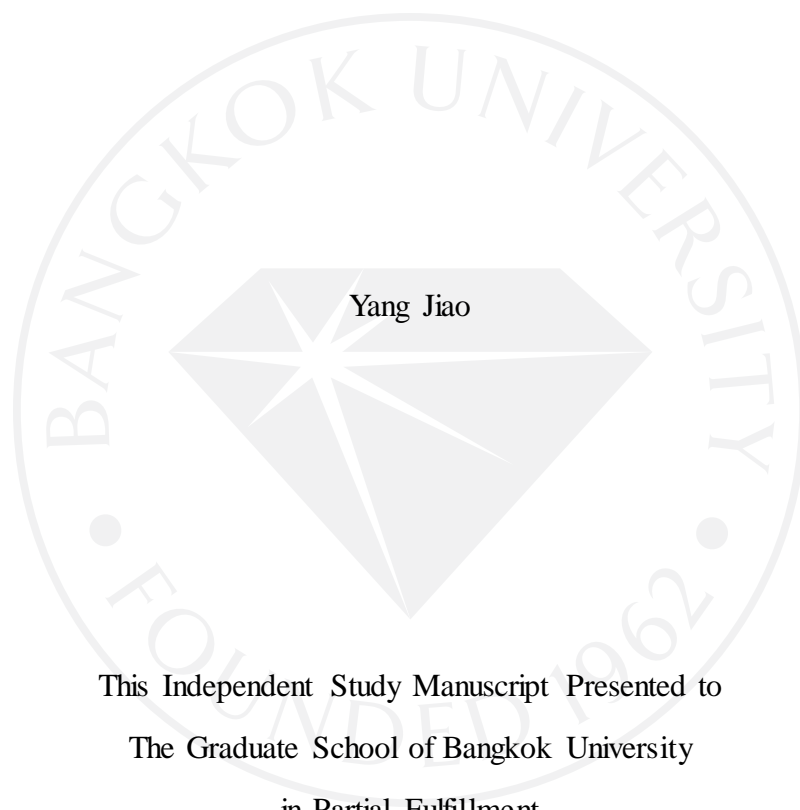


THE STUDY OF FACTORS INFLUENCING PURCHASE DECISION OF
PASSENGER CAR IN THAILAND



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PASSENGER CAR IN THAILAND



This Independent Study Manuscript Presented to
The Graduate School of Bangkok University
in Partial Fulfillment
of the Requirements for the Degree
Master of Business Administration



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**This Independent Study has been approved by
the Graduate School
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The Study of Factors Influencing Purchase Decision of Passenger Car in Thailand.

(111pp.)

Advisor: Sumas Wongsunopparat, Ph.D.

ABSTRACT

The intention and reason for study is to find out that the internal of passenger automobiles' factor that can impact on Thai customers' purchase decision, so that can kindly know how to improve passenger itself to gain more trust that make customers to decide to purchase passenger automobile. The research objective of this study is to determine the relationship between customers' purchase decision and the factors that may affect it. The factors include are product quality, better fuel economy, after sale service, battery safety record, promotion, location, brand image, product design, price, warranty, demographic lifestyle.

There is a low positive relationship between product quality, better fuel economy, after sale service, battery safety record, promotion, location, brand image, price, warranty, demographic lifestyle and purchase decision. And there is a medium positive relationship between product design and purchase decision. This means, the eleven factors, product quality, better fuel economy, after sale service, battery safety record, promotion, location, brand image, product design, price, warranty, demographic lifestyle can be developed to increase the level of purchase decision.

Keywords: passenger car in Thailand, purchase decision, product quality, better fuel economy, after sale service, battery safety record, promotion, location, brand image, product design, price, warranty, demographic lifestyle.

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The grateful thanks to my university (Bangkok University) provided me with useful and necessary resources to complete the study which I want to emphasize that. I also have a great opportunity to expand my knowledge, in order to better develop their future career.

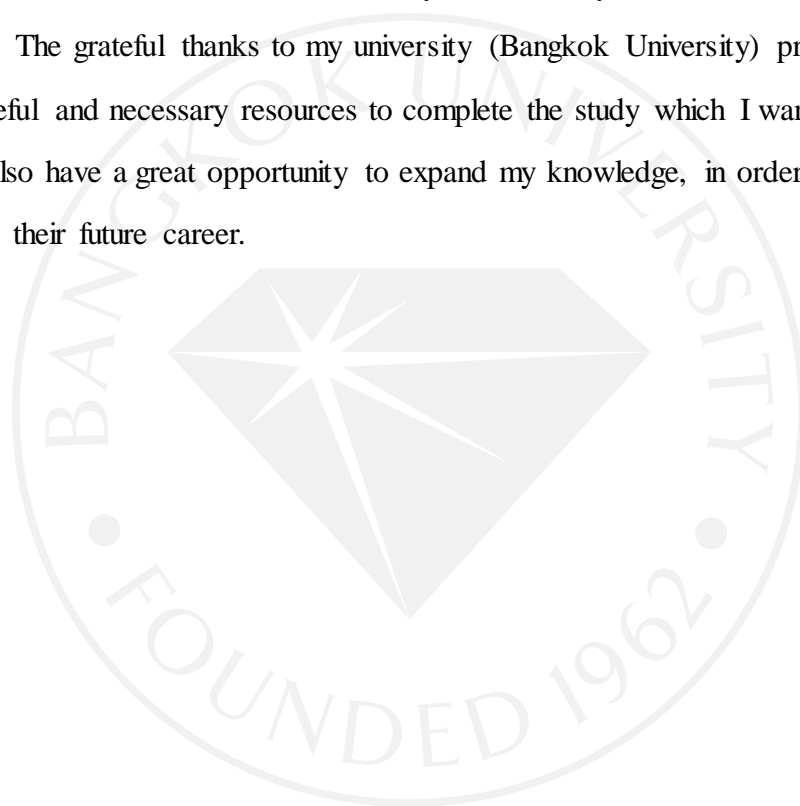


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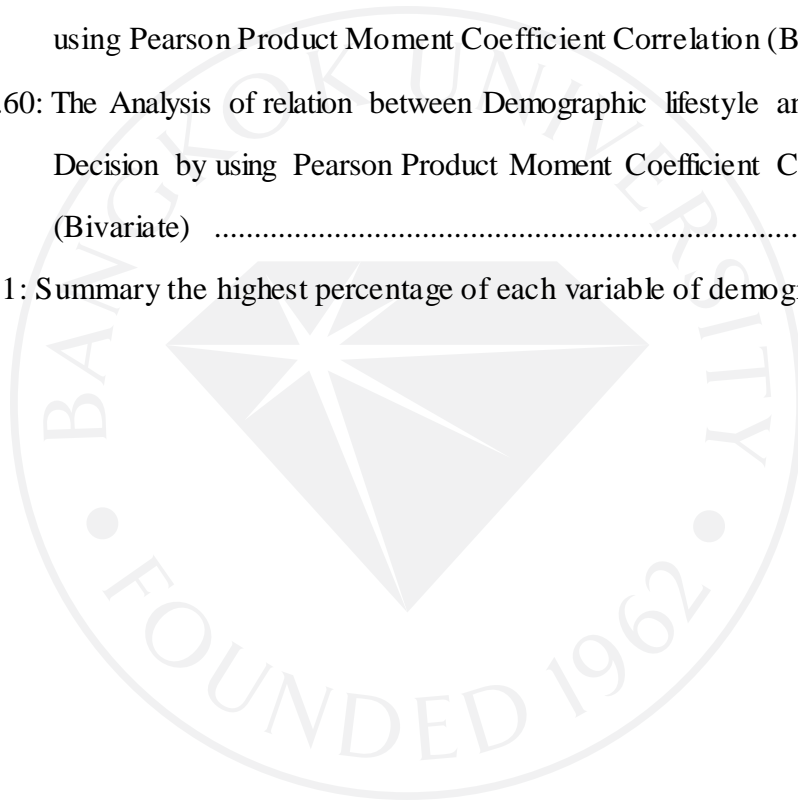
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CHAPTER 1 INTRODUCTION

The customer's purchase decision and the factors related to it will be introduced primarily. The entire research will be presented at first. And the statement of problem, research objective, scope of research limitation of the study, intension and reason to study, assumptions, major research questions, benefit of study will present as well.

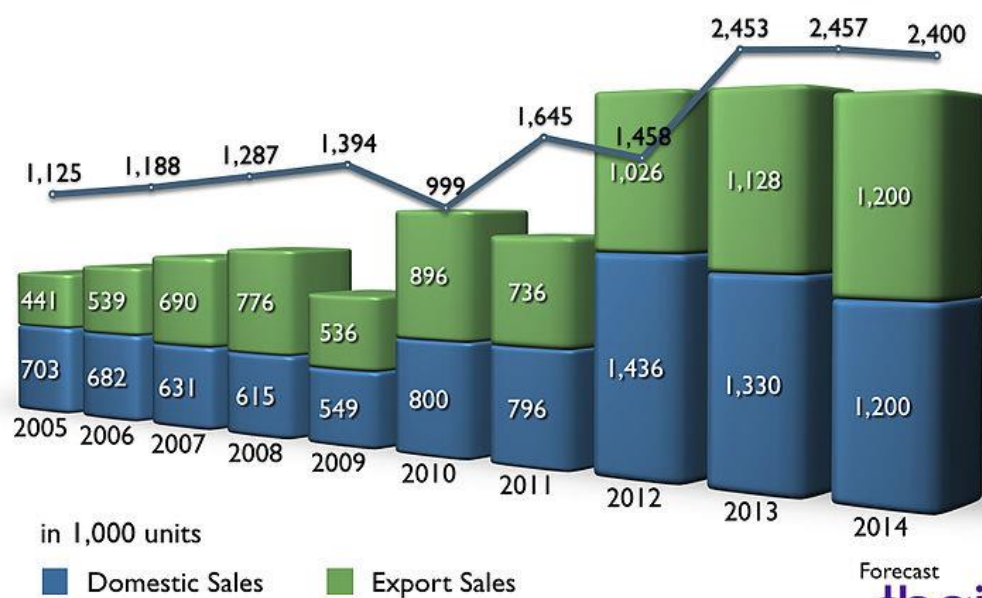
1.1 Background

At present, for competing with other competitors, a lot of companies have to draw the potential customers' attention, to get more market share. Mattar (2001) stated that customers' purchase decision is becoming the key factor that in the research of many years. The definition of customers' purchase decision is the sum total of a consumer's attitudes, preferences, intentions and decisions regarding the consumer's behavior in the marketplace when purchasing a product or service. The study of consumer behavior draws upon social science disciplines of anthropology, psychology, sociology, and economics.

Honda Company started its business in 1983 year, and nowadays, it becomes most significant automobile company in Thailand. Until 2008, there are two production factories in Thailand, until now, Honda already get the big success under the huge competition with other automobile companies, such as Toyota, Isuzu, Nissan, etc. There are so many dealers in every location of Thailand which can easily serve the customers and potential buyers. The manufactory of Honda is not only to meet the demand of domestic customers in Thailand, but also export the automobile to other countries in ASEN. The profit can gain from both inside and outside of Thailand. Honda has many dealers located in almost every province in Thailand. This is intended to provide Honda's customers with the broadest service coverage and meet the fast-changing demands of consumers.

The reason that the Honda cars are the top mind of Thai people, not only the high quality and the better outlook which match with customer's wants, but also because of the excellent after-sales service. Honda has create the good relationship with customers which make customers like to be one of Honda members, and that already go beyond the simply standard buyer-seller relationship. This relationship creation is the key to help Honda become the top automobile company in Thailand. And also Honda make commitment to provide the good cars and service make costumers feel more good compare to other brand cars.

Thailand Automotive Production 2004-2013



Source: FTI, Thai Autobook Research

Figure 1.1: Thailand automobile production during year 2004-2013

From the figure 1.1, it shows that the production of automobile in Thailand increased from 2005 to 2009 between 1,125 to 1,394 thousand of units. And there was a drop from 1,394 to 999 thousand of units from year 2009 to 2010. Then, the growth was continued from 999 to 1,645 thousand of units from year 2010 to 2011. However, it dropped from 1,645 to 1,458 thousand of units from year 2011 to 2012. After that, it recovered back to growth with 2,453 to 2,400 from year 2012 to 2014. The manufacture of automobile not only meet the demand of inside Thai market, but also the outside of Thailand.

Toyota is a Japanese automotive manufacturer headquartered in Toyota, Aichi, Japan. In March 2014 the multinational corporation consisted of 338,875 employees worldwide and, as of November 2014, is the eleventh-largest company in the world by revenue. Toyota was the largest automobile manufacturer in 2012 (by production) ahead of the Volkswagen Group and General Motors. In July of that year, the company reported the production of its 200-millionth vehicle. Toyota is the world's first automobile manufacturer to produce more than 10 million vehicles per year. It did so in 2012 according to OICA, and in 2013 according to company data. As of July 2014, Toyota was the largest listed company in Japan by market capitalization and by revenue.

Nissan Motor Company Ltd, usually shortened to Nissan, is a Japanese multinational automobile manufacturer headquartered in Nishi-ku, Yokohama, Japan. Nissan was the sixth largest automaker in the world behind Toyota, General Motors, Volkswagen Group, Hyundai Motor Group, and Ford in 2013. Taken together, the Renault–Nissan Alliance would be the world's fourth largest automaker. Nissan is the leading Japanese brand in China, Russia and Mexico.

1.2 Statement of Problems

Automobile market behavior is significant interest because of substantial impacts of automobile production and use on a variety of business concerns including trade flows, business cycles, and energy demand. Additional, automobile sales growth has obviously proved the importance of city cars for urban Thais. That's is very important for the owner of automobile company to understand what kind of factors will impact on the customer's buying decision, so that can affect to the volume of automobile sales.

1.3. Intention and Reason for Study

The intention and reason for study is to find out that the internal of passenger automobiles' factor that can impact on Thai customers' purchase decision, so that can kindly know how to improve passenger itself to gain more trust that make customers to decide to purchase passenger automobile.

1.4 Research Objective

The research objective of this study is to determine the relationship between customers' purchase decision and the factors that may affect it. The factors include are product quality, better fuel economy, after sale service, battery safety record, promotion, location, brand image, product design, price, warranty, demographic lifestyle.

1.5. Major Research Question: Sub-question development

Major Research Question:

Is there have relationship between product quality, better fuel economy, after sale service, battery safety record, promotion and location, brand image, product design, product quality, better fuel economy, after sale service, battery safety record, promotion, location, brand image, product design, price, warranty, demographic lifestyle with customer's purchase decision towards passenger automobile in Bangkok.

Sub-question Development:

1. Is there have relationship between ages with customer's purchase decision towards passenger automobile in Bangkok.
2. Is there have relationship between genders with customer's purchase decision towards passenger automobile in Bangkok.
3. Is there have relationship between income levels with customer's purchase decision towards passenger automobile in Bangkok.

1.6. Assumptions

For the validity and reliability of this study, researcher make the assumption as followed:

1. All the respondents have the thoughts that considered to purchase Honda automobile.
2. All the respondents are honest to express their truly options in this study.
3. The data that collect from questionnaire are valid and can accurately to represent for this study.

1.7 Scope of Research

In the study, the factors that impact on the customer's purchase decision Honda automobile industry in Bangkok will be determined. The factors include are product quality, better fuel economy, after sale service, battery safety record, promotion, location, brand image, product design, price, warranty, demographic lifestyle. The targeted customers are the new people that never have purchased passenger car and are willing to have one brand new passenger car, and also the customer that already have experience to purchase passenger car and own it. The target customers are no and limitation on age and genders.

This paper describes eleven independent variables which are product quality, better fuel economy, after sale service, battery safety record, promotion, location, brand image, product design, price, warranty, demographic lifestyle and only one dependent variable which is customer's purchase decision. There are 400 questionnaires were send to target population in the passenger service shop in Sukhumvit 66 Bangkok. In the questionnaires will be three section to cover all the independent variables and dependent variables. And judgment with convenience of non-probability sampling was applied during that time.

1.8 Benefit of the Study

The manager of sales and market manager can apply this research to determine the efficiency of their market strategies and sales technic. And also, they can use the information of this study to improve knowledge of understanding the real needs and wants when customers make the buying decision. So that, the owner of passenger car Company can know the key factors that determine the customer's purchase decision, then it will help to increase the sales of buying for get more revenues. The product quality, better fuel economy, after sale service, battery safety

record, promotion, location, brand image, product design, price, warranty, and demographic lifestyle can be adjusted after managers apply this research to match customers' wants better.

1.9 Limitation of Research

The factors that impact on the customer's purchase decision Honda automobile industry in Bangkok will be studied by the researcher. There is a limitation for data collecting is only 400 questionnaires cannot cover all the target populations in Bangkok, and also the time period is only in the April 2015. Researcher cannot research other independent variables besides these eight independent variables which are product quality, better fuel economy, after sale service, battery safety record, promotion, location, brand image, product design, price, warranty, demographic lifestyle and one dependent variable customer's purchase decision which is another limitation for this study. Because of those two limitations this study cannot cover the entire Honda automobile industry research.

CHAPTER 2

LITERATURE REVIEW

2.1 THEORY

Product Quality

Product quality means to incorporate features that have a capacity to meet consumer needs (wants) and gives customer satisfaction by improving products (goods) and making them free from any deficiencies or defects. A combination of quantitative and qualitative perspectives for which each person has his or her own definition; examples of which include, "Meeting the requirements and expectations in service or product that were committed to" and "Pursuit of optimal solutions contributing to confirmed successes, fulfilling accountabilities"

There are five aspects of quality in a business context:

Producing – providing something.

Checking – confirming that something has been done correctly.

Quality Control – controlling a process to ensure that the outcomes are predictable.

Quality Management – directing an organization so that it optimizes its performance through analysis and improvement.

Quality Assurance – obtaining confidence that a product or service will be satisfactory. (Normally performed by a purchaser).

Product quality is a critical element for consumer decision making; consequently, consumers will compare the quality of alternatives with regard to price

within a category (Jin and Yong, 2005). According to Davis et al. (2003), product quality is directly related to the reputation of the firm that manufactures the product. However, National Quality Research Center or NQRC (1995) defined product quality as the degree to which a product provides key customer requirements (customization) and how reliably these requirements are delivered (reliability). Consumers often judge the quality of a product on the basis of a variety of informational cues that they associate with the product. Some of these cues are intrinsic to the products. As defined by Zeithaml (1988b), cues that are intrinsic concern physical characteristics of the products itself, such as product's performance, features, reliability, conformance, durability, serviceability and aesthetics. Product quality has direct impact on customer purchase decision and brand loyalty, especially during the time customers have less or no information of the products that they are going to purchase (Aaker, 1991; Armstrong and Kotler, 2003).

Better Fuel Economy

Fuel consumption is one attribute valuation economy of car in each model. It is measured by number of distance by kilometer per liter. This attribute affect the price of car (Laohawilai, 1990).

Fuel economy is as important a factor in a consumer's choice of vehicle as are safety and reliability. The impact of volatile gasoline prices can be seen in all markets, with nine out of 10 respondents pointing to fuel economy as an important or very important consideration in their vehicle choice. Consumers across all markets expect to see greater emphasis on fuel efficiency and a significant shift to alternative-fuel vehicles in the coming decade. Electric/battery, water, hydrogen and solar were among the anticipated fuel sources for cars of the future (Car Online, 2009). Furthermore, Austin and Dinan (2005) assume that consumers fully value lifetime

fuel savings when considering fuel economy in their vehicle choices. There is no doubt that consumers do care about fuel costs, do value fuel economy, and that their interest in fuel economy increases when fuel prices increase (Mahadi and Gallagher, 2009). On the other hand, consumer demand for green products is growing. There is growing awareness of fuel-efficient and alternative fuel vehicles, and consumer research indicates a growing interest in purchasing more fuel efficient and low emissions “greener” vehicles. Consumer research shows that fuel savings is the primary factor influencing decisions to purchase green vehicle with concern about environmental impacts showing up as a secondary factor (Ernst and Young, 2010). According to Car Online Research (2009), more than one quarter of respondents said they currently own or lease a fuel-efficient vehicle while almost half said they are planning to buy or thinking seriously about buying a fuel-efficient vehicle. The numbers for alternative-fuel vehicles were lower. Just 2% of respondents currently own an alternative-fuel vehicle and 11% are planning to buy or thinking seriously about buying one. The most common type of alternative-fuel vehicle represented in the survey was gas or electric hybrids, named by about half of current alternative-fuel car owners.

After Sale Service

Service is any act of performance that one party can offer to another that is essentially intangible and does not result in the ownership of anything. Automobile manufacturers are classified into tangible good with accompanying service. This consists of a tangible good accompanied by one or more service to enhance its consumer appeal (Kotler, 1997). After sale service is the provision of service to customers after a purchase. Accordingly it may vary by product, service, industry and individual customer. The perception of success of such interactions is dependent on employees "who can adjust themselves to the personality of the guest", according to Micah Solomon. After sale service is also often referred to when describing the

culture of the organization. It concerns the priority an organization assigns to after sale service relative to components such as product innovation and pricing. In this sense, an organization that values good customer service may spend more money in training employees than the average organization, or may proactively interview customers for feedback.

After sales service refers to various processes which make sure customers are satisfied with the products and services of the organization. The needs and demands of the customers must be fulfilled for them to spread a positive word of mouth. In the current scenario, positive word of mouth plays an important role in promoting brands and products. After sales service makes sure products and services meet or surpass the expectations of the customers. After sales service includes various activities to find out whether the customer is happy with the products or not? After sales service is a crucial aspect of sales management and must not be ignored. After sales service plays an important role in customer satisfaction and customer retention. It generates loyal customers. Customers start believing in the brand and get associated with the organization for a longer duration. They speak well about the organization and its products. A satisfied and happy customer brings more individuals and eventually more revenues for the organization. After sales service plays a pivotal role in strengthening the bond between the organization and customers.

Battery Safety Record

In terms of safety, consumers consider safety to be one of the most important considerations in buying a new or used vehicle. The vehicle safety performances are ratings before purchasing a vehicle (Harris, 2001). In addition, consumers are increasingly seeking safety features in their vehicles (Deloitte, 2010) and are willing to pay more for a vehicle to obtain improved safety levels (Harris, 2001).

Furthermore, the Deloitte study also predicted that the current economic crisis will leave customers to value vehicle safety more than before and seek vehicles with enhanced safety features. Consumers' increasing demand for safety has led manufacturers to think and develop safety-related innovations and features (such as automatic crash notification, emergency assistance, and remote vehicle diagnostics) in their recent models (Deloitte, 2009; Dannenberg & Burgard, 2007). Majority of the consumers would consider safety and make it as primary consideration in the purchase process of a new or used vehicle. In order to meet consumers' safety demand, most of the manufacturers are trying their best to develop safety-related innovations and features in the cars. Thus, consumer buying behavior is essential for car manufacturers to reach their target market with their customer knowledge.

Promotion

Promotion refers to raising customer awareness of a product or brand, generating sales, and creating brand loyalty (Mulhern, 2009). It is one of the four basic elements of the market mix, which includes the four P's: price, product, promotion, and place. Promotion is also defined as one of five pieces in the promotional mix or promotional plan. These are personal selling, advertising, sales promotion, direct marketing, and publicity. A promotional mix specifies how much attention to pay to each of the five factors, and how much money to budget for each (Mulhern, 2009).

Fundamentally, there are three basic objectives of promotion. These are: to present information to consumers and others, to increase demand, to differentiate a product. The purpose of a promotion and thus its promotional plan can have a wide range, including: sales increases, new product acceptance, creation of brand equity, positioning, competitive retaliations, or creation of a corporate image (Mulhern, 2009). The term promotion is usually an "in" expression used internally by the

marketing company, but not normally to the public or the market, where phrases like "special offer" are more common.

Promotion can be done by different media, namely print media which includes newspaper and magazines, electronic media which includes radio and television, digital media which includes internet, social networking and social media sites and lastly outdoor media which includes banner ads, OOH (out of home). Digital media is a modern way of brands interacting with consumers as it releases news, information and advertising from the technological limits of print and broadcast infrastructures. Mass communication has led to modern marketing strategies to continue focusing on brand awareness, large distributions and heavy promotions (Mulhern, 2009). The fast-paced environment of digital media presents new methods for promotion to utilize new tools now available through technology. With the rise of technological advances, promotions can be done outside of local contexts and cross geographic borders to reach a greater number of potential consumers. The goal of a promotion is then to reach the most people possible in a time efficient and a cost efficient manner (Mulhern, 2009).

Location

Ilian and Yasuo (2005) clarified location is the option for entering business. Also, Kala and Guanghua (2010) defined location as the selection where business is to be located, and locations should be small, medium or large or urban or rural. According to Kala and Guanghua (2010) concerning location to an option for locating the business into the rural or urban place and considering also which type of product and service the firm will provide.

Greening, Barringer, and Macy (1996) referred to location as an important issue that usually impact firm performance, although, it always be ignored. Kala and

Guanghua (2010) have noted that strategic location can really help domestic firms to accomplish absolute good performance. Location factors are much articulated, and the most important reasons are broad region in different socioeconomic place and the resource boundaries inside the country as well.

Guanghua (2010) declared, location of company has a very important function in the expansion of entrepreneurship. Greening, et al (1996); Guanghua (2010) asserted that there is a significant relationship between performance of small firm and location. To ascertain performance of firm, location is used as a meaningful. Kala and Guanghua (2010) described that to get positive firm performance, location as company strategy help domestic firms. Guanghua (2010) has also showed evidence of effect of location on emergence of entrepreneurs and consequently their performance.

Brand Image

The impression in the consumers' mind of a brand's total personality (real and imaginary qualities and shortcomings). Brand image is developed over time through advertising campaigns with a consistent theme, and is authenticated through the consumers' direct experience. See also corporate image. The brand image refers to the way a market as a whole views a given company or product. Many companies attempt to create a strong brand that people identify with a given product.

Kotler and Keller (2009) described brand image as the perceptions and beliefs held by consumers about the brand. In today's dense marketplace, consumers often decide to purchase brands based on their image or identity. The identity of a brand is central to the brand's strategic vision since it embodies the basic characteristics that will sustain it over time; just as a person's identity provides direction, purpose and meaning (Aaker, 1996). Thus, a brand's identity is the sum of unique associations that consumers have when confronted with the brand (Keller, 2003). Corporate image in the service marketing literature was early identified as an important factor in the

overall evaluation of the service and the company (Bitner, 1991; Grönroos, 1984; Gummesson and Grönroos, 1988). Corporate image is a filter which influences the perception of the operation of the company.

Product design

Product design is the process of creating a new product to be sold by a business to its customers. A very broad concept, it is essentially the efficient and effective generation and development of ideas through a process that leads to new products.

Automotive design is the profession involved in the development of the appearance, and to some extent the ergonomics, of motor vehicles or more specifically road vehicles. This most commonly refers to automobiles but also refers to motorcycles, trucks, buses, coaches, and vans. The functional design and development of a modern motor vehicle is typically done by a large team from many different disciplines included within automotive engineering. Automotive design in this context is primarily concerned with developing the visual appearance or aesthetics of the vehicle, though it is also involved in the creation of the product concept. Automotive design is practiced by designers who usually have an art background and a degree in industrial design or transportation design.

Price

In ordinary usage, price is the quantity of payment or compensation given by one party to another in return for goods or services. In modern economies, prices are generally expressed in units of some form of currency. The last price at which a security, options contract, or commodity trades during the trading session. Price is a component in a number of technical and fundamental analysis strategies. The value of

a thing with real or perceived worth. Price represents the amount of value the market has assigned, fairly or unfairly, to a good or service. Normally, prices are expressed in terms of money. Prices tend to be regulated by the law of supply and demand; that is, a price of a good or service increases with smaller supply and/or greater demand. An amount of money exchanged for something of value.

Warranty

A warranty has various meanings but generally means a guarantee or promise which provides assurance by one party to the other party that specific facts or conditions are true or will happen. This factual guarantee may be enforced regardless of materiality which allows for a legal remedy if that promise is not true or followed. A warranty may be express or implied, depending on whether the warranty is explicitly provided (typically written) and the jurisdiction. Warranties may also state that a particular fact is true at one point in time or that the fact will be continue into the future (a "promissory" or continuing warranty). Warranties provided in the sale of goods (tangible products) vary according to jurisdiction, but commonly new goods are sold with implied warranty that the goods are as advertised. Used products, however, may be sold "as is" with no warranties.

Demographic lifestyle

The term demographic lifestyle can denote the interests, opinions, behaviors, and behavioral orientations of an individual, group, or culture and with an individual's demographic profile. Demographic lifestyle can be the factor that impact on the customer's purchase decision.

Purchase Decision

Purchase Decision is the decision processes and acts of people involved in buying and using products. According to Walters & Paul, 'Purchase Decision is the process whereby individuals decides what, when, where, how and from whom to purchase goods & services. Consumer purchase decision refers to the multi-step decision-making process people engage in and the actions they take to satisfy their needs and wants in the marketplace. Consumer purchase decision is considered to be an inseparable part of marketing and Kotler and Keller (2011) state that consumer purchase decision is the study of the ways of buying and disposing of goods, services, ideas or experiences by the individuals, groups and organizations in order to satisfy their needs and wants. Buyer behavior has been defined as "a process, which through inputs and their use though process and actions leads to satisfaction of needs and wants" (Enis, 1974). Consumer purchase decision has numerous factors as a part of it which are believed to have some level of effect on the purchasing decisions of the customers. Alternatively, consumer purchase decision "refers to the purchase decision of final consumers, both individuals and households, who buy goods and services for personal consumption" (Kumar, 2010). The definition formed by Solomon et al (1995) describes consumer purchase decision as a process of choosing, purchasing, using and disposing of products or services by the individuals and groups in order to satisfy their needs and wants. Similar definition of consumer purchase decision is offered by Schiffman and Kanuk (2000) in which they describe it as behavior that consumers express when they select and purchase the products or services using their available resources in order to satisfy their needs and desires.

2.2. Previous Studies

Reza and Valeech (2013) studied Influence of Social Reference Groups on Automobile Buying Decision – Research on Young Executives. Influence of social

reference groups is one of the many subconscious factors that can form a consumer behavior for products used in public settings. This phenomenon also affects our preferences for particular brands or products and influences our purchase decisions relating to them. Every marketer strives to tap the subconscious factors that can help strengthen the brand associations and drive purchase. The study seeks to evaluate the influence of three major types of reference group influences i.e. informational influence, utilitarian influence, and value-expressive influence on the automobile buying behavior of young executives. In a country like Pakistan where purchasing power is low, young executives become one of the prospect buyers for automobiles. Thus the results would help marketers in designing marketing communication campaigns in a way that could trigger psychological bonding between the customer and the most influential reference group thus ensuring a strong positive response.

Lee and Govindan (2014) researched Emerging Issues in Car Purchasing Decision. The automotive industry is an important segment of the economy in any country as it links industries and services. It is the key driver of any growing economy. It plays an important role in growing the economy in each country and one way to strengthen the industry is to improve consumer insight into vehicle buying behavior. Besides, competitive pressure of automotive companies arising in Malaysia has led the companies to look for an edge to be competitive in automotive industry. Both the local and foreign cars are competing to get attention from the consumers. Therefore, the objective of this study is to identify the factors influencing consumer buying behavior towards national automobiles in the Malaysian perspective. The independent variables in this study consist of four dimensions, namely reliability, safety, fuel economy, and price. The sample sizes of this study are 171 out of 200 targeted respondents through online questionnaire with 85.5% return rate. The unit of analysis for this research consists of individual potential car buyers in Kuala Lumpur. In addition, this study focused on the determinant of consumers buying behaviour towards national cars in Kuala Lumpur with their rapid growth in car ownership. It is clear that the rapidly-expanding car market in the Federal Territory of Kuala Lumpur

is a direct product of the spectacular economic performance of these areas. The car markets in Kuala Lumpur plays a huge economic role towards the general development of Malaysia. The result is tested by using descriptive (frequency analysis) and statistical analysis (reliability analysis, and simple linear regression analysis). The result indicates that the three independent variables of car's reliability, safety, and price significantly influence consumer buying behaviour towards national cars in Kuala Lumpur. The result can assist the Malaysian automotive companies to increase their sales by focusing on those important factors.

Yee et al., (2011) investigated Consumers' Perceived Quality, Perceived Value and Perceived Risk Towards Purchase Decision on Automobile. As the level of competition keep on increasing in Malaysia automobile market, it is essential for every automobile producer companies to understand customer insight in order to further increase their share of wallet. Thus, they need to understand what factors might influence their customers' decision in purchasing an automobile. Therefore, the objectives of this research is to study the relationships of perceived quality, perceived value and perceived risk that will effect on Malaysia consumer purchase decision towards cars. Approach: Survey using convenience sampling was done at Klang Valley to customers' age between 23-65 years old and above. Questionnaires were distributed to 200 respondents at the sampling location. Results: All the 200 sets of data were reliable where Cronbach's alpha is more than 0.6. Pearson correlation also showed the strength of the relationship between those variables and normality assumption was meet. Results from multiple regression analysis showed the positive association between the three factors mentioned previously with purchase decision. Conclusion/Recommendations: The results from this research provide a platform for Malaysia automobile makers to understand consumer behavior and how it affects their purchase decision. In order to ensure that the findings of sample are representative and conclusive, future research should be include with larger number of respondents.

Gupta (2013) researched A Study of Buying Decision Influencers for Passenger Car Segment in New Delhi. Indian Automobile passenger car market is witnessed by the presence of many national and multi-national manufactures post liberalization 1991. The availability of many alternatives within the city provides an opportunity to the consumers to make a rational decision after considering all the options. Today is an era which is characterised by a consumer's market where the manufacturers and marketers not only takes into consideration the consumer orientation to make them satisfied but goes one step ahead of achieving consumer delight. Consumers look for those differentiating parameters, which may help them to make a best decision and can be proved as value to money proposition for them. It makes more important to analyse the consumer perceptions and behaviour of the passenger car owners which will give the feedback pertaining to designing the marketing strategies. The objective of this paper is to investigate those differentiating parameter and effect of reference group that influence the consumer buying behaviour of car owners within the city of New Delhi. The primary data was collected from 191 respondents, located in New Delhi using convenience sampling. The results revealed the strong influence of attributes like price, fuel efficiency in buying decision and importance of reference group.

2.3 Hypothesis

H1o: There is no relationship between Product Quality and Purchase Decision

H1a: There is a relationship between Product Quality and Purchase Decision

H2o: There is no relationship between Better Fuel Economy and Purchase Decision

H2a: There is a relationship between Better Fuel Economy and Purchase Decision

H3o: There is no relationship between After Sale Service and Purchase Decision

H3a: There is a relationship between After Sale Service and Purchase Decision

H4o: There is no relationship between Battery Safety Record and Purchase Decision

H4a: There is a relationship between Battery Safety Record and Purchase Decision

H5o: There is no relationship between Promotion and Purchase Decision

H5a: There is a relationship between Promotion and Purchase Decision

H6o: There is no relationship between Location and Purchase Decision

H6a: There is a relationship between Location and Purchase Decision

H7o: There is no relationship between Brand Image and Purchase Decision

H7a: There is a relationship between Brand Image and Purchase Decision

H8o: There is no relationship between Product Design and Purchase Decision

H8a: There is a relationship between Product Design and Purchase Decision

H9o: There is no relationship between Price and Purchase Decision

H9a: There is a relationship between Price and Purchase Decision

H10o: There is no relationship between Warranty and Purchase Decision

H10a: There is a relationship between Warranty and Purchase Decision

H11o: There is no relationship between Demographic lifestyle and Purchase Decision

H11a: There is a relationship between Demographic lifestyle and Purchase Decision

2.4. Research Framework

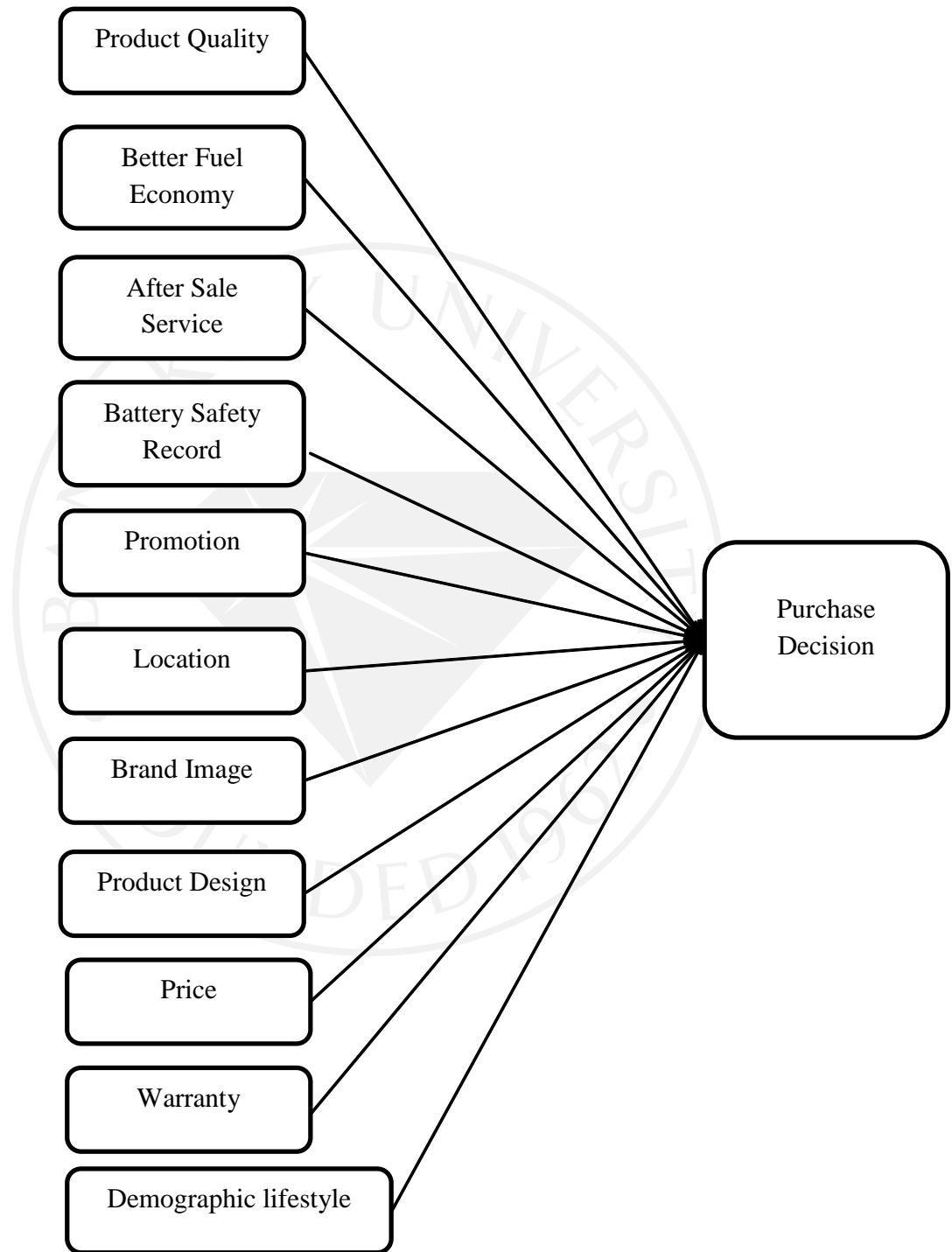


Figure 2.1: Research Framework

CHAPTER 3

RESEARCH METHODOLOGY

3.1. Research Strategy

Zikmund (2003) stated that descriptive research is created to explain the characteristics of a population or incident. Descriptive research is the process to define the answers for who, what, where, when, and how questions. In The SPSS process, there are 2 most appropriate factors for descriptive research, the first one is frequencies, and the second one is means, this was stated by Ticehurst *et al.* (2003). The descriptive research is used to test the relationship between customers' purchase decision and the factors that may affect it. The factors include are product quality, better fuel economy, after sale service, battery safety record, promotion, location, brand image and product design in Thailand.

Veal (2003) explained that the representative of population which is not a sample could be stated as biased. The procedures of selecting sample aimed to minimize bias which is in the sample.

The researchers used the sample survey method as the data collection process and preceded into the statistical test steps. And also used the survey method to distribute the composition of questionnaires to collect the information from the respondents. Zikmund (2003) stated that a survey is a technique of conducting research which could gather information from a sample of people by using questionnaires as a tool to collect information.

3.2 Sampling Design

3.2.1 Target Population

The researcher wanted to study about the relationship between product quality, better fuel economy, after sale service, battery safety record, promotion, location, brand image, product design, price, warranty, demographic lifestyle and customers' purchase intention to repurchase towards Honda in Thailand

The researchers select both male and female age between 18 to 60 and who have considered and also purchased Honda car as the target population.

3.2.2 Sample Unit

The questionnaires are distributed to customers who have considered and also purchased Honda car as the target sample unit in Bangkok.

3.2.3 Sample Size

According to business research evaluation, the first question that the researcher face which is "How large of the sample size?" Instinctively, the bigger size of sample is more correct research. Statistical phase, error of random sampling is fluctuated with sample size differential. Enlarge of sample size reduce wideness of reliance at a given the reliance level and error. It is not essential to select all components of the population to direct the precision research (Zikmund, 2010).

The researcher will determine sample size by applying an equation proposed by Pongwichai (2009) which is the adaptation of Yamane (1973) at confidences level of 95% and precision levels = 0.05

The total of sample size is

$$n = \frac{Z^2 p(1-p)}{E^2}$$

$$n = \frac{1.96^2 * 0.5(1-0.5)}{(0.05)^2}$$

n = 384.16 samples

≈385 samples

In the study, researcher decide to use 400 questionnaire in Honda service shop in Sukhumvit 66 Bangkok.

3.2.4 Sampling Procedure

The study, the researchers applied both probability and non-probability to find sampling unit. Zikmund (2003) stated that probability samples is the process of probability sampling which is randomly chosen and non-probability sampling is the probability of specific member of the population which is unknown information for the researchers. The sampling unit is an individual component or group of components point to the selection of the sample stated by Zikmund (2003).

The researchers conducted sampling procedure which is Convenience sampling. The details was stated by Zikmund (2003) which will be as the followings:

Convenience Sampling

Convenience sampling, this kind of sampling which from people who are convenient or available to answers questions from researchers. The researchers distributed questionnaires to 400 respondents.

3.3 Variables

The study is to determine the relationship between customers' purchase decision and the factors that may affect it. The independent variables include are p product quality, better fuel economy, after sale service, battery safety record, promotion, location, brand

image, product design, price, warranty, demographic lifestyle. And the dependent variable is customer's purchase decision.

3.4 Research Instrument

In the research, the questionnaire has been used to collect data for the following SPSS analysis.

Part1. Comprise of demographic and general information

Table 3.1: Level of Information Measurement and Criteria.

Variable	Level of Measurement	Criteria Classification
1. Gender	Nominal	1. Male 2. Female
2. Age	Ordinal	1 Between 20 to 30 Years 2 Between 31 and 40 Years 3 Between 41 and 50 Years 4 51Years and above5. Over 35 Years

(Continued)

Table 3.1 (Continued): Level of Information Measurement and Criteria.

2. Income	Ordinal	<ol style="list-style-type: none"> 1. 0—10,000 BAHT 2. 10,000—20,000BAHT 3. 20,000—35,000 BAHT 4. More than35, 000 BAHT
3. Are you prepared to buy a new car	Nominal	<ol style="list-style-type: none"> 1. Yes 2. No
5. What is in the mind of the price, before want buy a car	Ordinal	<ol style="list-style-type: none"> 1. 500,000—700,000 BAHT 2. 700,000—900,000 BAHT 3. 900,000—1,200,000 BAHT 4. 1,200,000—1,500,000 BAHT 5. 1,500,000—2,000,000 BAHT 6. More than 2,000,000 BAHT
6. Before buying a car, what is the most concerned factors	Nominal	<ol style="list-style-type: none"> 1. Price 2. Brand image 3. After sale service 4. Safety record 5. Interior & exterior 6. fuel economy 7. quality
7. Where would you like to buy a car	Nominal	<ol style="list-style-type: none"> 1. 4S store 2. Dealers 3. Online shopping 4. Other

(Continued)

Table 3.1 (Continued): Level of Information Measurement and Criteria.

8. The following what factors can affect your purchase intention	Nominal	<ol style="list-style-type: none"> 1. National policy 2. Oil price fluctuations 3. Sales promotion policy 4. Rising incomes 5. The convenience of payment by installments 6. Public parking facilities
9. In your budget, what additional features hope the car including	Nominal	<ol style="list-style-type: none"> 1. navigation 2. Push start 3. Parking sensor
10. What brand are you attention to buy	Nominal	<ol style="list-style-type: none"> 1. TOYOTA 2. HONDA 3. MAZDA 4. NISSAN 5. Mitsubishi 6. FORD
11. Where you get the information of car	Nominal	<ol style="list-style-type: none"> 1. A friend introduced 2 Advertising, television 3. The introduction of the sales staff 4. web query

(Continued)

Table 3.1 (Continued): Level of Information Measurement and Criteria.

12. What is the main reason of you buy this brand	Nominal	<ol style="list-style-type: none"> 1. High performance cost ratio [] 2. Cheap 3. The overall quality is reliable 4. Convenient maintenance and low cost 5. Reliable after-sales service
13. What is the main purpose of you to buy a car?	Nominal	<ol style="list-style-type: none"> 1. Instead of walking 2. Convenient for family travel 3. Business need 4. Improve the quality of life
14. How are you going to buy car	Nominal	<ol style="list-style-type: none"> 1. Full purchase 2. Payment by installment 3. From a friend to borrow money to buy
15. When buying a car, you want what kind of discount	Nominal	<ol style="list-style-type: none"> 1. Discount, return the cash 2. Provide additional quality service free of charge 3. gifts
16. How many dealers visit, before you buying the car	Nominal	<ol style="list-style-type: none"> 1. Go to the nearest dealer, purchase soon 2. 2—4 dealers, Comprehensive comparison 3. The more the better, Comprehensive comparison
17. What types of the car do you like	Nominal	<ol style="list-style-type: none"> 1. Small car 2. compact car 3. Luxury car 4. SUV

For part 2, all items were rated by respondents on a five-point Likert scale. Each questions scaled from Number 1 with the statement “Strongly Disagree” to number 5 with the statement “Strongly Agree”. The weight (score) are set in each level as followed;

Strongly Agree = 5 points

Somewhat Agree = 4 points

Neutral = 3 points

Somewhat Disagree = 2 points

Strongly Disagree = 1 point

3.5 Collection of Data

According to this study, researcher have decided to use primary data collected through self-administered questionnaires which distribute to customers of Honda car in Bangkok. Survey is a mean of using an appropriated questionnaire to gather information for a sample of population (Zikmund, 2003). Before interviewees do the questionnaires, the researcher asked them whether they are Honda’s customer. The survey questionnaires are distributed during first and second week of JUN 2015, at Honda service shop in Sukhumvit 66 Bangkok.

3.6 Reliability Analysis of Research Instrument

The researcher apply pilot test to examine the reliability of the questionnaire. The reliability test for this research is processed on computer program by using Cronbach’s alpha coefficient.

Table 3.2: Criteria of Reliability

Cronbach's Alpha Coefficient	Reliability Level	Desirability Level
0.80 – 1.00	Very High	Excellent
0.70 – 0.79	High	Good
0.50 – 0.69	Medium	Fair
0.30 – 0.49	Low	Poor
Less than 0.30	Very Low	Unacceptable

3.7 Statistical Treatment of Data

After the researchers have collected all the data, the researchers used the Statistical Package for the Social Sciences (SPSS) to analyze and summarize the data collected in data interpretation and hypothesis testing forms. There are 2 data analysis techniques applied in this study, which are Descriptive statistics and Pearson Correlation.

The descriptive analysis including frequency and percentage, were used in transforming the demographic profiles of respondents of term of 9 variables which are product quality, better fuel economy, after sale service, battery safety record, promotion, location, brand image and product design, customers' purchase decision, all the data were summarized and presented into the understandable format.

The researchers also applied Pearson Correlation for the hypothesis testing in this study. Pearson Correlation technique is a parametric technique that helps researchers to find the relationship between variables (Simon, 2005). The Pearson Correlation gives a measurement for the strength of association between 2 variables. The correlation

coefficient (r-value) is in a range of +1.0 to -1.0. There is a perfect positive linear association or negative linear association respectively. The level of strength of association between variables is shown in Table 3.2.

Table 3.3: R-value and measure the strength of association

Correlation(r)	Interpretation
0	No linear association
1	Perfect positive linear association
0.90 to 0.99	Very high positive correlation
0.70 to 0.89	High positive correlation
0.40 to 0.69	Medium positive correlation
0 to 0.39	Low positive correlation
-1	Perfect negative linear association
0 to -0.39	Low negative correlation
-0.40 to -0.69	Medium negative correlation
-0.70 to -0.89	High negative correlation
-0.90 to -0.99	Very high negative correlation

Chapter 4 Data Analysis

4.1 Descriptive Analysis

The following tables are the descriptive analysis of demographic characteristics which are the frequency and percentage distribution of respondent respectively. And tables also show the average mean and standard deviation of 11 variables.

Table 4.1: The Analysis of gender levels using Frequency and Percentage

		Gender			
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	male	194	48.5	48.5	48.5
	female	206	51.5	51.5	100.0
Total		400	100.0	100.0	

From Table 4.1 shows the gender of respondents in this research. It is viewed that among the 400 respondents, 194 respondents of the sample size are male and another 206 respondents are female. Therefore, there is a proportion 48.5% of male and 51.5% female respectively.

Table 4.2: The Analysis of age levels using Frequency and Percentage

		Age			
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Between 20 to 30 Years	120	30.0	30.0	30.0
	Between 31 and 40 Years	170	42.5	42.5	72.5
	Between 41 and 50 Years	84	21.0	21.0	93.5
	51Years and above	26	6.5	6.5	100.0
	Total	400	100.0	100.0	

From Table 4.2 shows the age of respondents in this research. It is viewed that among the 400 respondents, 120 (30%) respondents of the sample size are between 20 to 30 years. 170 (42.5%) respondents are between 31 and 40 years. 84 (21%) respondents are between 41 and 50 years. 26 (6.5%) respondents are 51Years and above.

Table 4.3: The Analysis of monthly income levels using Frequency and Percentage

		Monthly income			
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0—10,000 BAHT	56	14.0	14.0	14.0
	10,000—20,000BAHT	129	32.3	32.3	46.3
	20,000—35,000 BAHT	161	40.3	40.3	86.5
	More than35,000 BAHT	54	13.5	13.5	100.0
	Total	400	100.0	100.0	

From Table 4.3 shows the age of respondents in this research. It is viewed that among the 400 respondents, 56 (14%) respondents of the sample size are 0—10,000

BAHT. 129 (32.3%) respondents are 20,000—35,000 BAHT. 161 (40.3%) respondents are 20,000—35,000 BAHT. 54 (13.5%) respondents are More than 35, 000 BAHT.

Table 4.4: The Analysis of mind of price levels using Frequency and Percentage

		mind of price			
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	500,000—1,000,000 BAHT	52	13.0	13.0	13.0
	1,000,000—2,000,000 BAHT	95	23.8	23.8	36.8
	2,000,000—3,000,000 BAHT	197	49.3	49.3	86.0
	More than 3,000,000 BAHT	56	14.0	14.0	100.0
	Total	400	100.0	100.0	

From Table 4.4 shows the age of respondents in this research. It is viewed that among the 400 respondents, 52 (13%) respondents of the sample size are 500,000—1,000,000 BAHT. 95 (23.8%) respondents are 1,000,000—2,000,000 BAHT. 197 (49.3%) respondents are 2,000,000—3,000,000 BAHT. 56 (14%) respondents are More than 3,000,000 BAHT.

Table 4.5: The Analysis of where to buy levels using Frequency and Percentage

		where to buy			
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Online shopping	36	9.0	9.0	9.0
	Dealers	77	19.3	19.3	28.3
	4S store	218	54.5	54.5	82.8
	Other	69	17.3	17.3	100.0
	Total	400	100.0	100.0	

From Table 4.5 shows the age of respondents in this research. It is viewed that among the 400 respondents, 36 (9%) respondents of the sample size are Online shopping, 77 (19.3%) respondents are Dealers, 218 (54.5%) respondents are 4S store, 69 (17.3%) respondents are other.

Table 4.6: The Analysis of where get information levels using Frequency and Percentage

		where get information			
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	A friend introduced	26	6.5	6.5	6.5
	Advertising, television	81	20.3	20.3	26.8
	The introduction of the sales staff	231	57.8	57.8	84.5
	web query	62	15.5	15.5	100.0
	Total	400	100.0	100.0	

From Table 4.6 shows the age of respondents in this research. It is viewed that among the 400 respondents, 26 (6.5%) respondents of the sample size are A friend introduced. 81 (20.3%) respondents are Advertising, television. 231 (57.8%) respondents are the introduction of the sales staff. 62 (15.5%) respondents are web query.

Table 4.7: The Analysis of purpose to buy levels using Frequency and Percentage

		purpose to buy			
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Instead of walking	38	9.5	9.5	9.5
	Convenient for family travel	93	23.3	23.3	32.8
	Business need	201	50.3	50.3	83.0
	Improve the quality of life	68	17.0	17.0	100.0
	Total	400	100.0	100.0	

From Table 4.7 shows the age of respondents in this research. It is viewed that among the 400 respondents, 38 (9.5%) respondents of the sample size are Instead of walking. 93 (23.3%) respondents are Convenient for family travel. 201 (50.3%) respondents are Business need. 68 (17%) respondents are Improve the quality of life.

Table 4.8: The Analysis of how to buy levels using Frequency and Percentage

		how to buy			
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Full purchase	32	8.0	8.0	8.0
	Payment by installment	86	21.5	21.5	29.5
	From a friend to borrow money to buy	224	56.0	56.0	85.5
	From bank to borrow money to buy	58	14.5	14.5	100.0
	Total	400	100.0	100.0	

From Table 4.8 shows the age of respondents in this research. It is viewed that among the 400 respondents, 32 (8%) respondents of the sample size are Full purchase. 86 (21.5%) respondents are Payment by installment. 224 (56%) respondents are From a friend to borrow money to buy. 58 (14.5%) respondents are I From bank to borrow money to buy.

Table 4.9: The Analysis of what type to buy levels using Frequency and Percentage

		what type to buy			
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Small car	26	6.5	6.5	6.5
	compact car	85	21.3	21.3	27.8
	Luxury car	228	57.0	57.0	84.8
	SUV	61	15.3	15.3	100.0
	Total	400	100.0	100.0	

From Table 4.9 shows the age of respondents in this research. It is viewed that among the 400 respondents, 32 (8%) respondents of the sample size are Full purchase. 86 (21.5%) respondents are Payment by installment. 224 (56%) respondents are From a friend to borrow money to buy. 58 (14.5%) respondents are I From bank to borrow money to buy.

Table 4.10: The Analysis of brand choice levels using Frequency and Percentage

		brand choice			
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	TOYOTA	60	15.0	15.0	15.0
	HONDA	118	29.5	29.5	44.5
	NISSAN	222	55.5	55.5	100.0
	Total	400	100.0	100.0	

From Table 4.10 shows the age of respondents in this research. It is viewed that among the 400 respondents, 60 (15%) respondents of the sample size are TOYOTA. 118 (29.5%) respondents are HONDA. 222 (55.5%) respondents are NISSAN.

Table 4.11: The Analysis of Product Quality using Mean and Standard Deviation

Descriptive Statistics					
	N	Minimum	Maximum	Mean	Std. Deviation
The position of seat is very comfortable	400	2	5	4.06	.723
The visibility for the driver's seat is good	400	2	5	4.05	.734
The Honda/Toyota/Nissan car is stable at high speeds	400	2	5	4.04	.741
The Honda/Toyota/Nissan car stop smoothly when apply the brakes	400	2	5	4.06	.726
Valid N (listwise)	400				

Table 4.12: The Analysis of Better Fuel Economy using Mean and Standard Deviation

Descriptive Statistics					
	N	Minimum	Maximum	Mean	Std. Deviation
Honda/Toyota/Nissan car can help to save fuel cost	400	3	5	4.07	.709
Honda/Toyota/Nissan car can provide new technology of hybrid	400	3	5	4.06	.716
Drive Honda/Toyota/Nissan car can get significantly less than 25 miles to the gallon	400	2	5	4.04	.738
Valid N (listwise)	400				

Table 4.13: The Analysis of After Sale Service using Mean and Standard Deviation

Descriptive Statistics					
	N	Minimum	Maximum	Mean	Std. Deviation
I can get the repair service immediately after I request	400	2	5	4.07	.712
I can get the insurance service immediately after I need	400	3	5	4.06	.713
Employees are always willing to help me.	400	3	5	4.08	.703
Employees made me feel comfortable in dealing with them.	400	3	5	4.07	.712
Valid N (listwise)	400				

Table 4.14: The Analysis of Battery Safety Record using Mean and Standard Deviation

Descriptive Statistics					
	N	Minimum	Maximum	Mean	Std. Deviation
when battery is low, the system of Honda/Toyota/Nissan car can inform me immediately	400	2	5	4.04	.731
There is extra battery can be used after battery broken	400	3	5	4.13	.710
The battery can provide enough power when I request	400	3	5	4.11	.707
Valid N (listwise)	400				

Table 4.15: The Analysis of Promotion using Mean and Standard Deviation

Descriptive Statistics					
	N	Minimum	Maximum	Mean	Std. Deviation
Honda/Toyota/Nissan has attractive sales promotion than other brands	400	3	5	4.11	.709
Honda/Toyota/Nissan has more monetary sales promotion such as discounts and coups	400	3	5	4.07	.700
Honda/Toyota/Nissan has more non-monetary sales promotion such as sweepstakes, free gifts and loyalty programmers	400	3	5	4.09	.695
Valid N (listwise)	400				

Table 4.16: The Analysis of Location using Mean and Standard Deviation

Descriptive Statistics					
	N	Minimum	Maximum	Mean	Std. Deviation
It's very easy to find store of Honda/Toyota/Nissan when I want to purchase car	400	3	5	4.07	.716
There are service centers of Honda/Toyota/Nissan in every region of Bangkok	400	2	5	4.06	.720
Valid N (listwise)	400				

Table 4.17: The Analysis of Brand Image using Mean and Standard Deviation

Descriptive Statistics					
	N	Minimum	Maximum	Mean	Std. Deviation
I have a clear understanding on the brand of Honda/Toyota/Nissan	400	3	5	4.08	.696
Honda/Toyota/Nissan comes to my mind at first when mentions automobile industry.	400	2	5	4.06	.743
The brand of Honda/Toyota/Nissan is outstanding and gives me a good impression.	400	2	5	4.05	.734
Valid N (listwise)	400				

Table 4.18: The Analysis of Product design using Mean and Standard Deviation

Descriptive Statistics					
	N	Minimum	Maximum	Mean	Std. Deviation
The design of Honda/Toyota/Nissan is match my fashion attitude	400	2	5	4.08	.722
I prefer the design of Honda/Toyota/Nissan compare to other brand of automobiles	400	2	5	4.05	.745
Valid N (listwise)	400				

Table 4.19: The Analysis of Price using Mean and Standard Deviation

Descriptive Statistics					
	N	Minimum	Maximum	Mean	Std. Deviation
The price of Honda/Toyota/Nissan is acceptable	400	2	5	4.07	.708
The price of Honda/Toyota/Nissan cloth is affordable	400	2	5	4.06	.733
Valid N (listwise)	400				

Table 4.20: The Analysis of Warranty using Mean and Standard Deviation

Descriptive Statistics					
	N	Minimum	Maximum	Mean	Std. Deviation
The warranty is trustable of Honda/Toyota/Nissan	400	2	5	4.06	.726
Honda/Toyota/Nissan Service Center can provide good warranty for me, when I contact it.	400	2	5	4.05	.754
Valid N (listwise)	400				

Table 4.21: The Analysis of Demographic lifestyle using Mean and Standard Deviation

Descriptive Statistics					
	N	Minimum	Maximum	Mean	Std. Deviation
The feature of Honda/Toyota/Nissan can match my lifestyle of Thailand.	400	2	5	4.06	.726
The function of Honda/Toyota/Nissan is easy to use under my lifestyle.	400	2	5	4.06	.723
Valid N (listwise)	400				

Table 4.22: The Analysis of Purchase Decision using Mean and Standard Deviation

Descriptive Statistics					
	N	Minimum	Maximum	Mean	Std. Deviation
I will purchase Honda/Toyota/Nissan car when my budget is allowed	400	2	5	4.06	.720
Honda/Toyota/Nissan car is my first choice	400	2	5	4.06	.723
I would encourage others to purchase Honda/Toyota/Nissan car	400	2	5	4.05	.734
Valid N (listwise)	400				

4.2 Variables analysis

Researcher has done MLR (Multinomial Logistic Regression) to see which independent variables have significantly impact on brand choice. The result shows that independent and dependent variables are significant.

Table 4.23: Model Fitting Information

Model Fitting Information

Model	Model Fitting Criteria	Likelihood Ratio Tests		
	-2 Log Likelihood	Chi-Square	df	Sig.
Intercept Only	510.681			
Final	366.819	143.862	118	.053

Table 4.24: Likelihood Ratio Tests

Likelihood Ratio Tests

Effect	Model Fitting Criteria	Likelihood Ratio Tests		
	-2 Log Likelihood of Reduced Model	Chi-Square	df	Sig.
Intercept	366.819 ^a	.000	0	.

(Continued)

Table 4.24(Continued): Likelihood Ratio Tests

BSR	397.788	30.969	12	.002
PQ	383.539	16.720	14	.271
BFE	385.809	18.990	12	.089
ASS	381.750	14.931	14	.383
PR	379.233	12.414	12	.413
LOC	384.216	17.397	8	.026
BI	392.674	25.855	14	.027
PD	380.838	14.019	12	.300
PRCE	374.075	7.256	6	.298
WARRANT Y	381.691	14.872	6	.021

The chi-square statistic is the difference in -2 log-likelihoods between the final model and a reduced model. The reduced model is formed by omitting an effect from the final model. The null hypothesis is that all parameters of that effect are 0.

a. This reduced model is equivalent to the final model because omitting the effect does not increase the degrees of freedom.

Researcher has done MLR of personal info on brand choice reveals a number of significant variables including:

Table 4.25: Model Fitting Information

Model Fitting Information

Model	Model Fitting Criteria	Likelihood Ratio Tests		
	-2 Log Likelihood	Chi-Square	df	Sig.
Intercept Only	768.627			
Final	654.359	114.268	50	.000

Table 4.26: Likelihood Ratio Tests

Likelihood Ratio Tests

Effect	Model Fitting Criteria	Likelihood Ratio Tests		
	-2 Log Likelihood of Reduced Model	Chi-Square	df	Sig.
Intercept	654.359 ^a	.000	0	.
sex	655.752	1.393	2	.498
age	663.246	8.888	6	.180
income	659.637	5.278	6	.509
price	669.328	14.969	6	.020
place	658.603	4.244	6	.644

(Continued)

Table 4.26 (Continued): Likelihood Ratio Tests

information	668.228	13.870	6	.031
purpose	673.017	18.659	6	.005
payment	656.828	2.469	6	.872
type	711.350	56.991	6	.000

The chi-square statistic is the difference in -2 log-likelihoods between the final model and a reduced model. The reduced model is formed by omitting an effect from the final model. The null hypothesis is that all parameters of that effect are 0.

a. This reduced model is equivalent to the final model because omitting the effect does not increase the degrees of freedom.

For parameter estimates, researcher found the followings:

- Age 1 & 2 are significant factors in choosing Toyota over Nissan
- For 100000-200000 price range (price2), customer will choose Toyota over Nissan
- With the introduction of sales staff (info30, customer would choose Toyota over Nissan
- Between Honda & Nissan, there are no significant variables of choice

Table 4.27: Parameter Estimates

brand choice ^a	B	df	Sig.	Exp(B)	95% Confidence Interval for Exp(B)	
					Lower Bound	Upper Bound
TOYOTA [PQ1=2]	16.255	1	.999	11468026. 240	.000	. ^b
[PQ1=3]	15.526	1	.985	5531175.9 48	.000	. ^b
[PQ1=4]	-1.056	1	.529	.348	.013	9.345
[PQ1=5]	-.279	1	.742	.756	.143	3.999
[PQ2=2]	-16.982	1	.998	4.216E-8	.000	. ^b
[PQ2=3]	-46.112	1	.993	9.416E-21	.000	. ^b
[PQ2=4]	-16.069	1	.997	1.050E-7	.000	. ^b
[PQ2=5]	0 ^c	0	.	.	.	.
[PQ3=2]	-57.077	1	.993	1.628E-25	.000	. ^b
[PQ3=3]	17.016	1	.995	24537403. 939	.000	. ^b
[PQ3=4]	.132	1	.779	1.141	.455	2.860
[PQ3=5]	0 ^c	0	.	.	.	.
[PQ4=2]	11.719	1	.998	122927.86 3	.000	. ^b
[PQ4=3]	-15.561	1	.998	1.746E-7	.000	. ^b

(Continued)

Table 4.27 (Continued): Parameter Estimates

[PQ4=4]	-.091	1	.955	.913	.040	20.703
[PQ4=5]	0 ^c	0	.	.	.	.
[BFE1=3]	14.100	1	.994	1329504.6 22	.000	. ^b
[BFE1=4]	-.686	1	.105	.504	.220	1.154
[BFE1=5]	0 ^c	0	.	.	.	.
[BFE2=3]	2.167	1	.999	8.734	.000	. ^b
[BFE2=4]	0 ^c	0	.	.	.	.
[BFE2=5]	0 ^c	0	.	.	.	.
[BFE3=2]	1.097	1	1.000	2.995	.000	. ^b
[BFE3=3]	-16.586	1	.995	6.265E-8	.000	. ^b
[BFE3=4]	0 ^c	0	.	.	.	.
[BFE3=5]	0 ^c	0	.	.	.	.
[ASS1=2]	0 ^c	0	.	.	.	.
[ASS1=3]	15.711	1	.994	6658226.3 64	.000	. ^b
[ASS1=4]	-.045	1	.915	.956	.414	2.204
[ASS1=5]	0 ^c	0	.	.	.	.
[ASS2=3]	-30.584	1	.992	5.216E-14	.000	. ^b
[ASS2=4]	0 ^c	0	.	.	.	.

(Continued)

Table 4.27 (Continued): Parameter Estimates

[ASS2=5]	0 ^c	0	.	.	.	.
[ASS3=3]	45.584	1	.993	626715921 299565450 00.000	.000	. ^b
[ASS3=4]	15.289	1	.997	4362382.7 90	.000	. ^b
[ASS3=5]	0 ^c	0	.	.	.	.
[ASS4=3]	.817	1	.143	2.264	.759	6.755
[ASS4=4]	.068	1	.881	1.070	.443	2.586
[ASS4=5]	0 ^c	0	.	.	.	.
[BSR1=2]	-2.091	1	1.000	.124	.000	. ^b
[BSR1=3]	16.732	1	.995	18472853. 451	.000	. ^b
[BSR1=4]	0 ^c	0	.	.	.	.
[BSR1=5]	0 ^c	0	.	.	.	.
[BSR2=3]	12.844	1	.997	378415.43 0	.000	. ^b
[BSR2=4]	-1.175	1	.454	.309	.014	6.684
[BSR2=5]	0 ^c	0	.	.	.	.
[BSR3=3]	0 ^c	0	.	.	.	.
[BSR3=4]	0 ^c	0	.	.	.	.
[BSR3=5]	0 ^c	0	.	.	.	.

(Continued)

Table 4.27 (Continued): Parameter Estimates

[PR1=3]	0 ^c	0	.	.	.	.
[PR1=4]	0 ^c	0	.	.	.	.
[PR1=5]	0 ^c	0	.	.	.	.
[PR2=3]	0 ^c	0	.	.	.	.
[PR2=4]	0 ^c	0	.	.	.	.
[PR2=5]	0 ^c	0	.	.	.	.
[PR3=3]	0 ^c	0	.	.	.	.
[PR3=4]	0 ^c	0	.	.	.	.
[PR3=5]	0 ^c	0	.	.	.	.
[LOCATI ON1=3]	0 ^c	0	.	.	.	.
[LOCATI ON1=4]	0 ^c	0	.	.	.	.
[LOCATI ON1=5]	0 ^c	0	.	.	.	.
[LOCATI ON2=2]	0 ^c	0	.	.	.	.
[LOCATI ON2=3]	-16.269	1	.994	8.597E-8	.000	. ^b
[LOCATI ON2=4]	0 ^c	0	.	.	.	.

(Continued)

Table 4.27 (Continued): Parameter Estimates

[LOCATI ON2=5]	0 ^c	0	.	.	.	.
[BI1=3]	0 ^c	0	.	.	.	.
[BI1=4]	0 ^c	0	.	.	.	.
[BI1=5]	0 ^c	0	.	.	.	.
[BI2=2]	0 ^c	0	.	.	.	.
[BI2=3]	-16.758	1	.984	5.275E-8	.000	. ^b
[BI2=4]	.167	1	.914	1.181	.058	24.001
[BI2=5]	0 ^c	0	.	.	.	.
[BI3=2]	0 ^c	0	.	.	.	.
[BI3=3]	0 ^c	0	.	.	.	.
[BI3=4]	0 ^c	0	.	.	.	.
[BI3=5]	0 ^c	0	.	.	.	.
[PDN1=2]	0 ^c	0	.	.	.	.
[PDN1=3]	.631	1	.320	1.880	.542	6.520
[PDN1=4]	.793	1	.081	2.210	.906	5.391
[PDN1=5]	0 ^c	0	.	.	.	.
[PDN2=2]	0 ^c	0	.	.	.	.
[PDN2=3]	0 ^c	0	.	.	.	.
[PDN2=4]	0 ^c	0	.	.	.	.

(Continued)

Table 4.27(Continued): Parameter Estimates

[PDN2=5]	0 ^c	0	.	.	.	.
[PRICE1 =2]	0 ^c	0	.	.	.	.
[PRICE1 =3]	0 ^c	0	.	.	.	.
[PRICE1 =4]	0 ^c	0	.	.	.	.
[PRICE1 =5]	0 ^c	0	.	.	.	.
[PRICE2 =2]	0 ^c	0	.	.	.	.
[PRICE2 =3]	0 ^c	0	.	.	.	.
[PRICE2 =4]	0 ^c	0	.	.	.	.
[PRICE2 =5]	0 ^c	0	.	.	.	.
[WARRA NTY1=2]	0 ^c	0	.	.	.	.
[WARRA NTY1=3]	0 ^c	0	.	.	.	.
[WARRA NTY1=4]	0 ^c	0	.	.	.	.

(Continued)

Table 4.27(Continued): Parameter Estimates

	[WARRA NTY1=5]	0 ^c	0	.	.	.	.
	[WARRA NTY2=2]	0 ^c	0	.	.	.	.
	[WARRA NTY2=3]	0 ^c	0	.	.	.	.
	[WARRA NTY2=4]	0 ^c	0	.	.	.	.
	[WARRA NTY2=5]	0 ^c	0	.	.	.	.
	[DL1=2]	0 ^c	0	.	.	.	.
	[DL1=3]	0 ^c	0	.	.	.	.
	[DL1=4]	0 ^c	0	.	.	.	.
	[DL1=5]	0 ^c	0	.	.	.	.
	[DL2=2]	0 ^c	0	.	.	.	.
	[DL2=3]	0 ^c	0	.	.	.	.
	[DL2=4]	0 ^c	0	.	.	.	.
	[DL2=5]	0 ^c	0	.	.	.	.
HONDA	[PQ1=2]	-46.260	1	.995	8.120E-21	.000	. ^b
	[PQ1=3]	.343	1	1.000	1.409	.000	. ^b
	[PQ1=4]	-14.089	1	.987	7.606E-7	.000	. ^b

(Continued)

Table 4.27(Continued): Parameter Estimates

[PQ1=5]	-.777	1	.231	.460	.129	1.640
[PQ2=2]	42.018	1	.995	177056206 471831296 0.000	.000	. ^b
[PQ2=3]	-32.139	1	.982	1.102E-14	.000	. ^b
[PQ2=4]	-2.798	1	.000	.061	.032	.117
[PQ2=5]	0 ^c	0	.	.	.	.
[PQ3=2]	-72.069	1	.987	5.020E-32	.000	. ^b
[PQ3=3]	17.243	1	.989	30797408. 806	.000	. ^b
[PQ3=4]	.365	1	.268	1.441	.755	2.753
[PQ3=5]	0 ^c	0	.	.	.	.
[PQ4=2]	-28.063	1	.995	6.493E-13	.000	. ^b
[PQ4=3]	-56.995	1	.987	1.767E-25	.000	. ^b
[PQ4=4]	-13.108	1	.989	2.030E-6	.000	. ^b
[PQ4=5]	0 ^c	0	.	.	.	.
[BFE1=3]	13.270	1	.994	579644.88 3	.000	. ^b
[BFE1=4]	-.298	1	.355	.743	.395	1.396
[BFE1=5]	0 ^c	0	.	.	.	.

(Continued)

Table 4.27(Continued): Parameter Estimates

[BFE2=3]	29.458	1	.984	621614411 2050.009	.000	.b
[BFE2=4]	0 ^c	0	.	.	.	.
[BFE2=5]	0 ^c	0	.	.	.	.
[BFE3=2]	39.909	1	.993	215000430 988747584 .000	.000	.b
[BFE3=3]	-16.911	1	.989	4.524E-8	.000	.b
[BFE3=4]	0 ^c	0	.	.	.	.
[BFE3=5]	0 ^c	0	.	.	.	.
[ASS1=2]	0 ^c	0	.	.	.	.
[ASS1=3]	14.976	1	.992	3191288.8 76	.000	.b
[ASS1=4]	-.278	1	.380	.757	.407	1.409
[ASS1=5]	0 ^c	0	.	.	.	.
[ASS2=3]	-43.876	1	.981	8.804E-20	.000	.b
[ASS2=4]	0 ^c	0	.	.	.	.
[ASS2=5]	0 ^c	0	.	.	.	.
[ASS3=3]	31.752	1	.983	615990692 83195.190	.000	.b

(Continued)

Table 4.27(Continued): Parameter Estimates

[ASS3=4]	2.376	1	.	10.760	10.760	10.760
[ASS3=5]	0 ^c	0	.	.	.	.
[ASS4=3]	.163	1	.681	1.178	.540	2.566
[ASS4=4]	-.069	1	.826	.934	.505	1.726
[ASS4=5]	0 ^c	0	.	.	.	.
[BSR1=2]	14.136	1	.997	1378273.4 54	.000	. ^b
[BSR1=3]	30.320	1	.988	147170737 95319.486	.000	. ^b
[BSR1=4]	0 ^c	0	.	.	.	.
[BSR1=5]	0 ^c	0	.	.	.	.
[BSR2=3]	27.784	1	.991	116521610 2863.962	.000	. ^b
[BSR2=4]	13.518	1	.988	742638.82 9	.000	. ^b
[BSR2=5]	0 ^c	0	.	.	.	.
[BSR3=3]	0 ^c	0	.	.	.	.
[BSR3=4]	0 ^c	0	.	.	.	.
[BSR3=5]	0 ^c	0	.	.	.	.
[PR1=3]	0 ^c	0	.	.	.	.
[PR1=4]	0 ^c	0	.	.	.	.

(Continued)

Table 4.27(Continued): Parameter Estimates

[PR1=5]	0 ^c	0	.	.	.	.
[PR2=3]	0 ^c	0	.	.	.	.
[PR2=4]	0 ^c	0	.	.	.	.
[PR2=5]	0 ^c	0	.	.	.	.
[PR3=3]	0 ^c	0	.	.	.	.
[PR3=4]	0 ^c	0	.	.	.	.
[PR3=5]	0 ^c	0	.	.	.	.
[LOCATI ON1=3]	0 ^c	0	.	.	.	.
[LOCATI ON1=4]	0 ^c	0	.	.	.	.
[LOCATI ON1=5]	0 ^c	0	.	.	.	.
[LOCATI ON2=2]	0 ^c	0	.	.	.	.
[LOCATI ON2=3]	-15.299	1	.991	2.269E-7	.000	. ^b
[LOCATI ON2=4]	0 ^c	0	.	.	.	.
[LOCATI ON2=5]	0 ^c	0	.	.	.	.
[B1=3]	0 ^c	0	.	.	.	.

(Continued)

Table 4.27(Continued): Parameter Estimates

[B1=4]	0 ^c	0	.	.	.	.
[B1=5]	0 ^c	0	.	.	.	.
[B2=2]	0 ^c	0	.	.	.	.
[B2=3]	-1.319	1	.999	.267	.000	. ^b
[B2=4]	13.685	1	.987	877776.12 1	.000	. ^b
[B2=5]	0 ^c	0	.	.	.	.
[B3=2]	0 ^c	0	.	.	.	.
[B3=3]	0 ^c	0	.	.	.	.
[B3=4]	0 ^c	0	.	.	.	.
[B3=5]	0 ^c	0	.	.	.	.
[PDN1=2]	0 ^c	0	.	.	.	.
[PDN1=3]	.415	1	.311	1.514	.679	3.376
[PDN1=4]	.189	1	.557	1.208	.643	2.270
[PDN1=5]	0 ^c	0	.	.	.	.
[PDN2=2]	0 ^c	0	.	.	.	.
[PDN2=3]	0 ^c	0	.	.	.	.
[PDN2=4]	0 ^c	0	.	.	.	.
[PDN2=5]	0 ^c	0	.	.	.	.

(Continued)

Table 4.27(Continued): Parameter Estimates

[PRICE1 =2]	0 ^c	0	.	.	.	.
[PRICE1 =3]	0 ^c	0	.	.	.	.
[PRICE1 =4]	0 ^c	0	.	.	.	.
[PRICE1 =5]	0 ^c	0	.	.	.	.
[PRICE2 =2]	0 ^c	0	.	.	.	.
[PRICE2 =3]	0 ^c	0	.	.	.	.
[PRICE2 =4]	0 ^c	0	.	.	.	.
[PRICE2 =5]	0 ^c	0	.	.	.	.
[WARRA NTY1=2]	0 ^c	0	.	.	.	.
[WARRA NTY1=3]	0 ^c	0	.	.	.	.
[WARRA NTY1=4]	0 ^c	0	.	.	.	.
[WARRA NTY1=5]	0 ^c	0	.	.	.	.

(Continued)

Table 4.27(Continued): Parameter Estimates

[WARRA NTY2=2]	0 ^c	0	.	.	.	.
[WARRA NTY2=3]	0 ^c	0	.	.	.	.
[WARRA NTY2=4]	0 ^c	0	.	.	.	.
[WARRA NTY2=5]	0 ^c	0	.	.	.	.
[DL1=2]	0 ^c	0	.	.	.	.
[DL1=3]	0 ^c	0	.	.	.	.
[DL1=4]	0 ^c	0	.	.	.	.
[DL1=5]	0 ^c	0	.	.	.	.
[DL2=2]	0 ^c	0	.	.	.	.
[DL2=3]	0 ^c	0	.	.	.	.
[DL2=4]	0 ^c	0	.	.	.	.
[DL2=5]	0 ^c	0	.	.	.	.

Since only p-value of PQ2 is less than .05, therefore Beta of PQ2 is significant. As a result, we can reject H^1_0 : beta PQ1-4=0 and accept H^1_a : at least one of beta PQ1-4 is not equal to 0 (i.e. Beta of PQ2). That means, of all independent variables, only product quality significantly influences customer's brand choice decision in choosing HONDA over NISSAN.

Because no p-values of all other independent variables' beta are less than .05, therefore we cannot reject any other hypotheses.

Table 4.28: brand choice * I will purchase Honda/Toyota/Nissan car when my budget is allowed Crosstabulation

**brand choice * I will purchase Honda/Toyota/Nissan car when my budget is allowed
Crosstabulation**

			I will purchase Honda/Toyota/Nissan car when my budget is allowed				Total
			slightly disagree	moderate	slightly agree	strongly agree	
brand choice	TOYOTA	Count	0	11	24	25	60
		% within brand choice	0.0%	18.3%	40.0%	41.7%	100.0%
	HONDA	Count	0	29	57	32	118
		% within brand choice	0.0%	24.6%	48.3%	27.1%	100.0%
	NISSAN	Count	2	46	117	57	222
		% within brand choice	0.9%	20.7%	52.7%	25.7%	100.0%
Total		Count	2	86	198	114	400
		% within brand choice	0.5%	21.5%	49.5%	28.5%	100.0%

For Toyota, more than 80% agree that they will purchase the car given the budget (Honda 75%, Nissan 77%). However, for those who agree to purchase the car given if they have budget, more than 50% are Nissan customer.

Table 4.29: brand choice * Honda/Toyota/Nissan car is my first choice Crosstabulation

brand choice * Honda/Toyota/Nissan car is my first choice Crosstabulation

			Honda/Toyota/Nissan car is my first choice				Total
			slightly disagree	moderate	slightly agree	strongly agree	
brand choice	TOYOTA	Count	2	12	22	24	60
		% within brand choice	3.3%	20.0%	36.7%	40.0%	100.0%
	HONDA	Count	0	23	66	29	118
		% within brand choice	0.0%	19.5%	55.9%	24.6%	100.0%
	NISSAN	Count	0	53	108	61	222
		% within brand choice	0.0%	23.9%	48.6%	27.5%	100.0%
Total		Count	2	88	196	114	400
		% within brand choice	0.5%	22.0%	49.0%	28.5%	100.0%

40% of customer said that Toyota is their first choice compared to only 25% & 27% for Honda & Nissan.

Table 4.30: brand choice * I would encourage others to purchase Honda/Toyota/Nissan car Crosstabulation

**brand choice * I would encourage others to purchase Honda/Toyota/Nissan car
Crosstabulation**

			I would encourage others to purchase Honda/Toyota/Nissan car				Total
			slightly disagree	moderate	slightly agree	strongly agree	
brand choice	TOYOTA	Count	2	10	23	25	60
		% within brand choice	3.3%	16.7%	38.3%	41.7%	100.0%
	HONDA	Count	1	27	58	32	118
		% within brand choice	0.8%	22.9%	49.2%	27.1%	100.0%
	NISSAN	Count	1	49	115	57	222
		% within brand choice	0.5%	22.1%	51.8%	25.7%	100.0%
Total		Count	4	86	196	114	400
		% within brand choice	1.0%	21.5%	49.0%	28.5%	100.0%

40% of customer said that they would encourage others to purchase Toyota.

Table 4.31: brand choice * Gender Crosstabulation

brand choice * Gender Crosstabulation

		Gender		Total
		male	female	
brand choice TOYOTA	Count	28	32	60
	% within brand choice	46.7%	53.3%	100.0%
	% within Gender	14.4%	15.5%	15.0%
HONDA	Count	55	63	118
	% within brand choice	46.6%	53.4%	100.0%
	% within Gender	28.4%	30.6%	29.5%
NISSAN	Count	111	111	222
	% within brand choice	50.0%	50.0%	100.0%
	% within Gender	57.2%	53.9%	55.5%
Total	Count	194	206	400
	% within brand choice	48.5%	51.5%	100.0%
	% within Gender	100.0%	100.0%	100.0%

Female slightly prefer Toyota (53%) & Honda (53%) over Nissan. However, Nissan dominate in both male (57%) & female (54%) segments.

Table 4.32: brand choice * Age Crosstabulation

brand choice * Age Crosstabulation

			Age				Total
			Between 20 to 30 Years	Between 31 and 40 Years	Between 41 and 50 Years	51Years and above	
brand choice	TOYOTA	Count	19	28	11	2	60
		% within brand choice	31.7%	46.7%	18.3%	3.3%	100.0%
	HONDA	Count	38	54	20	6	118
		% within brand choice	32.2%	45.8%	16.9%	5.1%	100.0%
	NISSAN	Count	63	88	53	18	222
		% within brand choice	28.4%	39.6%	23.9%	8.1%	100.0%
Total		Count	120	170	84	26	400
		% within brand choice	30.0%	42.5%	21.0%	6.5%	100.0%

The age between 31 and 40 years of customers more prefer to purchase TOYOTA (46.7%), HONDA (45.8%), NISSAN (39.6%).

Table 4.33: brand choice * Monthly income Crosstabulation

brand choice * Monthly income Crosstabulation

			Monthly income				Total
			0— 10,000 BAHT	10,000— 20,000BAHT	20,000— 35,000 BAHT	More than35, 000 BAHT	
brand choice	TOYOTA	Count	11	13	24	12	60
		% within brand choice	18.3%	21.7%	40.0%	20.0%	100.0%
	HONDA	Count	13	46	44	15	118
		% within brand choice	11.0%	39.0%	37.3%	12.7%	100.0%
	NISSAN	Count	32	70	93	27	222
		% within brand choice	14.4%	31.5%	41.9%	12.2%	100.0%
Total		Count	56	129	161	54	400
		% within brand choice	14.0%	32.3%	40.3%	13.5%	100.0%

Most customers who want to purchase TOYOTA (40.0%), HONDA (37.3%), NISSAN (41.9%) have monthly income level of 20,000—35,000 BAHT.

Table 4.34: brand choice * price in mind Crosstabulation

brand choice * price in mind Crosstabulation

			Expected Price in Mind				Total
			500,000 — 1,000,000 00 BAHT	1,000,000 — 2,000,000 BAHT	2,000,000 — 3,000,000 BAHT	More than 3,000,000 BAHT	
brand choice	TOYOTA	Count	12	6	30	12	60
		% within brand choice	20.0%	10.0%	50.0%	20.0%	100.0%
	HONDA	Count	15	33	57	13	118
		% within brand choice	12.7%	28.0%	48.3%	11.0%	100.0%
	NISSAN	Count	25	56	110	31	222
		% within brand choice	11.3%	25.2%	49.5%	14.0%	100.0%
Total		Count	52	95	197	56	400
		% within brand choice	13.0%	23.8%	49.3%	14.0%	100.0%

The majority customers can accept price of car between 2,000,000—3,000,000 BAHT around 50%.

Table 4.35: brand choice * where to buy Crosstabulation

brand choice * where to buy Crosstabulation

			Where to buy				Total
			Online shopping	Dealers	4S store	Other	
brand choice	TOYOTA	Count	6	9	30	15	60
	A	% within brand choice	10.0%	15.0%	50.0%	25.0%	100.0%
	HONDA	Count	10	20	68	20	118
		% within brand choice	8.5%	16.9%	57.6%	16.9%	100.0%
	NISSAN	Count	20	48	120	34	222
		% within brand choice	9.0%	21.6%	54.1%	15.3%	100.0%
Total		Count	36	77	218	69	400
		% within brand choice	9.0%	19.3%	54.5%	17.3%	100.0%

More than 50% of (Toyota, Honda, Nissan) customers purchased their cars from the 4S store.

Table 4.36: brand choice * where get information Crosstabulation

brand choice * where get information Crosstabulation

			where get information				Total
			A friend introduced	Advertising, television	The introduction of the sales staff	web query	
brand choice	TOYO TA	Count % Within brand choice	5 8.3%	15 25.0%	30 50.0%	10 16.7%	60 100.0%
	HONDA	Count % Within brand choice	4 3.4%	31 26.3%	62 52.5%	21 17.8%	118 100.0%
	NISSAN	Count % Within brand choice	17 7.7%	35 15.8%	139 62.6%	31 14.0%	222 100.0%
Total		Count % Within brand choice	26 6.5%	81 20.3%	231 57.8%	62 15.5%	400 100.0%

The customers who are more 50% get the information for purchasing cars from the introduction of the sales staff of TOYOTA, HONDA and NISSAN.

Table 4.37: brand choice * purpose to buy Crosstabulation

brand choice * purpose to buy Crosstabulation

			purpose to buy				Total
			Instead of walking	Convenient for family travel	Business need	Improve the quality of life	
brand choice	TOYO TA	Count	8	13	27	12	60
		% within brand choice	13.3%	21.7%	45.0%	20.0%	100.0%
	HONDA	Count	15	28	54	21	118
		% within brand choice	12.7%	23.7%	45.8%	17.8%	100.0%
	NISSAN	Count	15	52	120	35	222
		% within brand choice	6.8%	23.4%	54.1%	15.8%	100.0%
Total		Count	38	93	201	68	400
		% within brand choice	9.5%	23.3%	50.2%	17.0%	100.0%

The main reason that customer purchase TOYOTA, HONDA and NISSAN are for the business needs which has around 50%.

Table 4.38: Multinomial Logit Model for the all independent variables and dependent variable

Likelihood Ratio Tests				
Effect	Model Fitting Criteria	Likelihood Ratio Tests		
	-2 Log Likelihood of Reduced Model	Chi-Square	df	Sig.
Intercept	3.088 ^a	.000	0	.
MeanPQ	2.649 ^b	9.561	1	.028
MeanBFE	4.464 ^b	.	1	.
MeanASS	7.432 ^b	4.344	1	.000
MeanBSR	3.850 ^b	0.762	1	.005
MeanPR	4.811 ^b	1.723	1	.064
MeanLOCATION	8.819 ^b	5.731	1	.009
MeanBI	4.951 ^b	1.863	1	.000
MeanPDN	5.271 ^b	2.182	1	.000
MeanPRICE	5.708 ^b	.	1	.
MeanWARRANTY	4.317 ^b	.	1	.
MeanDL	7.078 ^b	3.990	1	.004

The results of all cross tabulation tables strongly support hypotheses that all variables included in the model have positively and linearly relationship with separately intention as shown below:

Table 4.39: Crosstabulation between Product Quality and Purchase Decision

MeanPQ * MeanPD Crosstabulation

Count

		MeanPD					Total	
		2.50	3.00	3.50	4.00	4.50		5.00
MeanPQ	3.00	0	1	0	1	0	0	2
	3.67	0	1	0	0	0	1	2
	4.00	0	0	0	0	0	1	1
	4.33	0	4	7	3	4	0	18
	4.67	0	1	14	4	6	5	30
	5.00	1	1	16	32	31	1	82
	5.33	1	3	18	27	26	7	82
	5.67	0	0	23	20	38	10	91
	6.00	0	2	8	17	22	7	56
	6.33	0	0	3	13	18	2	36
Total		2	13	89	117	145	34	400

Table 4.40: Crosstabulation between Better Fuel Economy and Purchase Decision

MeanBFE * MeanPD Crosstabulation

Count

		MeanPD					Total	
		2.50	3.00	3.50	4.00	4.50		5.00
MeanBFE	3.00	1	3	5	4	3	0	16
	3.33	1	4	16	14	5	4	44
	3.67	0	1	15	16	26	4	62
	4.00	0	2	19	30	36	4	91
	4.33	0	2	30	32	44	11	119
	4.67	0	1	4	17	26	10	58
	5.00	0	0	0	4	5	1	10
Total		2	13	89	117	145	34	400

Table 4.41: Crosstabulation between After Sale Service and Purchase Decision

MeanASS * MeanPD Crosstabulation

Count

		MeanPD						Total
		2.50	3.00	3.50	4.00	4.50	5.00	
MeanASS	3.00	0	1	0	0	0	1	2
	3.25	0	4	5	7	1	1	18
	3.50	1	2	11	8	8	2	32
	3.75	1	1	27	16	9	4	58
	4.00	0	1	29	35	41	4	110
	4.25	0	4	13	23	38	8	86
	4.50	0	0	3	20	41	10	74
	4.75	0	0	1	7	6	4	18
	5.00	0	0	0	1	1	0	2
Total		2	13	89	117	145	34	400

Table 4.42: Crosstabulation between Battery Safety Record and Purchase Decision

MeanBSR * MeanPD Crosstabulation

Count

		MeanPD						Total
		2.50	3.00	3.50	4.00	4.50	5.00	
MeanBSR	3.00	0	1	2	0	1	0	4
	3.33	0	4	12	14	14	2	46
	3.67	1	0	27	23	19	4	74
	4.00	0	3	18	20	26	5	72
	4.33	1	3	13	33	54	18	122
	4.67	0	2	17	27	26	4	76
	5.00	0	0	0	0	5	1	6
Total		2	13	89	117	145	34	400

Table 4.43: Crosstabulation between Promotion and Purchase Decision

MeanPR * MeanPD Crosstabulation

Count

		MeanPD						Total
		2.50	3.00	3.50	4.00	4.50	5.00	
MeanPR	3.00	0	4	7	1	3	1	16
	3.33	0	3	15	11	4	3	36
	3.67	2	0	18	18	18	3	59
	4.00	0	3	21	30	33	5	92
	4.33	0	2	23	30	54	14	123
	4.67	0	1	2	23	28	2	56
	5.00	0	0	3	4	5	6	18
Total		2	13	89	117	145	34	400

Table 4.44: Crosstabulation between Location and Purchase Decision

MeanLOCATION * MeanPD Crosstabulation

Count

		MeanPD						Total
		2.50	3.00	3.50	4.00	4.50	5.00	
MeanLOCATION	2.50	0	1	0	0	0	1	2
	3.00	1	5	40	23	8	5	82
	3.50	1	2	2	2	3	0	10
	4.00	0	4	36	56	80	14	190
	4.50	0	0	0	1	1	0	2
	5.00	0	1	11	35	53	14	114
Total		2	13	89	117	145	34	400

Table 4.45: Crosstabulation between Brand Image and Purchase Decision

MeanBI * MeanPD Crosstabulation

Count

		MeanPD					Total	
		2.50	3.00	3.50	4.00	4.50		5.00
MeanBI	2.67	0	0	1	1	0	0	2
	3.00	0	2	1	1	1	1	6
	3.33	0	4	9	15	8	3	39
	3.67	1	1	32	18	15	5	72
	4.00	0	3	25	25	33	6	92
	4.33	1	3	17	37	59	14	131
	4.67	0	0	4	18	23	3	48
	5.00	0	0	0	2	6	2	10
Total		2	13	89	117	145	34	400

Table 4.46: Crosstabulation between Product design and Purchase Decision

MeanPDN * MeanPD Crosstabulation

Count

		MeanPD					Total	
		2.50	3.00	3.50	4.00	4.50		5.00
MeanPDN	2.00	0	0	0	0	0	1	1
	2.50	1	0	1	1	1	0	4
	3.00	0	4	3	3	2	0	12
	3.50	1	3	67	18	13	6	108
	4.00	0	2	9	55	25	4	95
	4.50	0	4	7	36	99	14	160
	5.00	0	0	2	4	5	9	20
Total		2	13	89	117	145	34	400

Table 4.47: Crosstabulation between Price and Purchase Decision

MeanPRICE * MeanPD Crosstabulation

Count

		MeanPD					Total	
		2.50	3.00	3.50	4.00	4.50		5.00
MeanPRICE	1.50	0	1	2	9	3	2	17
	2.00	0	0	5	6	8	5	24
	2.50	0	0	0	8	3	1	12
	3.00	1	2	4	8	1	0	16
	3.50	1	5	28	18	24	3	79
	4.00	0	2	30	36	33	7	108
	4.50	0	3	20	25	59	7	114
	5.00	0	0	0	7	14	9	30
Total		2	13	89	117	145	34	400

Table 4.48: Crosstabulation between Warranty and Purchase Decision

MeanWARRANTY * MeanPD Crosstabulation

Count

		MeanPD					Total	
		2.50	3.00	3.50	4.00	4.50		5.00
MeanWARRANTY	2.00	1	0	0	0	0	0	1
	3.00	1	4	5	3	1	0	14
	3.50	0	4	37	31	17	7	96
	4.00	0	3	25	38	45	6	117
	4.50	0	2	20	39	68	15	144
	5.00	0	0	2	6	14	6	28
Total		2	13	89	117	145	34	400

Table 4.49: Crosstabulation between Demographic lifestyle and Purchase Decision

MeanDL * MeanPD Crosstabulation

Count

		MeanPD					Total	
		2.50	3.00	3.50	4.00	4.50		5.00
MeanDL	2.00	1	0	0	0	1	0	2
	2.50	0	0	0	0	1	0	1
	3.00	1	4	5	4	2	0	16
	3.50	0	4	35	27	20	11	97
	4.00	0	3	20	40	44	9	116
	4.50	0	2	25	38	63	12	140
	5.00	0	0	4	8	14	2	28
Total		2	13	89	117	145	34	400

4.3 Hypothesis testing

In the study, researchers tested the relationship between independent and dependent variables. After collecting data process, researchers managed data and analyzed by using SPSS program. There are 11 hypotheses in this research, researchers decided to use correlation analysis to test the relationship between two variables within each hypothesis. The data was collected by using questionnaires to measure as interval scale, and using Pearson correlation to use in this research.

H1o: There is no relationship between Product Quality and Purchase Decision

H1a: There is a relationship between Product Quality and Purchase Decision

Table 4.50: The Analysis of relation between Product Quality and Purchase Decision by using Pearson Product Moment Coefficient Correlation (Bivariate)

Correlations

		MeanPQ	MeanPD
MeanPQ	Pearson Correlation	1	.212**
	Sig. (2-tailed)		.000
	N	400	400
MeanPD	Pearson Correlation	.212**	1
	Sig. (2-tailed)	.000	
	N	400	400

** Correlation is significant at the 0.01 level (2-tailed).

As indicated in the Table 4.35, the result from this hypothesis indicated that the significant (2-tailed test) is equal 0.000 which lower than 0.01 ($0.001 < 0.01$). It means that null hypothesis was rejected at the 0.01 significant level. At 0.212, it means that there is a low positive relationship between product quality and purchase decision.

H2o: There is no relationship between Better Fuel Economy and Purchase Decision

H2a: There is a relationship between Better Fuel Economy and Purchase Decision

Table 4.51: The Analysis of relation between Better Fuel Economy and Purchase Decision by using Pearson Product Moment Coefficient Correlation (Bivariate)

Correlations

		MeanPD	MeanBFE
MeanPD	Pearson Correlation	1	.277**
	Sig. (2-tailed)		.000
	N	400	400
MeanBFE	Pearson Correlation	.277**	1
	Sig. (2-tailed)	.000	
	N	400	400

** Correlation is significant at the 0.01 level (2-tailed).

As indicated in the Table 4.36, the result from this hypothesis indicated that the significant (2-tailed test) is equal 0.000 which lower than 0.01 ($0.001 < 0.01$). It means that null hypothesis was rejected at the 0.01 significant level. At 0.277, it means that there is a low positive relationship between better fuel economy and purchase decision.

H3o: There is no relationship between After Sale Service and Purchase Decision

H3a: There is a relationship between After Sale Service and Purchase Decision

Table 4.52: The Analysis of relation between After Sale Service and Purchase Decision by using Pearson Product Moment Coefficient Correlation (Bivariate)

Correlations			
		MeanPD	MeanASS
MeanPD	Pearson Correlation	1	.359**
	Sig. (2-tailed)		.000
	N	400	400
MeanASS	Pearson Correlation	.359**	1
	Sig. (2-tailed)	.000	
	N	400	400

** . Correlation is significant at the 0.01 level (2-tailed).

As indicated in the Table 4.37, the result from this hypothesis indicated that the significant (2-tailed test) is equal 0.000 which lower than 0.01 ($0.001 < 0.01$). It means that null hypothesis was rejected at the 0.01 significant level. At 0.359, it means that there is a low positive relationship between after sale service and purchase decision.

H4o: There is no relationship between Battery Safety Record and Purchase Decision

H4a: There is a relationship between Battery Safety Record and Purchase Decision

Table 4.53: The Analysis of relation between Battery Safety Record and Purchase Decision by using Pearson Product Moment Coefficient Correlation (Bivariate)

		MeanPD	MeanBSR
MeanPD	Pearson Correlation	1	.188**
	Sig. (2-tailed)		.000
	N	400	400
MeanBSR	Pearson Correlation	.188**	1
	Sig. (2-tailed)	.000	
	N	400	400

** . Correlation is significant at the 0.01 level (2-tailed).

As indicated in the Table 4.38, the result from this hypothesis indicated that the significant (2-tailed test) is equal 0.000 which is lower than 0.01 ($0.001 < 0.01$). It means that null hypothesis was rejected at the 0.01 significant level. At 0.188, it means that there is a low positive relationship between battery safety record and purchase decision.

H5o: There is no relationship between Promotion and Purchase Decision

H5a: There is a relationship between Promotion and Purchase Decision

Table 4.54: The Analysis of relation between Promotion and Purchase Decision by using Pearson Product Moment Coefficient Correlation (Bivariate)

Correlations

		MeanPD	MeanPR
MeanPD	Pearson Correlation	1	.306**
	Sig. (2-tailed)		.000
	N	400	400
MeanPR	Pearson Correlation	.306**	1
	Sig. (2-tailed)	.000	
	N	400	400

** . Correlation is significant at the 0.01 level (2-tailed).

As indicated in the Table 4.39, the result from this hypothesis indicated that the significant (2-tailed test) is equal 0.000 which lower than 0.01 ($0.001 < 0.01$). It means that null hypothesis was rejected at the 0.01 significant level. At 0.306, it means that there is a low positive relationship between promotion and purchase decision.

H_{6o}: There is no relationship between Location and Purchase Decision

H_{6a}: There is a relationship between Location and Purchase Decision

Table 4.55: The Analysis of relation between Location and Purchase Decision by using Pearson Product Moment Coefficient Correlation (Bivariate)

Correlations

		MeanPD	MeanLOCATIO N
MeanPD	Pearson Correlation	1	.346**
	Sig. (2-tailed)		.000
	N	400	400
MeanLOCATION	Pearson Correlation	.346**	1
	Sig. (2-tailed)	.000	
	N	400	400

** Correlation is significant at the 0.01 level (2-tailed).

As indicated in the Table 4.40, the result from this hypothesis indicated that the significant (2-tailed test) is equal 0.000 which lower than 0.01 ($0.001 < 0.01$). It means that null hypothesis was rejected at the 0.01 significant level. At 0.346, it means that there is a low positive relationship between location and purchase decision.

H7o: There is no relationship between Brand Image and Purchase Decision

H7a: There is a relationship between Brand Image and Purchase Decision

Table 4.56: The Analysis of relation between Brand Image and Purchase Decision by using Pearson Product Moment Coefficient Correlation (Bivariate)

		MeanPD	MeanBI
MeanPD	Pearson Correlation	1	.276**
	Sig. (2-tailed)		.000
	N	400	400
MeanBI	Pearson Correlation	.276**	1
	Sig. (2-tailed)	.000	
	N	400	400

** Correlation is significant at the 0.01 level (2-tailed).

As indicated in the Table 4.41, the result from this hypothesis indicated that the significant (2-tailed test) is equal 0.000 which lower than 0.01 ($0.001 < 0.01$). It means that null hypothesis was rejected at the 0.01 significant level. At 0.276, it means that there is a low positive relationship between brand image and purchase decision.

H8o: There is no relationship between Product Design and Purchase Decision

H8a: There is a relationship between Product Design and Purchase Decision

Table 4.57: The Analysis of relation between Product Design and Purchase Decision by using Pearson Product Moment Coefficient Correlation (Bivariate)

		Correlations	
		MeanPD	MeanPDN
MeanPD	Pearson Correlation	1	.493**
	Sig. (2-tailed)		.000
	N	400	400
MeanPDN	Pearson Correlation	.493**	1
	Sig. (2-tailed)	.000	
	N	400	400

** . Correlation is significant at the 0.01 level (2-tailed).

As indicated in the Table 4.42, the result from this hypothesis indicated that the significant (2-tailed test) is equal 0.000 which lower than 0.01 ($0.001 < 0.01$). It means that null hypothesis was rejected at the 0.01 significant level. At 0.493, it means that there is a medium positive relationship between product design and purchase decision.

H9o: There is no relationship between Price and Purchase Decision

H9a: There is a relationship between Price and Purchase Decision

Table 4.58: The Analysis of relation between Price and Purchase Decision by using Pearson Product Moment Coefficient Correlation (Bivariate)

Correlations

		MeanPD	MeanPRICE
MeanPD	Pearson Correlation	1	.133**
	Sig. (2-tailed)		.008
	N	400	400
MeanPRICE	Pearson Correlation	.133**	1
	Sig. (2-tailed)	.008	
	N	400	400

** . Correlation is significant at the 0.01 level (2-tailed).

As indicated in the Table 4.43, the result from this hypothesis indicated that the significant (2-tailed test) is equal 0.008 which lower than 0.01 ($0.008 < 0.01$). It means that null hypothesis was rejected at the 0.01 significant level. At 0.133, it means that there is a low positive relationship between price and purchase decision.

H10o: There is no relationship between Warranty and Purchase Decision

H10a: There is a relationship between Warranty and Purchase Decision

Table 4.59: The Analysis of relation between Warranty and Purchase Decision by using Pearson Product Moment Coefficient Correlation (Bivariate)

Correlations

		MeanPD	MeanWARRANTY
MeanPD	Pearson Correlation	1	.389**
	Sig. (2-tailed)		.000
	N	400	400
MeanWARRANTY	Pearson Correlation	.389**	1
	Sig. (2-tailed)	.000	
	N	400	400

** Correlation is significant at the 0.01 level (2-tailed).

As indicated in the Table 4.44, the result from this hypothesis indicated that the significant (2-tailed test) is equal 0.000 which lower than 0.01 ($0.000 < 0.01$). It means that null hypothesis was rejected at the 0.01 significant level. At 0.389, it means that there is a low positive relationship between warranty and purchase decision.

H11o: There is no relationship between Demographic lifestyle and Purchase Decision

H11a: There is a relationship between Demographic lifestyle and Purchase Decision

Table 4.60: The Analysis of relation between Demographic lifestyle and Purchase Decision by using Pearson Product Moment Coefficient Correlation (Bivariate)

		MeanPD	MeanDL
MeanPD	Pearson Correlation	1	.248**
	Sig. (2-tailed)		.000
	N	400	400
MeanDL	Pearson Correlation	.248**	1
	Sig. (2-tailed)	.000	
	N	400	400

** Correlation is significant at the 0.01 level (2-tailed).

As indicated in the Table 4.45, the result from this hypothesis indicated that the significant (2-tailed test) is equal 0.000 which lower than 0.01 ($0.000 < 0.01$). It means that

null hypothesis was rejected at the 0.01 significant level. At 0.248, it means that there is a low positive relationship between demographic lifestyle and purchase decision.



Chapter 5

Summary, Conclusions and Recommendations

5.1 Introduction

The research objective of this study is to determine the relationship between customers' purchase decision and the factors that may affect it. The factors include are product quality, better fuel economy, after sale service, battery safety record, promotion, location, brand image, product design, price, warranty, demographic lifestyle.

5.2 Summary Demographic Factors

Table 5.1: Summary the highest percentage of each variable of demographic factor

Demographic factor	Characteristic	Frequency (<i>f</i>)	Percentage (%)
Gender	Female	206	51.5
Age	Between 31 and 40 Years	170	42.5
Income	20,000—35,000 BAHT	161	40.3
Mind of price	2,000,000—3,000,000 BAHT	197	49.3
Where to buy	4S store	218	54.5
Where get information	The introduction of the sales staff	231	57.8
Purpose to buy	Business need	201	50.3

How to buy	From a friend to borrow money to buy	224	56.0
What type to buy	Luxury car	228	57.0
Brand choice	NISSAN	222	55.5

The distribution of demographic variables of the sample indicated that the majority respondents are equal which number of respondents is female age level in range 31-40 years old, income is 20,000—35,000 BAHT, mind of price is 2,000,000—3,000,000 BAHT, and will buy at 4s store, get information of the sales staff, for business need, money form friend borrow and want luxury car, willing to buy Nissan.

5.3 Summary of Hypothesis Testing

Based on the research objectives, Pearson's Correlation analysis was employed to this study. After analyzing the hypotheses, all the null hypotheses were rejected. The results are summarized as follows:

Hypothesis 1: There is a relationship between Product Quality and Purchase Decision. At 0.212, it means that there is a low positive relationship between product quality and purchase decision.

Hypothesis 2: There is a relationship between Better Fuel Economy and Purchase Decision. At 0.277, it means that there is a low positive relationship between better fuel economy and purchase decision.

Hypothesis 3: There is a relationship between After Sale Service and Purchase Decision. At 0.359, it means that there is a low positive relationship between after sale service and purchase decision.

Hypothesis 4: There is a relationship between Battery Safety Record and Purchase Decision. At 0.188, it means that there is a low positive relationship between battery safety record and purchase decision.

Hypothesis 5: There is a relationship between Promotion and Purchase Decision. At 0.306, it means that there is a low positive relationship between promotion and purchase decision.

Hypothesis 6: There is a relationship between Location and Purchase Decision. At 0.346, it means that there is a low positive relationship between location and purchase decision.

Hypothesis 7: There is a relationship between Brand Image and Purchase Decision. At 0.276, it means that there is a low positive relationship between brand image and purchase decision.

Hypothesis 8: There is a relationship between Product Design and Purchase Decision. At 0.493, it means that there is a medium positive relationship between product design and purchase decision.

Hypothesis 9: There is a relationship between Price and Purchase Decision. At 0.133, it means that there is a low positive relationship between price and purchase decision.

Hypothesis10: H10a: There is a relationship between Warranty and Purchase Decision. At 0.389, it means that there is a low positive relationship between warranty and purchase decision.

Hypothesis11: There is a relationship between Demographic lifestyle and Purchase Decision. At 0.248, it means that there is a low positive relationship between demographic lifestyle and purchase decision.

5.4 Discussion and Implication

For demographic factors:

From these results, it can be inferred that majority of passage car customers, being female age level in range 31-40 years old, income is 20,000—35,000 BAHT, mind of price is 2,000,000—3,000,000 BAHT, and will buy at 4s store, get information of the sales staff, for business need, money form friend borrow and want luxury car, willing to buy Nissan.

For Hypotheses:

Hypothesis One (H1): Based on the result of hypotheses one, it shows that there is a low positive relationship between product quality and purchase decision. It indicates that passage car companies should improve their product quality which would meet customers purchase decision.

Hypothesis Two (H2): Based on the result of hypotheses one, it shows that there is a low positive relationship between better fuel economy and purchase decision. It

indicates that passage car companies should improve their better fuel economy which would meet customers purchase decision.

Hypothesis Three (H3): Based on the result of hypotheses one, it shows that there is a low positive relationship between after sale service and purchase decision. It indicates that passage car companies should improve their b after sale service which would meet customers purchase decision.

Hypothesis Four (H4): Based on the result of hypotheses one, it shows that here is a low positive relationship between battery safety record and purchase decision. It indicates that passage car companies should improve their battery safety record which would meet customers purchase decision.

Hypothesis Five (H5): Based on the result of hypotheses one, it shows that there is a low positive relationship between promotion and purchase decision. It indicates that passage car companies should improve their promotion which would meet customers purchase decision.

Hypothesis Six (H6): Based on the result of hypotheses one, it shows that there is a low positive relationship between location and purchase decision. It indicates that passage car companies should improve their location which would meet customers purchase decision.

Hypothesis Seven (H7): Based on the result of hypotheses one, it shows that there is a low positive relationship between brand image and purchase decision. It indicates that passage car companies should improve their brand image which would meet customers purchase decision.

Hypothesis Eight (H8): Based on the result of hypotheses one, it shows that there is a medium positive relationship between product design and purchase decision. It indicates that passage car companies should improve their product design which would meet customers purchase decision.

Hypothesis Nine (H9): Based on the result of hypotheses one, it shows that there is a low positive relationship between price and purchase decision. It indicates that passage car companies should improve their price which would meet customers purchase decision.

Hypothesis Ten (H10): Based on the result of hypotheses one, it shows that there is a low positive relationship between warranty and purchase decision. It indicates that passage car companies should improve their warranty which would meet customers purchase decision.

Hypothesis Eleven (H11): Based on the result of hypotheses one, it shows that there is a low positive relationship between demographic lifestyle and purchase decision. It indicates that passage car companies should improve their demographic lifestyle which would meet customers purchase decision.

5.5 Conclusion

In the study, the factors that impact on the customer's purchase decision passenger automobile industry in Bangkok will be determined. The factors include are product quality, better fuel economy, after sale service, battery safety record, promotion, location, brand image, product design, price, warranty, demographic lifestyle. There are 400

questionnaires were sent to target population in the passenger car service shop in Sukhumvit 66 Bangkok.

There is a low positive relationship between product quality, better fuel economy, after sale service, battery safety record, promotion, location, brand image, price, warranty, demographic lifestyle and purchase decision. And there is a medium positive relationship between product design and purchase decision. This means, the eleven factors, product quality, better fuel economy, after sale service, battery safety record, promotion, location, brand image, product design, price, warranty, demographic lifestyle can be developed to increase the level of purchase decision.

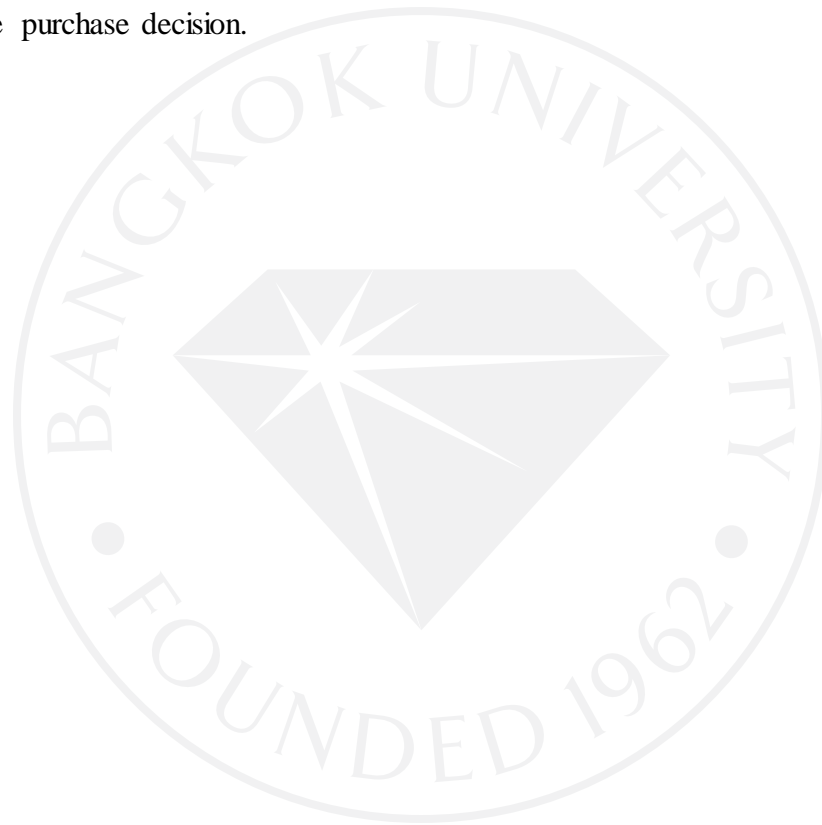
As the conclusion, to increase the level of purchase decision, product quality, better fuel economy, after sale service, battery safety record, promotion, location, brand image, product design, price, warranty, and demographic lifestyle should focus to develop for more benefit in the future.

5.6 Recommendation

A number of recommendations are indicated by the researchers based on the research findings, observations and the analysis. Product quality, better fuel economy, after sale service, battery safety record, promotion, location, brand image, price, warranty, and demographic lifestyle has low positive relationship with purchase decision, therefore the management team should maintain and also develop the product quality, better fuel economy, after sale service, battery safety record, promotion, location, brand image, price, warranty, and demographic lifestyle of passage cars.

5.7 Further Study

In this study, the researchers sought to identify Product quality, better fuel economy, after sale service, battery safety record, promotion, location, brand image, price, warranty, and demographic lifestyle will effect on customer's purchase decision of passage cars in Bangkok. It is suggested the further studies of the expectations together with perceptions of microeconomic factors such as GDP, GNP, CPI in order to identify the factors that influence purchase decision.



BIBLIOGRAPHY

- Ajzen, I. (1991). The theory of planned behavior. *Organizational Behavior and Human Decision Processes*, 50 (2), 179–211.
- Azevedo et al, (2008). Consumer buying behavior in fashion retailing: empirical evidences. *Journal of Marketing*, 61(2), 35-51.
- Chen, Z. and AJ, D. (2003). A conceptual Model of perceived Customer Value in E-Commerce, *A preliminary Investigation, Psychology &Marketing*, 20(4), 323- 347.
- Chui, Y.B., Lin, C.P., and Tang, L.L. (2005). Gender differs: assessing a model of online purchase intentions in e-tail service. *International Journal of Service Industry Management*, 16(5), 416-435.
- Fatemeh et al (2013). Online Purchase Intention: Effects of Trust and Security Perception. *Australian Journal of Basic and Applied Sciences*, 7(6), 307-315.
- Feng J., Mu W. and Fu Z., (2006), The study on consumer purchase intention, *Modern Management Science*, 11(10), 7-9.
- Hellier et al., (2003). The effect of service convenience on post-purchasing behaviors, *Industrial Management & Data Systems*, 110(9), 1420-1443.
- Honarbakhsh, S., Hooi, L.W., Kavianpour, S., & Shadkam. M. (2013). Antecedents of consumers' intention to shop online. *Australian Journal of Basic and Applied Sciences*, 7(13), 190-197.
- Houda, M. (2012). Online Purchasing Intention: Factors and Effects. *International Business and Management*, 4(1), 37-47.
- Khosla, S. (2010). Consumer psychology: The essence of Marketing. *International Journal of Educational Administration*, 2(2), 220–220.
- Kim, E., Sung, Y. and Kang, H., (2014). Brand followers' retweeting behavior on Twitter: How brand relationships influence brand electronic word-of-mouth. *Computers in Human Behavior*, 37, 18–25
- Kotler, P. and Keller, K. L. (2009). Customer satisfaction, productivity, and profitability: differences between goods and services. *Marketing Science*, 16(2), 129-45.

- Kotler, P. (1997). Marketing management: analysis, planning, implementation, and control.
- Liu, D. (2013). Factors influencing Chinese Consumer Online Group-Buying Purchase Intention: An Empirical Study. *Modern Management Science*, 7(1), 127-149.
- Martin, B. A. S. (2003), The Influence of Gender on Mood Effects in Advertising, *Psychology and Marketing*, 20 (3), 249–73.
- Mattar, (2001). Investigating the key factors affecting behavioral intentions, *International Journal of Contemporary Hospitality Management*, 23(7), 1000-1018.
- McCarthy, Jerome E. (1964). Basic Marketing. A Managerial Approach. Homewood, IL: Irwin. 769.
- McKnight D.H., Choudhury V., and Kacmar C., (2002). The impact of initial consumer trust on intentions to transact with a web site: a trust building model. *Journal of Strategic Information Systems*, 11, 297-32
- Ranganathan, C., and Ganapathy, S. (2002). Key Dimensions of Business to Consumer Web Sites. *Information and Management*, 39, 457-465.
- Sinha, I., and Batra, R., (1999). The effect of consumer price consciousness on private label purchase. *International Journal of Research in Marketing*, 16 (3), 271-295.
- Tong, X., (2010). A cross-national investigation of an extended technology acceptance model in the online shopping context. *International Journal of Retail & Distributin Management*, 38(10), 742-759.
- Whitlar, D.B., Geurts, M.D., Swenson, M.J., (1993). New product forecasting with a purchase intention survey. *The Journal of Business Forecasting Methods Systems and Systems*, 12 (3), 1-18.
- Yulhasri et al (2011). Factors that Influence Customers' Buying Intention on Shopping Online. *International Journal of Marketing Studies*, 3(1), 128-139.
- Zeithaml, B. (1988). How consumer perception of price, quality and value: a mean-end model and synthesis of evidence. *Journal of Marketing*, 52(3), 2-2



Questionnaire

Part I Demographic and General information

1. Your gender:

Male Female

2. Please tick (✓) on the age bracket which best describes the range in which your age falls:

Between 20 to 30 Years

Between 31 and 40 Years

Between 41 and 50 Years

51 Years and above

3. Your monthly income:

0—10,000 BAHT

10,000—20,000 BAHT

20,000—35,000 BAHT

More than 35,000 BAHT

4. What is in the mind of the price, before want buy a car:

500,000—1,000,000 BAHT

1,000,000—2,000,000 BAHT

2,000,000—3,000,000 BAHT

More than 3,000,000 BAHT

5. Where would you like to buy a car:

4S store

Dealers

Online shopping

Other

6. Where you get the information of car:

A friend introduced

Advertising, television

The introduction of the sales staff

web query

7. What is the main purpose of you to buy a car?

Instead of walking

Convenient for family travel

Business need

Improve the quality of life

8. How are you going to buy car:

Full purchase

Payment by installment

From a friend to borrow money to buy

From bank to borrow money to buy

9. What types of the car do you like?

Small car

compact car

Luxury car

SUV

Part II Brand Choice

1. Which brand of car in Thailand is your favorite?

___ TOYOTA

___ HONDA

___ NISSAN

Part III. Measuring Variables

Please answer the following question by mark “√” in the space given below and do kindly answer truthfully and complete all questions.

Variable	Strongly Disagree	Slightly Disagree	Moderate	Slightly Agree	Strongly Agree
	1	2	3	4	5
Product Quality					
1. The position of seat is very comfortable					
2. The visibility for the driver's seat is good					
3. The Honda/Toyota/Nissan car is stable at high speeds					
4. The Honda/Toyota/Nissan car stop smoothly when apply the brakes					
Better Fuel Economy,					
1. Honda/Toyota/Nissan car can help to save fuel cost					
2. Honda/Toyota/Nissan car can provide new technology of hybrid					
3. Drive Honda/Toyota/Nissan car can get significantly less than 25 miles to the gallon					
After Sale Service					
1. I can get the repair service immediately after I request					
2. I can get the insurance service immediately after I need					
3. Employees are always willing to help me.					

4. Employees made me feel comfortable in dealing with them.					
Battery Safety Record					
1. when battery is low, the system of Honda/Toyota/Nissan car can inform me immediately					
2. There is extra battery can be used after battery broken					
3. The battery can provide enough power when I request					
Promotion					
1. Honda/Toyota/Nissan has attractive sales promotion than other brands					
2. Honda/Toyota/Nissan has more monetary sales promotion such as discounts and coups					
3. Honda/Toyota/Nissan has more non-monetary sales promotion such as sweepstakes, free gifts and loyalty programmers					
Location					
1. It's very easy to find store of Honda/Toyota/Nissan when I want to purchase car					
2. There are service centers of Honda/Toyota/Nissan in every region of Bangkok					
Brand Image					
1. I have a clear understanding on the brand of Honda/Toyota/Nissan					
2. Honda/Toyota/Nissan comes to my mind at firs when					

mentions automobile industry.					
3. The brand of Honda/Toyota/Nissan is outstanding and gives me a good impression.					
Product design					
1. The design of Honda/Toyota/Nissan is match my fashion attitude					
2. I prefer the design of Honda/Toyota/Nissan compare to other brand of automobiles					
Price					
1. The price of Honda/Toyota/Nissan is acceptable					
2. The price of Honda/Toyota/Nissan cloth is affordable					
Warranty					
1. The warranty is trustable of Honda/Toyota/Nissan					
2. Honda/Toyota/Nissan Service Center can provide good warranty for me, when I contact it.					
Demographic lifestyle					
1. The feature of Honda/Toyota/Nissan can match my lifestyle of Thailand.					
2. The function of Honda/Toyota/Nissan is easy to use under my lifestyle.					
Purchase Decision					
1. I will purchase Honda/Toyota/Nissan car when my					

budget is allowed					
2. Honda/Toyota/Nissan car is my first choice					
3. I would encourage others to purchase Honda/Toyota/Nissan car					



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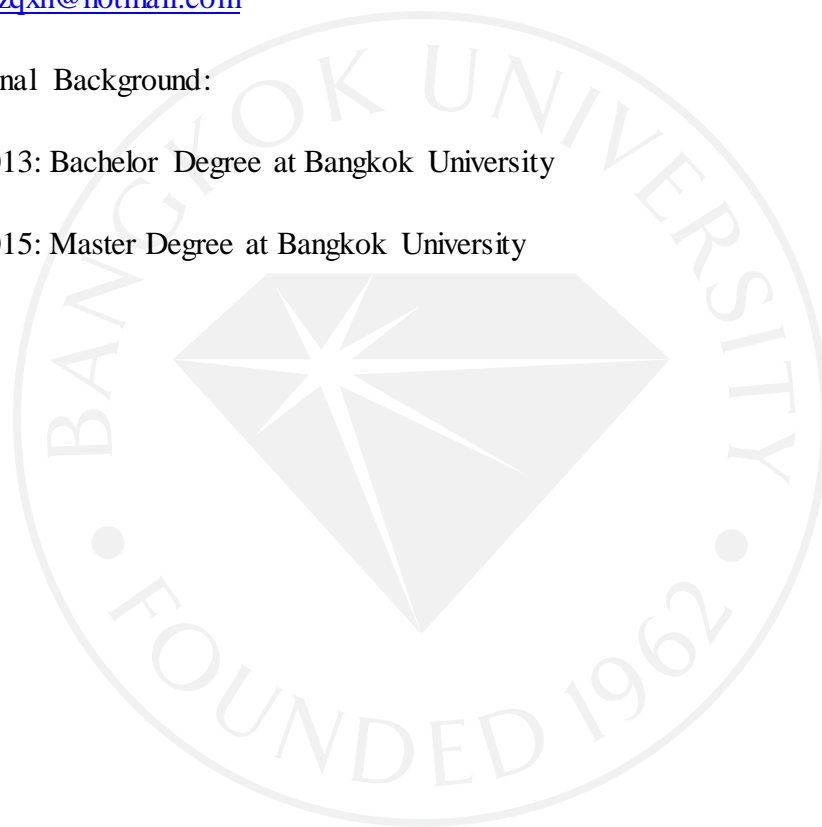
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