

CAR COMPARISON SYSTEM

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# Name of the system

Car Comparison System

# Objective

This project aimed a car comparison system that allows users or customers who are weighing their option on buying their ideal car. It will allow dealerships to know what their customers are looking for, see their competitors what they offer and battle on offering the best sale to customers.

# Users of the system

* System Admin
* Customer
* Dealer Admin

# Functional Requirements

1. Create an account
2. Customer
3. Dealership
4. Update information
5. Customer details
6. Dealer details
7. Vehicle detail
8. Add vehicle
9. Delete vehicle
10. View information
11. Vehicle details
12. Dealership details

# Non Functional Requirements

1. Consistence uptime
   1. The system will run for some non-trivia length of time(24 hours)
2. Load and accuracy
   1. The system can connect up to 1500 users in a period of time. If the number exceed the system will process slowly.
3. Real-time feedback
   1. If the student entered the incorrect username or password, the system will notify user with error
4. Effective recovery
5. When the system crashes while the user is busy, when the system returns the user changes may be made or not. But user information should still be consistence either way

# UML Diagrams

## Use Case Diagram



## Full Use Case Description

|  |  |
| --- | --- |
| Use Case name: | Add vehicle |
| Scenario: | Add vehicle to the system |
| Triggering Event: | The vehicle added will reflect to the dealership to be added |
| Brief Use Case Description | The dealer admin add the vehicle to the system that will appear when the customer searches the vehicle |
| Actor(s): | System admin |
| Related Use Cases: | N/A |
| Stakeholders: | Customer, system admin, dealer admin |
| Pre-condition: | The vehicle must not exist on the system |
| Post-condition: | The vehicle must exist to the system |
| Flow of activities: | |  |  | | --- | --- | | Actor | System | | 1. System admin is logging in to the system to add a vehicle 2. The user enter vehicle information, then press a “Add vehicle” button | * 1. The system access user to add a vehicle   2.1 The system check registration if it exist then add the vehicle to the system | |  |  | |  |  | |  |  | |  |  | |  |  | |
| Exception Condition: | The vehicle registration already exist |

|  |  |
| --- | --- |
| Use Case name: | View vehicle details |
| Scenario: | Customer want to view vehicle details so that it is easy for them to compare the vehicle with other vehicles. |
| Triggering Event: | The customer want to view the features and all the car details |
| Brief Use Case Description | The online customer view the vehicles by filtering cars by their names or choose all vehicles |
| Actor(s): | customer |
| Related Use Cases: | N/A |
| Stakeholders: | Dealer admin, customer |
| Pre-condition: | The vehicle viewed must exist in the system, under a certain dealership. |
| Post-condition: | The vehicle details must be displayed to the user. |
| Flow of activities: | |  |  | | --- | --- | | Actor | System | | 1. The customer select option to view vehicle   2. Customer select vehicle to view its details. | * 1. The system show vehicles according to searched vehicle   2.1 The system displays the selected vehicle details | |  |  | |  |  | |  |  | |  |  | |  |  | |
| Exception Condition: | No vehicle found to that dealer |

|  |  |
| --- | --- |
| Use Case name: | Update vehicle |
| Scenario: | Update vehicle details |
| Triggering Event: | The vehicle feature added will reflect to the dealership |
| Brief Use Case Description | the dealer admin update vehicle details under their dealership to be advertised |
| Actor(s): | Dealer admin |
| Related Use Cases: | Add vehicle |
| Stakeholders: | Customer, dealer admin |
| Pre-condition: | The vehicle must be added under dealership |
| Post-condition: | The vehicle details must be updated |
| Flow of activities: | |  |  | | --- | --- | | Actor | System | | 1. Dealer admin login to the system to update vehicle 2. The user update the vehicle details | * 1. The system access user to update option   2.1 the system update the vehicle under the dealership | |  |  | |  |  | |  |  | |  |  | |  |  | |
| Exception Condition: | If vehicle is updated, can still be updated again. |

|  |  |
| --- | --- |
| Use Case name: | Delete vehicle |
| Scenario: | Delete vehicle to be compared |
| Triggering Event: | Vehicle is deleted from the dealership |
| Brief Use Case Description | The dealership delete vehicle from their advertised vehicles |
| Actor(s): | Dealer admin |
| Related Use Cases: | Add vehicle |
| Stakeholders: | System admin, dealer admin |
| Pre-condition: | The vehicle must exist on the system |
| Post-condition: | The vehicle must be removed from the dealer vehicles |
| Flow of activities: | |  |  | | --- | --- | | Actor | System | | 1. Dealer admin is logging in to the system for deleting vehicle 2. The user select the vehicle to be deleted 3. The user select the “Delete” button | * 1. The system access user to delete option   2.1The system give the user an option to delete the selected vehicle  3.1 The system delete the vehicle from the system under certain dealership | |  |  | |  |  | |  |  | |  |  | |  |  | |
| Exception Condition: | if the vehicle is deleted, the dealer can still add it again in future |

|  |  |
| --- | --- |
| Use Case name: | Add Feature |
| Scenario: | Add vehicle features to the system under a dealership |
| Triggering Event: | The vehicle feature added will reflect to the dealership |
| Brief Use Case Description | The system admin add a vehicle feature to the system for the dealer to be able to add them on the vehicle |
| Actor(s): | System admin |
| Related Use Cases: | N/A |
| Stakeholders: | System admin, dealer admin |
| Pre-condition: | The vehicle must not exist on the system |
| Post-condition: | The vehicle must exist to the system |
| Flow of activities: | |  |  | | --- | --- | | Actor | System | | 1. System admin is logging in to the system to add a vehicle 2. The user add vehicle | * 1. The system access user to add a vehicle   2.1 The system add the vehicle to the system | |  |  | |  |  | |  |  | |  |  | |  |  | |
| Exception Condition: | The vehicle can only be added once |

|  |  |
| --- | --- |
| Use Case name: | Search vehicle |
| Scenario: | The searched vehicle will be collected according to customer search |
| Triggering Event: | The searched vehicle will be collected according to customer search |
| Brief Use Case Description | The customer enter/select the vehicle and the system will collect all the cars that satisfied the customer search |
| Actor(s): | customer |
| Related Use Cases: | N/A |
| Stakeholders: | N/A |
| Pre-condition: | Search controller must be filtered |
| Post-condition: | Show the correct searched cars to the user |
| Flow of activities: | |  |  | | --- | --- | | Actor | System | | 1. The customer enter the vehicle information that need to be search | * 1. The system show all available vehicles according to search | |  |  | |  |  | |  |  | |  |  | |  |  | |
| Exception Condition: | No specific car that was found to any dealership |

|  |  |
| --- | --- |
| Use Case name: | Create customer account |
| Scenario: | Customer want to create account |
| Triggering Event: | New customer want to create account online |
| Brief Use Case Description | The customer create account by entering basic information and the customer information will be store to the system |
| Actor(s): | Customer |
| Related Use Cases: | N/A |
| Stakeholders: | N/A |
| Pre-condition: |  |
| Post-condition: | New customer must be created and saved  Account must be created with different user name |
| Flow of activities: | |  |  | | --- | --- | | Actor | System | | 1. The customer register his/her account by registering login details 2. Customer enter his/her personal details | * 1. The system register customer login details successfully   2. System prompt the customer to fill personal details   2.1 system validate and save personal details | |  |  | |  |  | |  |  | |  |  | |  |  | |
| Exception Condition: | 1. The username is already exist to the system 2. Basic data not completed |

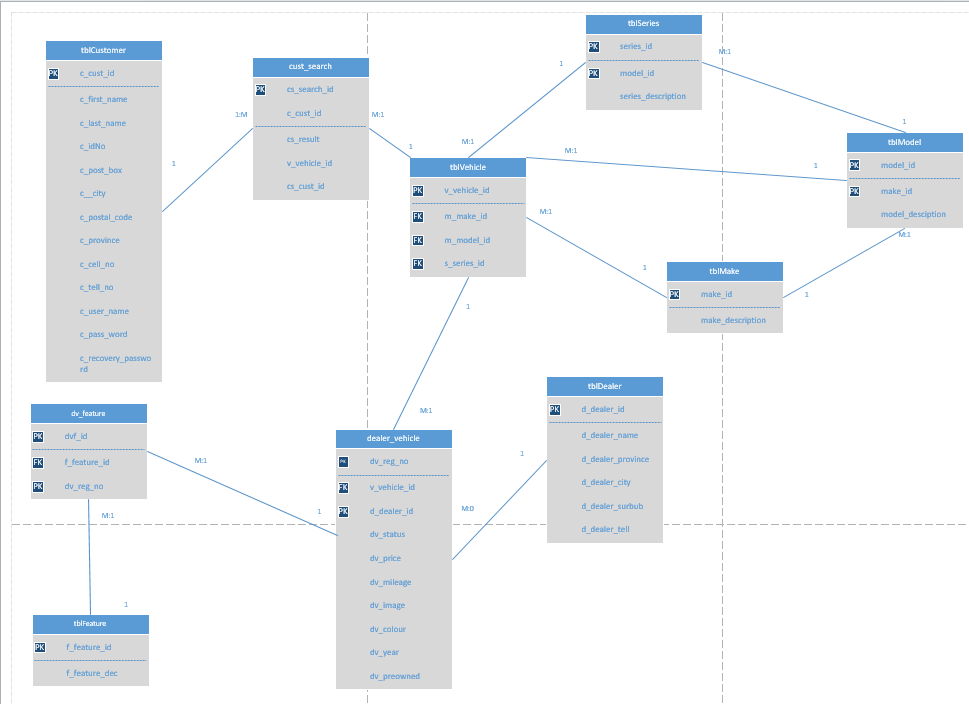
|  |  |
| --- | --- |
| Use Case name: | View dealership |
| Scenario: | Customer want to view all dealership |
| Triggering Event: | The customer want to view all/nearest dealership |
| Brief Use Case Description | The online customer view the dealerships by filtering dealerships province or choose all dealers |
| Actor(s): | Customer |
| Related Use Cases: | N/A |
| Stakeholders: | Dealer admin |
| Pre-condition: | The dealers must exist to the system |
| Post-condition: | All dealers must be shown to the customers  The nearest dealers will be shown |
| Flow of activities: | |  |  | | --- | --- | | Actor | System | | 1. The customer select option to view dealers 2. Customer change options | 1. The system show dealers according to selected province  2.1 change result accordingly | |  |  | |  |  | |  |  | |  |  | |  |  | |
| Exception Condition: | No dealers found to that province |

|  |  |
| --- | --- |
| Use Case name: | Update customer details |
| Scenario: | The customer want to update details |
| Triggering Event: | Retrieve information need to updated |
| Brief Use Case Description | Retrieve customer details and make changes where needed and store the new changes been made to the system |
| Actor(s): | Customer |
| Related Use Cases: | N/A |
| Stakeholders: | N/A |
| Pre-condition: | The customer details must exist to system so that can be updated |
| Post-condition: | New changes must be shown to user  Changes saved to system |
| Flow of activities: | |  |  | | --- | --- | | Actor | System | | 1. Login using password and username 2. The customer select option to update account details 3. Customer make changes | 1.1 validate user password and username  1.2 The system show customers account details   * 1. system validate the changes   2. and the changes saved to the system | |  |  | |  |  | |  |  | |  |  | |  |  | |
| Exception Condition: | 1. Incorrect changes made on system |

|  |  |
| --- | --- |
| Use Case name: | Delete customer account |
| Scenario: | Customer delete their account |
| Triggering Event: | Delete customer account on the system |
| Brief Use Case Description | The customer delete their account to reduce privileges |
| Actor(s): | Customer |
| Related Use Cases: | N/A |
| Stakeholders: | Customer |
| Pre-condition: | An account must exist |
| Post-condition: | The account must not exist to the system |
| Flow of activities: | |  |  | | --- | --- | | Actor | System | | 1.The customer login to delete their account  2.The user delete their account | * 1. The system access user to delete their account     2.1 The system delete the customer account from the system | |  |  | |  |  | |  |  | |  |  | |  |  | |
| Exception Condition: | If an account is deleted, it can still be created again |

|  |  |
| --- | --- |
| Use Case name: | Create dealer account |
| Scenario: | Create the dealership account |
| Triggering Event: | Dealership will be able to login |
| Brief Use Case Description | Dealership account is created to give dealership access to the system |
| Actor(s): | System admin |
| Related Use Cases: | N/A |
| Stakeholders: | Dealer admin, system admin |
| Pre-condition: | Dealer admin must provide the system admin with the dealership details |
| Post-condition: | None |
| Flow of activities: | |  |  | | --- | --- | | Actor | System | | 1. System admin login 2. System admin provide dealership details | 1.1The system access user to register dealer  2.1 The system creates an account | |  |  | |  |  | |  |  | |  |  | |  |  | |
| Exception Condition: | If account is created, dealer can update the dealership details |

## ERD(Entity Related Diagram)



## Domain Class Diagram



## Crud Matrix

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **ENTITIES** |  |  |  |  |  |
| **USE CASE** | **CUSTOMER** | **DEALER ADMIN** | **DEALER\_VEHICLE** | **DEALER** | **VEHICLE** | **CUST\_SEARCH** |
| **Create account** | **C** |  |  |  |  |  |
| **Search vehicle** |  |  | **R** |  |  | **C** |
| **View vehicle details** |  |  | **R** |  |  |  |
| **View dealership** |  |  |  | **R** |  |  |
| **Delete customer account** | **D** |  |  |  |  |  |
| **Update customer details** | **U** |  |  |  |  |  |
| **Update dealer details** |  | **U** |  | **U** |  |  |
| **Update vehicle** |  |  | **U** |  |  |  |
| **Delete vehicle** |  |  | **D** |  |  |  |
| **Add vehicle** |  |  | **C** |  | **C** |  |
| **Create dealer account** |  | **C** |  |  |  |  |
|  |  |  |  |  |  |  |
| **C = Create , R = Read , U = Update , D = Delete** |  |  |  |  |  |  |

## SSD( System Sequence Diagram ) & Multilayer Diagram

















UPDATE VEHICLE





VIEW VEHICLE





REGISTER DEALER



ADD VEHICLE





DELETE VEHICLE





## CRC Cards

**ADD VEHICLE**

|  |  |
| --- | --- |
| adminControl | |
| **Responsibilities**  - addVehicle() | **Collaborators**  -dealerVehicle  - DealerModel  - VehicleModel |

|  |  |
| --- | --- |
| DealerVehicleModel | |
| **Responsibilities**  - getVehicle()  -addCar() | **Collaborators**  -vehicle |

|  |  |
| --- | --- |
| VehicleModel | |
| **Responsibilities**  - getSpecificCar() | **Collaborators** |

|  |  |
| --- | --- |
| DealerModel | |
| **Responsibilities**  - getDealer() | **Collaborators** |

**VIEW VEHICLE**

|  |  |
| --- | --- |
| DealerModel | |
| **Responsibilities**  - View() | **Collaborators**  -dealerVehicle |

|  |  |
| --- | --- |
| dealerVehicle | |
| **Responsibilities**  - getCar() | **Collaborators** |

**UPDATE VEHICLE**

|  |  |
| --- | --- |
| adminControl | |
| **Responsibilities**  -updateVehicle() | **Collaborators**  -vehicle |

|  |  |
| --- | --- |
| dealerVehicleModel | |
| **Responsibilities**  -getVehicle()  -updateVehicle() | **Collaborators** |

**DELETE VEHICLE**

|  |  |
| --- | --- |
| adminControl | |
| **Responsibilities**  -deleteVehicle() | **Collaborators**  -vehicle |

|  |  |
| --- | --- |
| dealerVehicleModel | |
| **Responsibilities**  -getVehicle()  -deleteVehicle() | **Collaborators** |

**ADD DEALER**

|  |  |
| --- | --- |
| adminControl | |
| **Responsibilities**  - addDealer() | **Collaborators**  - dealerVehicleModel |

|  |  |
| --- | --- |
| dealerVehicleModel | |
| **Responsibilities**  -addDealer() | **Collaborators** |

**VIEW DEALER**

|  |  |
| --- | --- |
| adminControl | |
| **Responsibilities**  - viewDealer() | **Collaborators**  - dealerVehicleModel |

|  |  |
| --- | --- |
| dealerVehicleModel | |
| **Responsibilities**  -getDealer() | **Collaborators** |

**UPDATE DEALER**

|  |  |
| --- | --- |
| adminControl | |
| **Responsibilities**  - updateDealer() | **Collaborators**  - dealerVehicleModel |

|  |  |
| --- | --- |
| dealerVehicleModel | |
| **Responsibilities**  -getDealer()  -updateDealer() | **Collaborators** |

**CREATE ACCOUNT**

|  |  |
| --- | --- |
| customerControl | |
| **Responsibilities**  - registerCustomer() | **Collaborators**  -customer |

|  |  |
| --- | --- |
| customerModel | |
| **Responsibilities**  -registerCustomer() | **Collaborators** |

**UPDATE CUSTOMER**

|  |  |
| --- | --- |
| customerControl | |
| **Responsibilities**  - updateCustomer()  - view() | **Collaborators**  -customer |

|  |  |
| --- | --- |
| customerModel | |
| **Responsibilities**  -updateCustomer() | **Collaborators** |

**DELETE CUSTOMER**

|  |  |
| --- | --- |
| customerControl | |
| **Responsibilities**  - deleteCustomer()  - view() | **Collaborators**  -customer |

|  |  |
| --- | --- |
| customerModel | |
| **Responsibilities**  -deleterCustomer() | **Collaborators** |

**SEARCH VEHICLE**

|  |  |
| --- | --- |
| searchControl | |
| **Responsibilities**  - viewSearch() | **Collaborators**  -dealerVehicle  - CustomerSearchModel |

|  |  |
| --- | --- |
| searchModel | |
| **Responsibilities**  - getCars() | **Collaborators** |

|  |  |
| --- | --- |
| dealerVehicleModel | |
| **Responsibilities**  -getVehicle() | **Collaborators**  -dealerModel  -featureModel  -vehicleModel |
| DealerModel | |
| **Responsibilities**  -getDealer() | **Collaborators** |

|  |  |
| --- | --- |
| Feature | |
| **Responsibilities**  -getFeature() | **Collaborators** |

|  |  |
| --- | --- |
| CustomerSearchModel | |
| **Responsibilities**  -updateCustomerSearch() | **Collaborators** |

## Detailed Design Class Diagram

















## Package Diagram

CUSTOMER





VEHICLE





ADMIN



# Database Script file

/\*

SQLyog Community Edition- MySQL GUI v5.22a

Host - 5.1.30-community : Database - final database

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Server version : 5.1.30-community

\*/

/\*!40101 SET NAMES utf8 \*/;

/\*!40101 SET SQL\_MODE=''\*/;

create database if not exists `final database`;

USE `final database`;

/\*!40014 SET @OLD\_FOREIGN\_KEY\_CHECKS=@@FOREIGN\_KEY\_CHECKS, FOREIGN\_KEY\_CHECKS=0 \*/;

/\*!40101 SET @OLD\_SQL\_MODE=@@SQL\_MODE, SQL\_MODE='NO\_AUTO\_VALUE\_ON\_ZERO' \*/;

/\*Table structure for table `cust\_search` \*/

DROP TABLE IF EXISTS `cust\_search`;

CREATE TABLE `cust\_search` (

`v\_vehicle\_id` int(10) DEFAULT NULL,

`cs\_results` varchar(30) DEFAULT 'Available',

`c\_cust\_id` int(5) DEFAULT NULL,

`cs\_cust\_date` date DEFAULT NULL,

`cs\_search\_id` int(10) unsigned zerofill NOT NULL AUTO\_INCREMENT,

PRIMARY KEY (`cs\_search\_id`),

KEY `FK\_cust\_search` (`c\_cust\_id`),

KEY `FK\_cust\_search1` (`v\_vehicle\_id`),

CONSTRAINT `FK\_cust\_search` FOREIGN KEY (`c\_cust\_id`) REFERENCES `tblcustomer` (`c\_cust\_id`),

CONSTRAINT `FK\_cust\_searchR` FOREIGN KEY (`v\_vehicle\_id`) REFERENCES `tblvehicle` (`v\_vehicle\_id`)

) ENGINE=InnoDB DEFAULT CHARSET=latin1;

/\*Data for the table `cust\_search` \*/

/\*Table structure for table `dealer\_vehicle` \*/

DROP TABLE IF EXISTS `dealer\_vehicle`;

CREATE TABLE `dealer\_vehicle` (

`dv\_reg\_no` varchar(30) NOT NULL,

`v\_vehicle\_id` int(10) NOT NULL,

`d\_dealer\_id` int(10) unsigned NOT NULL,

`dv\_status` varchar(20) DEFAULT 'available',

`dv\_price` int(10) DEFAULT NULL,

`dv\_mileage` int(10) DEFAULT NULL,

`dv\_image` varchar(255) DEFAULT NULL,

`dv\_colour` varchar(30) DEFAULT NULL,

`dv\_year` int(11) DEFAULT NULL,

`dv\_preowned` varchar(10) DEFAULT NULL,

PRIMARY KEY (`dv\_reg\_no`),

KEY `FK\_dealer\_vehicle` (`v\_vehicle\_id`),

KEY `FK\_dealer\_vehicle1` (`d\_dealer\_id`),

CONSTRAINT `FK\_dealer\_vehicle` FOREIGN KEY (`d\_dealer\_id`) REFERENCES `tbldealer` (`d\_dealer\_id`),

CONSTRAINT `FK\_dealer\_vehicleR` FOREIGN KEY (`v\_vehicle\_id`) REFERENCES `tblvehicle` (`v\_vehicle\_id`)

) ENGINE=InnoDB DEFAULT CHARSET=latin1;

/\*Data for the table `dealer\_vehicle` \*/

insert into `dealer\_vehicle`(`dv\_reg\_no`,`v\_vehicle\_id`,`d\_dealer\_id`,`dv\_status`,`dv\_price`,`dv\_mileage`,`dv\_image`,`dv\_colour`,`dv\_year`,`dv\_preowned`) values ('111-KKN-MP',2,21,'available',300000,2000,'Images/JUKE.jpg','WHITE',2017,NULL),('147-HNM-GP',3,15,'available',250000,1000,'Images/CLA35.jpg','WHITE',2011,NULL),('147-HNM-MP',3,15,'available',250000,1000,'Images/Mercedes-CLA-35.jpg','WHITE',2015,NULL),('459-pop-nn',1,14,'available',140000,20000,'Images/43c816a842498116bc8ad183a4fac671.jpg','BLUE',2011,NULL),('892-mxn-122',1,14,'available',140000,20000,'Images/2017-bmw-3-series-in-depth-model-review-car-and-driver-photo-686405-s-original.jpg','BLUE',2011,NULL),('aqas-mkk',1,14,'available',140000,20000,'Images/images (1).jpg','GREY',2009,NULL),('FOP-123-OPL',4,14,'available',140000,20000,'Images/P90185998-the-new-bmw-z4-in-estoril-blue-metallic-07-2015-2250px.jpg','BLUE',2015,NULL),('gp-1023-gp',4,13,'available',1233,1255,'Images/Z4.jpg','red',2014,'YES'),('gp-1023-nm',1,13,'available',1233,1255,'Images/bmw-3-series.png','red',2013,'NO'),('HJK-M-2011',7,21,'available',20000,50000,'Images/Capture001.png','BLUE',2008,NULL),('HJK-M-2013',7,27,'available',20000,50000,'Images/Capture001.png','BLUE',2010,NULL),('HJK-MXA-2009',7,21,'available',20000,50000,'Images/hqdefault.jpg','BLUE',2009,NULL),('HJK-MXA-2010',7,21,'available',20000,50000,'Images/CLA35.jpg','BLUE',2008,NULL),('HJK-MXA-2011',7,21,'available',20000,50000,'Images/bmw\_3\_series.jpg','BLUE',2008,NULL),('HJK-MXA-2015',7,21,'available',20000,50000,'Images/TUTbrandScreenSave.png','BLUE',2008,NULL),('HJK-MXA-2018',1,24,'available',20000,50000,'Images/bmw\_3\_series.jpg','BLUE',2010,NULL),('HJK-MXA-2019',7,21,'available',20000,50000,'Images/hqdefault.jpg','BLUE',2008,NULL),('HJK-MXA-2044',7,21,'available',20000,50000,'Images/TUTbrandScreenSave.png','BLUE',2009,NULL),('HJK-MXA-2601',7,21,'available',20000,50000,'Images/TUTbrandScreenSave.png','BLUE',2010,NULL),('HJK-MXA-2609',7,21,'available',20000,50000,'Images/TUTbrandScreenSave.png','BLUE',2008,NULL),('jjj-122-pop',1,14,'available',140000,20000,'Images/bmw\_3\_series.jpg','BLUE',2011,NULL),('lll-123-lko',3,14,'available',140000,20000,'Images/2013-bmw-activehybrid-3\_100367245\_m.jpg','BLUE',2011,NULL),('MDK-566-POO',4,14,'available',140000,20000,'Images/bmw-z4-m40i.jpg','GREY',2011,NULL),('MP-ZN-MM',1,20,'available',20000,144,'Images/3series.jpg','blue',2008,'YES'),('OPO-FF-123',7,14,'available',140000,20000,'Images/2019-bmw-3-series-rendering.jpg','BLUE',2015,NULL),('RTJ-123-JKL',4,21,'available',400000,10000,'Images/2016\_bmw\_2\_series-pic-5512270493035410651-640x480.jpeg','BLUE',2011,NULL),('yuu-888-kzn',3,14,'available',140000,20000,'Images/2018\_mercedes-benz\_cla\_45-amg\_coupe\_001\_rj.png','RED',2011,NULL),('ZN-MTH-322',2,15,'available',250000,1000,'Images/hqdefault.jpg','GREEN',2018,NULL);

/\*Table structure for table `dv\_feature` \*/

DROP TABLE IF EXISTS `dv\_feature`;

CREATE TABLE `dv\_feature` (

`dvf\_id` int(11) NOT NULL AUTO\_INCREMENT,

`f\_feature\_id` int(10) NOT NULL,

`dv\_reg\_no` varchar(10) NOT NULL,

PRIMARY KEY (`dvf\_id`),

UNIQUE KEY `f\_feature\_id` (`f\_feature\_id`,`dv\_reg\_no`),

KEY `FK\_dv\_feature` (`f\_feature\_id`),

KEY `FK\_dv\_featureR` (`dv\_reg\_no`),

CONSTRAINT `FK\_dv\_feature` FOREIGN KEY (`f\_feature\_id`) REFERENCES `tblfeature` (`f\_feature\_id`),

CONSTRAINT `FK\_dv\_featureR` FOREIGN KEY (`dv\_reg\_no`) REFERENCES `dealer\_vehicle` (`dv\_reg\_no`)

) ENGINE=InnoDB AUTO\_INCREMENT=42 DEFAULT CHARSET=latin1;

/\*Data for the table `dv\_feature` \*/

insert into `dv\_feature`(`dvf\_id`,`f\_feature\_id`,`dv\_reg\_no`) values (2,1,'gp-1023-nm'),(5,1,'gp-1023-gp'),(6,1,'MP-ZN-MM'),(8,6,'gp-1023-nm'),(13,6,'111-KKN-MP'),(14,8,'111-KKN-MP'),(37,2,'111-KKN-MP'),(38,1,'111-KKN-MP');

/\*Table structure for table `tbladministrator` \*/

DROP TABLE IF EXISTS `tbladministrator`;

CREATE TABLE `tbladministrator` (

`ad\_Id` int(4) NOT NULL AUTO\_INCREMENT,

`ad\_username` varchar(40) DEFAULT NULL,

`ad\_first\_name` varchar(30) DEFAULT NULL,

`ad\_last\_name` varchar(30) DEFAULT NULL,

`ad\_cell\_no` varchar(10) DEFAULT NULL,

`ad\_tell\_no` varchar(10) DEFAULT NULL,

`ad\_postBox` varchar(20) DEFAULT NULL,

`ad\_postCode` varchar(5) DEFAULT NULL,

`ad\_password` varchar(30) DEFAULT NULL,

`ad\_recovery\_pswd` varchar(30) DEFAULT NULL,

`d\_dealer\_id` int(10) unsigned zerofill DEFAULT NULL,

`ad\_id\_no` varchar(13) DEFAULT NULL,

`roleNum` int(3) NOT NULL DEFAULT '2',

PRIMARY KEY (`ad\_Id`),

KEY `FK\_tbladministrator` (`d\_dealer\_id`),

KEY `FK\_tbladministrator\_1` (`roleNum`),

CONSTRAINT `FK\_tbladministrator\_1` FOREIGN KEY (`roleNum`) REFERENCES `tblrole` (`roleNum`),

CONSTRAINT `FK\_tbladministrator` FOREIGN KEY (`d\_dealer\_id`) REFERENCES `tbldealer` (`d\_dealer\_id`)

) ENGINE=InnoDB AUTO\_INCREMENT=26 DEFAULT CHARSET=latin1;

/\*Data for the table `tbladministrator` \*/

insert into `tbladministrator`(`ad\_Id`,`ad\_username`,`ad\_first\_name`,`ad\_last\_name`,`ad\_cell\_no`,`ad\_tell\_no`,`ad\_postBox`,`ad\_postCode`,`ad\_password`,`ad\_recovery\_pswd`,`d\_dealer\_id`,`ad\_id\_no`,`roleNum`) values (2,'TEST2','PULANE','MADISHA','0636312345','0127456896','1341','1478','12345','12345',0000000021,'960812789654',2),(3,'TEST3','EMMANUEL','MASUKU','0763907865','0137456123','1034','1035','12345','98745',0000000015,'621103890041',2),(4,'TEST4','THABANG','KGANAK','0790844289','0117896412','1579','1145','12345','54321',0000000014,'6908221234567',2),(5,'TEST5','LINDO','NKOSI','0824567891','0217412569','2014','1234','12345','654321',0000000016,'7703127896421',2),(9,'admin','MXOLISI','MBATHA','0725695223','0112358662','5688 KWA GUQA','3880','MXOLISI',NULL,0000000013,'9511235528569',2),(13,'DEALER3','LINDOKUHLE','ZULU','0792825668','0112825665','G BB 1233','1039','123456',NULL,0000000019,'9511235527086',2),(16,'dealer','ZONKE','MBATHA','0725689223','0113655544','5655 KWAGUQA','1050','123456',NULL,0000000020,'95112322554',0),(17,'MXOLA',NULL,NULL,NULL,NULL,NULL,NULL,'MBATHA',NULL,0000000024,NULL,2),(18,'MTHIYA',NULL,NULL,NULL,NULL,NULL,NULL,'MBATHA',NULL,0000000025,NULL,2),(19,'ZULU',NULL,NULL,NULL,NULL,NULL,NULL,'MBATHA',NULL,0000000026,NULL,2),(20,'MSUTHU',NULL,NULL,NULL,NULL,NULL,NULL,'MBATHA',NULL,0000000027,NULL,2),(21,'judith2',NULL,NULL,NULL,NULL,NULL,NULL,'judith2',NULL,0000000028,NULL,2),(22,'MKHIZE',NULL,NULL,NULL,NULL,NULL,NULL,'MKHIZE',NULL,0000000029,NULL,2),(23,'zembe',NULL,NULL,NULL,NULL,NULL,NULL,'12345',NULL,0000000030,NULL,2),(24,'MTHIYA',NULL,NULL,NULL,NULL,NULL,NULL,'MTHIYA',NULL,0000000031,NULL,2),(25,'GOGO',NULL,NULL,NULL,NULL,NULL,NULL,'12345',NULL,0000000032,NULL,2);

/\*Table structure for table `tblcustomer` \*/

DROP TABLE IF EXISTS `tblcustomer`;

CREATE TABLE `tblcustomer` (

`c\_username` varchar(50) DEFAULT NULL,

`c\_email\_address` varchar(50) DEFAULT NULL,

`c\_first\_name` varchar(25) DEFAULT NULL,

`c\_last\_name` varchar(25) DEFAULT NULL,

`c\_IDNo` varchar(13) DEFAULT NULL,

`c\_poAdd\_PBox` varchar(30) DEFAULT NULL,

`c\_poAdd\_City` varchar(30) DEFAULT NULL,

`c\_poAdd\_PostalCode` varchar(30) DEFAULT NULL,

`c\_poAdd\_Province` varchar(20) DEFAULT NULL,

`c\_cellNo` varchar(10) DEFAULT NULL,

`c\_tellNo` varchar(10) DEFAULT NULL,

`c\_password` varchar(15) DEFAULT NULL,

`c\_cust\_id` int(5) NOT NULL AUTO\_INCREMENT,

`c\_recovery\_pswd` varchar(20) DEFAULT NULL,

`roleNum` int(3) NOT NULL DEFAULT '1',

PRIMARY KEY (`c\_cust\_id`),

KEY `FK\_tblcustomer` (`roleNum`),

CONSTRAINT `FK\_tblcustomer` FOREIGN KEY (`roleNum`) REFERENCES `tblrole` (`roleNum`)

) ENGINE=InnoDB AUTO\_INCREMENT=33 DEFAULT CHARSET=latin1;

/\*Data for the table `tblcustomer` \*/

insert into `tblcustomer`(`c\_username`,`c\_email\_address`,`c\_first\_name`,`c\_last\_name`,`c\_IDNo`,`c\_poAdd\_PBox`,`c\_poAdd\_City`,`c\_poAdd\_PostalCode`,`c\_poAdd\_Province`,`c\_cellNo`,`c\_tellNo`,`c\_password`,`c\_cust\_id`,`c\_recovery\_pswd`,`roleNum`) values ('CUST6','fanikievuma@yahoo.com','FANIKIE','VUMA','9102167894080','2014','TZANEEN','3645','LIMPOPO','0825063858','0317894563','12345',14,'12345',1),('CUST7','masukujp@gmail.com','JABU','MASUKU','8605127894081','2015','VERENEEGING','1045','MPUMALANGA','0637894563','0127894563','12345',15,'12345',1),('CUST8','mbonaniMj7@gmail.com','MTHOKOZISI','MBONANI','5409071234082','7896','SEBOKENG','1341','GAUTENG','0824567123','0137896412','12345',16,'12345',1),('CUST9','mvelaseZk@email.com','REGINAH','MVELASE','6208220089084','1789','SOSHANGUVE','1452','WESTERN CAPE','0608382640','0127896412','12345',17,'12345',1),('CUST10','langaST@yahoo.com','STAFF','LANGA','8804137895082','2018','NKOMAZI','1340','NORTH WEST','0714750138','0317896412','12345',18,'12345',1),('CUST11','mxolisi@gmail.com','mxolisi','mbatha','95112355689','kwa guqa ext 10','emalahleni','3880','mpumalanga','079282566','063552233',NULL,21,NULL,1),('CUST12','VV@GMAIL.COM','sbuda','msiza','951222332121','kwaguqa 1566','witbankl','1035','MPUMALANGA','0792523589','0112355514','123456',29,NULL,1),('CUST14','MMXOLISI@GMAIL.COM','MORGAN','NKOSI','951222332121','kwaguqa 1566','witbankl','1035','NORTH WEST','0792523589','0112355514','123456',30,NULL,1),('cust21','123@gmail.com','mpumi','zwane','9411235525225','12345 corination','malahleni','1035','MPUMALANGA','0792525896','1235563','123456',31,NULL,1),(NULL,NULL,NULL,NULL,NULL,NULL,NULL,NULL,NULL,NULL,NULL,NULL,32,NULL,1);

/\*Table structure for table `tbldealer` \*/

DROP TABLE IF EXISTS `tbldealer`;

CREATE TABLE `tbldealer` (

`d\_dealer\_id` int(10) unsigned zerofill NOT NULL AUTO\_INCREMENT,

`d\_dealer\_name` varchar(30) DEFAULT NULL,

`d\_dealer\_province` varchar(30) DEFAULT NULL,

`d\_dealer\_city` varchar(30) DEFAULT NULL,

`d\_dealer\_suburb` varchar(30) DEFAULT NULL,

`d\_dealer\_tell` varchar(15) DEFAULT NULL,

PRIMARY KEY (`d\_dealer\_id`)

) ENGINE=InnoDB AUTO\_INCREMENT=33 DEFAULT CHARSET=latin1;

/\*Data for the table `tbldealer` \*/

insert into `tbldealer`(`d\_dealer\_id`,`d\_dealer\_name`,`d\_dealer\_province`,`d\_dealer\_city`,`d\_dealer\_suburb`,`d\_dealer\_tell`) values (0000000013,'mxola dealer','MPUMALANGA','WITBANK',NULL,'0112325238'),(0000000014,'SKHOSANA','MPUMALANGA','WITBANK','NAMBANAMBA','0112536555'),(0000000015,'MASHOBANE DEALERSHIP','LIMPOMPO','POLOKWANE','REMPE','0112515123'),(0000000016,'zolani','MPUMALANGA','MIDDLEBURG','MTONO','0112515123'),(0000000019,'NKKM DEALERSHIP','MPUMALANGA','MIDDLEBURG','MTONO','0112515123'),(0000000020,'KEKEMA','KZN','DURBAN','NORH','0112515123'),(0000000021,'ZONDI CAR DEALER','WESTERN CAPE','CAPETOWN','NORH','0112515123'),(0000000022,'','','','',''),(0000000023,'ZAMBEZI','KZN','MPANGENI','WEST','0792355852'),(0000000024,'ZAMBEZI','GAUTENG','MPANGENI','WEST','0792355852'),(0000000025,'SKOPO','GAUTENG','MPANGENI','EAST','0792355852'),(0000000026,'SKOPONDO','MPUMALANGA','WITBANK','EAST','0792355852'),(0000000027,'SKOPONDO','MPUMALANGA','MPANGENI','EAST','0792355852'),(0000000028,'SKOPONDO','LIMPOMPO','MPANGENI','WEST','0792355852'),(0000000029,'KHABAZELA','MPUMALANGA','WITBANK','DOWNTOWN','0792825892'),(0000000030,'KHABAZ','GAUTENG','WITBANK','DOWNTOWN','07928258'),(0000000031,'MDALI','MPUMALANGA','WITBANK','DOWNTOWN','0123554555'),(0000000032,'MLINDO','MPUMALANGA','MPANGENI','WW','0111111111');

/\*Table structure for table `tblfeature` \*/

DROP TABLE IF EXISTS `tblfeature`;

CREATE TABLE `tblfeature` (

`f\_feature\_id` int(10) NOT NULL AUTO\_INCREMENT,

`f\_feature\_desc` varchar(150) DEFAULT NULL,

PRIMARY KEY (`f\_feature\_id`)

) ENGINE=InnoDB AUTO\_INCREMENT=13 DEFAULT CHARSET=latin1;

/\*Data for the table `tblfeature` \*/

insert into `tblfeature`(`f\_feature\_id`,`f\_feature\_desc`) values (1,'AIRBAG'),(2,'ABS'),(3,'FCW'),(4,'Climate Control'),(5,'AEB'),(6,'Headup Display'),(7,'Comfortable Seats'),(8,'Heated Seats'),(9,'USB Port'),(10,'Bluetooth'),(11,'SELF DRIVING'),(12,'ABS POWER');

/\*Table structure for table `tblmake` \*/

DROP TABLE IF EXISTS `tblmake`;

CREATE TABLE `tblmake` (

`make\_id` int(11) NOT NULL AUTO\_INCREMENT,

`make` varchar(15) DEFAULT NULL,

PRIMARY KEY (`make\_id`),

UNIQUE KEY `make` (`make`)

) ENGINE=InnoDB AUTO\_INCREMENT=34 DEFAULT CHARSET=latin1;

/\*Data for the table `tblmake` \*/

insert into `tblmake`(`make\_id`,`make`) values (1,'BMW'),(2,'MERCEDES BENZ'),(4,'AUDI '),(5,'NISSAN'),(7,'FORD'),(10,'ISUZU'),(13,'CITROEN'),(29,'MASSERATI'),(30,'JAGUAR'),(31,'ALFA REMEO'),(32,'BANTLEY'),(33,'HUMMER');

/\*Table structure for table `tblmodel` \*/

DROP TABLE IF EXISTS `tblmodel`;

CREATE TABLE `tblmodel` (

`model\_id` int(11) NOT NULL AUTO\_INCREMENT,

`model` varchar(15) DEFAULT NULL,

`make\_id` int(11) NOT NULL,

PRIMARY KEY (`model\_id`),

KEY `FK\_tblmodel` (`make\_id`),

CONSTRAINT `FK\_tblmodel` FOREIGN KEY (`make\_id`) REFERENCES `tblmake` (`make\_id`)

) ENGINE=InnoDB AUTO\_INCREMENT=50 DEFAULT CHARSET=latin1;

/\*Data for the table `tblmodel` \*/

insert into `tblmodel`(`model\_id`,`model`,`make\_id`) values (1,'3 series',1),(2,'A4 RS',4),(3,'CLA',2),(5,'JUKE',5),(6,'Z4',1),(8,'7 SERIES',1),(9,'GTR',5),(10,'GTR',10),(11,'GTR',1),(12,'7 SERIES',13),(13,'rs4',4),(30,'4 SERIES',4),(31,'C1',13),(32,'C-ZERO',13),(33,'C3',13),(34,'C\_ELYSEE',31),(35,'CONTINENTAL',32),(36,'MUSLANNE',32),(37,'FLYING',31),(38,'EXPLORER',7),(39,'ESCAPE SE',7),(40,'H2',33),(41,'GHIBLI',29),(42,'XJ',30),(43,'C\_ELYSEE',31),(44,'C\_ELYSEE',31),(45,'C\_ELYSEE',31),(46,'C\_ELYSEE',31),(47,'C\_ELYSEE',31),(48,'C\_ELYSEE',31),(49,'FLYING',4);

/\*Table structure for table `tblrole` \*/

DROP TABLE IF EXISTS `tblrole`;

CREATE TABLE `tblrole` (

`roleNum` int(3) NOT NULL AUTO\_INCREMENT,

`roleName` varchar(20) DEFAULT NULL,

PRIMARY KEY (`roleNum`)

) ENGINE=InnoDB AUTO\_INCREMENT=4 DEFAULT CHARSET=latin1;

/\*Data for the table `tblrole` \*/

insert into `tblrole`(`roleNum`,`roleName`) values (1,'customer'),(2,'admin'),(3,'superAdmin');

/\*Table structure for table `tblseries` \*/

DROP TABLE IF EXISTS `tblseries`;

CREATE TABLE `tblseries` (

`series\_id` int(11) NOT NULL AUTO\_INCREMENT,

`series` varchar(25) DEFAULT NULL,

`model\_id` int(11) NOT NULL,

PRIMARY KEY (`series\_id`),

KEY `FK\_tblseries` (`model\_id`),

CONSTRAINT `FK\_tblseries` FOREIGN KEY (`model\_id`) REFERENCES `tblmodel` (`model\_id`)

) ENGINE=InnoDB AUTO\_INCREMENT=30 DEFAULT CHARSET=latin1;

/\*Data for the table `tblseries` \*/

insert into `tblseries`(`series\_id`,`series`,`model\_id`) values (6,'m power',1),(7,'3.0 GO',5),(8,'35 AMG',3),(9,'M POWER',6),(11,'750I',8),(12,'super limit',13),(13,'750 SPORT',8),(14,'M2 SPORT',9),(15,'III',33),(16,'EXCLUSIVE',33),(17,'PICASSO',33),(18,'AIRCROSS II',33),(19,'II',31),(20,'a rebadged Mitsubishi i-M',32),(21,'GT',35),(22,'SPEED',36),(23,'WHEELBASE',34),(24,'WHEELBASE',36),(25,'XLT',38),(26,'SUV',39),(27,'GIANT',40),(28,'GRANT TORISMO',41),(29,'22',42);

/\*Table structure for table `tblsysadmin` \*/

DROP TABLE IF EXISTS `tblsysadmin`;

CREATE TABLE `tblsysadmin` (

`username` varchar(20) NOT NULL,

`surname` varchar(20) DEFAULT NULL,

`name` varchar(20) DEFAULT NULL,

`password` varchar(20) DEFAULT NULL,

`cellNo` varchar(12) DEFAULT NULL,

`roleNum` int(4) DEFAULT NULL,

PRIMARY KEY (`username`)

) ENGINE=InnoDB DEFAULT CHARSET=latin1;

/\*Data for the table `tblsysadmin` \*/

insert into `tblsysadmin`(`username`,`surname`,`name`,`password`,`cellNo`,`roleNum`) values ('mxola','mbatha','mxolisi','123456','0792825892',3);

/\*Table structure for table `tblvehicle` \*/

DROP TABLE IF EXISTS `tblvehicle`;

CREATE TABLE `tblvehicle` (

`v\_vehicle\_id` int(10) NOT NULL AUTO\_INCREMENT,

`m\_make\_id` int(4) DEFAULT NULL,

`m\_model\_id` int(4) DEFAULT NULL,

`s\_series\_id` int(4) DEFAULT NULL,

PRIMARY KEY (`v\_vehicle\_id`),

KEY `FK\_tblvehicle` (`m\_make\_id`),

KEY `FK\_tblvehicleR` (`m\_model\_id`),

KEY `FK\_tblvehicleRL` (`s\_series\_id`),

CONSTRAINT `FK\_tblvehicle` FOREIGN KEY (`m\_make\_id`) REFERENCES `tblmake` (`make\_id`),

CONSTRAINT `FK\_tblvehicleR` FOREIGN KEY (`m\_model\_id`) REFERENCES `tblmodel` (`model\_id`),

CONSTRAINT `FK\_tblvehicleRL` FOREIGN KEY (`s\_series\_id`) REFERENCES `tblseries` (`series\_id`)

) ENGINE=InnoDB AUTO\_INCREMENT=25 DEFAULT CHARSET=latin1;

/\*Data for the table `tblvehicle` \*/

insert into `tblvehicle`(`v\_vehicle\_id`,`m\_make\_id`,`m\_model\_id`,`s\_series\_id`) values (1,1,1,6),(2,5,5,7),(3,2,3,8),(4,1,6,9),(6,1,8,11),(7,4,13,12),(8,1,8,13),(9,5,9,14),(10,13,33,15),(11,13,33,16),(12,13,33,17),(13,13,33,18),(14,13,31,19),(15,13,32,20),(16,32,35,21),(17,32,36,22),(18,31,34,23),(19,32,36,24),(20,7,38,25),(21,7,39,26),(22,33,40,27),(23,29,41,28),(24,30,42,29);

/\* Procedure structure for procedure `AddVehicle` \*/

/\*!50003 DROP PROCEDURE IF EXISTS `AddVehicle` \*/;

DELIMITER $$

/\*!50003 CREATE DEFINER=`root`@`localhost` PROCEDURE `AddVehicle`(

IN se\_series varchar(50),

IN model\_id int(5)

)

BEGIN

insert into tblseries(series,model\_id)

values (se\_series, model\_id);

insert into tblvehicle(m\_make\_id, m\_model\_id,s\_series\_id)

values((select ma.make\_id

from tblmake ma, tblmodel mo, tblseries s

where ma.make\_id = mo.make\_id

and mo.model\_id = s.model\_id

and s.series\_id = (select max(series\_id)

from tblseries)),(select mo.model\_id

from tblmake ma, tblmodel mo, tblseries s

where ma.make\_id = mo.make\_id

and mo.model\_id = s.model\_id

and s.series\_id = (select max(series\_id)

from tblseries)),(select s.series\_id

from tblmake ma, tblmodel mo, tblseries s

where ma.make\_id = mo.make\_id

and mo.model\_id = s.model\_id

and s.series\_id = (select max(series\_id)

from tblseries)));

END \*/$$

DELIMITER ;

/\* Procedure structure for procedure `AddVehicleFeature` \*/

/\*!50003 DROP PROCEDURE IF EXISTS `AddVehicleFeature` \*/;

DELIMITER $$

/\*!50003 CREATE DEFINER=`root`@`localhost` PROCEDURE `AddVehicleFeature`(

IN vID int(8),

IN feature varchar(50)

)

BEGIN

DECLARE fid int(10);

SELECT f\_feature\_id INTO fid

FROM tblfeature

WHERE f\_feature\_desc = feature;

INSERT INTO vehicle\_feature(f\_feature\_id,v\_vehicle\_id)

VALUES(fid,vID);

END \*/$$

DELIMITER ;

/\* Procedure structure for procedure `deleteCustomer` \*/

/\*!50003 DROP PROCEDURE IF EXISTS `deleteCustomer` \*/;

DELIMITER $$

/\*!50003 CREATE DEFINER=`root`@`localhost` PROCEDURE `deleteCustomer`( IN cust\_id int(4))

BEGIN

delete from cust\_search

where c\_cust\_id = cust\_id;

delete from tblcustomer

where c\_cust\_id = cust\_id;

END \*/$$

DELIMITER ;

/\* Procedure structure for procedure `deleteVehicle` \*/

/\*!50003 DROP PROCEDURE IF EXISTS `deleteVehicle` \*/;

DELIMITER $$

/\*!50003 CREATE DEFINER=`root`@`localhost` PROCEDURE `deleteVehicle`( IN reg varchar(25))

BEGIN

delete from dv\_feature

where dv\_reg\_no = reg;

delete from dealer\_vehicle

where dv\_reg\_no = reg;

END \*/$$

DELIMITER ;

/\* Procedure structure for procedure `regDealer` \*/

/\*!50003 DROP PROCEDURE IF EXISTS `regDealer` \*/;

DELIMITER $$

/\*!50003 CREATE DEFINER=`root`@`localhost` PROCEDURE `regDealer`(

IN dName varchar(30),

IN dProv varchar(15),

IN dCity varchar(20),

IN dSub varchar(20),

IN dTell varchar(13),

IN aName varchar(30),

IN aSurName varchar(30),

IN aID varchar(13),

IN aCell varchar(13),

IN aTell varchar(13),

IN aPBox varchar(30),

IN aPCity varchar(30),

IN aPCode varchar(5),

IN aUsername varchar(40),

IN aPassword varchar(30),

IN aRecPassword varchar(30)

)

BEGIN

DECLARE v\_dealerID INT(8);

INSERT INTO tbldealer(d\_dealer\_name,d\_dealer\_province,d\_dealer\_city,d\_dealer\_suburb,d\_dealer\_tell)

VALUES (dName,dProv,dCity,dSub,dTell);

SELECT MAX(d\_dealer\_id)

INTO v\_dealerID

FROM tbldealer;

INSERT INTO tbladministrator(ad\_username,ad\_first\_name,ad\_last\_name,ad\_cell\_no,ad\_tell\_no,ad\_postBox,ad\_postCity,ad\_postCode,ad\_province,ad\_password,ad\_recovery\_pswd,d\_dealer\_id)

VALUES(aUsername,aName,aSurname,aCell,aTell,aPBox,aPCity,aPCode,aProv,aPassword,aRecPassword,v\_dealerID);

END \*/$$

DELIMITER ;

/\* Procedure structure for procedure `SearchedCustReport` \*/

/\*!50003 DROP PROCEDURE IF EXISTS `SearchedCustReport` \*/;

DELIMITER $$

/\*!50003 CREATE DEFINER=`root`@`localhost` PROCEDURE `SearchedCustReport`()

BEGIN

SELECT V.v\_make AS "Vehicle Make", V.v\_model AS "Vehicle Model", V.v\_series AS "Vehicle Series", V.v\_year AS "Vehicle Year", F.f\_feature\_desc AS "Feature Description", C.c\_email\_address AS "Customer email", S.cs\_cust\_date AS "Searched Date"

FROM tblvehicle V, tblfeature F, cust\_search S, tblcustomer C, vehicle\_feature T

WHERE cs\_results = 'available'

AND S.v\_vehicle\_id = V.v\_vehicle\_id

AND S.c\_cust\_id = C.c\_cust\_id

AND V.v\_vehicle\_id = T.v\_vehicle\_id

AND T.f\_feature\_id = F.f\_feature\_id;

END \*/$$

DELIMITER ;

/\*!40101 SET SQL\_MODE=@OLD\_SQL\_MODE \*/;

/\*!40014 SET FOREIGN\_KEY\_CHECKS=@OLD\_FOREIGN\_KEY\_CHECKS \*/;