**Customer, Inventory, and Payment Tracking System**

**Automobile Dealership**

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***Overview***

The Boston automobile dealership has been operating for the past 10 years and on their 11th anniversary have decided to take their operational services to the next level by offering future customers extra services meant to make the lives of their customers easy. These services include car maintenance updates, car upgrade updates and custom insurance packages meant to fit and ensure the needs of each vehicle. In order to achieve this we have been requested to design and create a database that would help our client store, update and report the data efficiently.

***Pain Points***

Without a database to support their aspirations the automobile dealership would have problems deciding which cars are due for an upgrade and which car are not due for an upgrade yet. Creating a database to address this aspect of their business proposal allows the automobile dealership to eliminate human error in handing out upgrades to deserved customers, a database also allows for the easier tracking of customers deserving an upgrade. The second pain point that can be associated with this database is through the maintenance services. This pain point would be inadvertently choosing a car not due for a maintenance check. Making a simple mistake of choosing the wrong car not only is a waste of time for both the dealership and customer but is also a waste of money because the maintenance stuff would still have to be paid for his time although not required in the end time. The third pain point would be knowing how much customers have left on their payment plan after they make a payment. The last pain point would be making sure that every customer is assigned only one insurance plan when they sign up for the insurance services offered at the automobile dealership.

***Actionable Insights:***

* The introduction of a database system would allow for a more efficient provision of services to clients. By storing various information of cars within the dealership, customers would be able to have easier and quicker access to information on cars within the system database.
* The dealership would be able to identify customers with an outstanding balance
* The dealership would be able to identify customers who are due for a maintenance schedule checkup in the future.
* Customers would be able to find their assigned maintenance staff and their location within the dealership’s premises.
* The dealership would be able to identify cars not sold and still available within their inventory.
* Customers would be able to know when they are due for a car upgrade and the fee associated with that upgrade
* Customers who are interested in any of the insurance plans available would be able to view and compare the available insurance plans.
* Through the database the dealership would be able to monitor the progress of each employee through the jobs fulfilled section under the maintenance staff table.
* The dealership would be able to find the average price per car depending on its model.

### *****Flowchart/ Information Flow of System*****

When we attain a new customer, we want to store the personal details for each customer and identify each customer by their own unique customer id. As soon as a customer places an order and is given their car, a car id is then associated to their customer id. All cars in our inventory are given car id’s, these unique identification numbers are created for each car in our inventory and they contain each car’s information. This car id is used to identify each car in both our inventory and sold cars. Customers are also given the option to subscribe to a payment plan that gives them the option to pay in yearly or monthly installments. After every purchase, customers are still kept in our database in order to extend our extra services to them after they have been giving their car. They are offered our in house car insurance special which comes in four different types to cater for customers with different needs and budgets. Each car id along with the customer id are also placed in a maintenance table so that when a car is due for any of the many maintenance scheduled for each car the customer of that car could be easily traced and informed. Each car is also allocated a maintenance staff that would be responsible for every maintenance issue associated with that specific car, every maintenance staff’s information including their names, position, experience, successful jobs fulfilled and years with the company would also be recorded in order to keep track of the process of each employee as the years pass by. Along with each maintenance staff recorded in the database, their building location, address and city would also be recorded in order to facilitate easy location of the maintenance staff for customers. After a few years every customer is given the option to upgrade their car through the dealership’s upgrade feature for a small fee.

***Key Entities in the System***

* Customer: This database entity is responsible for holding customer information. It holds customer names, phone numbers, locations and age. Its primary key is the customer ID used to identify each customer.
* Inventory: The inventory entity is used to store all the car’s available for sale within the automobile dealership. Its primary key is called Car Id and it used to identify each car. The Car Id starts from 100 onwards.
* Sale: Sale is another entity that holds both customer Id and Car Id, it matches each customer to the car they purchased. It also has attached the car value and date of purchase of the car.
* Car Payment Plan: The car payment plan gives customers the option to enroll in a payment plan, customers can either choose the yearly or monthly payment plan. The main columns included in this table are customer Id, car Id, plan type and payment owned.
* Insurance Plans: This entity is home to the insurance Id primary key and stores the different insurance plans available to customers.
* Insurance: The insurance entity is meant to store the different insurance plans different customers purchased
* Maintenance Schedule: The maintenance schedule entity has the record of purchased cars’ scheduled maintenance checkup. It contains customer Id, car Id and dates for different maintenance checkups.
* Maintenance Staff: This entity only serves to store the different staff on hand who would be working on the different cars that come in for their scheduled maintenance. Included in this table are their staff position, years within the company and the amount of jobs fulfilled by each person.
* Maintenance Location: This table pinpoints each maintenance staff to their location within the automobile’ dealership complex. This is helpful when customers need to locate their assigned staff’s when trying to get their car checked.
* Car Upgrades: The car upgrade entity is meant to provide customers the chance to upgrade their cars for a small fee and it includes the current car Id, the car model and the future upgrade car model along with the upgrade date and fee.

***Entity-Relational (ER) Model***Diagram

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***Actionable Insight SQL Queries:***

* The introduction of a database system would allow for a more efficient provision of services to clients. By storing various information of cars within the dealership, customers would be able to have easier and quicker access to information on cars within the system database.

*select \* from Inventory;*

A picture containing text, scoreboard

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* The dealership would be able to identify customers with an outstanding balance.

*select cust.Customer\_name, cust.Customer\_id, cust.Phone\_Number, pln.Payment\_Plan*

*from Customers cust, Payment\_Plan pln*

*where cust.Customer\_id = pln.Customer\_id*

*and Payment\_Received >0;*

A picture containing text, scoreboard

Description automatically generated

* The dealership would be able to identify customers who are due for a maintenance schedule checkup in the future.

*select main.Customer\_id,cus.phone\_number,main.Oil\_Change,main.Tire\_Change,main.Engine\_Tune,main.Battery\_Check,main.Body\_Paint*

*from maintenance\_schedule main,customers cus*

*where main.customer\_id=cus.customer\_id*

*and main.Oil\_Change>date(Now())*

*and main.Tire\_Change>date(Now())*

*and main.Engine\_Tune>date(Now())*

*and main.Battery\_Check>date(Now())*

*and main.Body\_Paint>date(Now());*

A picture containing text, scoreboard

Description automatically generated

* Customers would be able to find their assigned maintenance staff and their location within the dealership’s premises.

*select cust.Customer\_name,maint.Staff\_ID, stf.Staff\_Name,loc.Address ,loc.Building,loc.City*

*from Customers cust, Maintenance\_Schedule maint, Maintenance\_Staff stf, Maintenance\_Location loc*

*where cust.Customer\_id = maint.Customer\_ID*

*and maint.Staff\_ID = stf.Staff\_ID*

*and stf.Staff\_ID = loc.Staff\_Id;*

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* The dealership would be able to identify cars not sold and still available within their inventory.

*select \* from Inventory*

*where car\_ID not in (select car\_ID from Sale);*

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Description automatically generated*

* Customers would be able to know when they are due for a car upgrade and the fee associated with that upgrade

*select cust.Customer\_name, upgrd.Upgrade\_Date, upgrd.Upgrade\_fee*

*from Customers cust, Car\_Upgrades upgrd*

*where cust.Customer\_id = upgrd.Customer\_iD*

*order by Customer\_name asc;*

Table

Description automatically generated

* Customers who are interested in any of the insurance plans available would be able to view and compare the available insurance plans.

*Select \* from Insurance\_Plans;*

A picture containing chart

Description automatically generated

* Through the database the dealership would be able to monitor the progress of each employee through the jobs fulfilled section under the maintenance staff table.

*Select Staff\_ID, Staff\_Name, Phone\_Number, Jobs\_Fulfilled from Maintenance\_Staff;*

Table

Description automatically generated

* The dealership would be able to find the average price per car depending on its model.

*select inv.model,avg(sal.Sale\_Price)*

*from sale sal,Inventory inv*

*group by inv.Model;*

Table

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***Detailed SQL Procedures:***

***Procedure #1***

**Input:** in\_price

**Output:** None

**Objective:** This procedure is Honda and its main purpose is to update the price of all Honda cars within the inventory table. The procedures input is the desired price and it only updates the price of Honda cars.

***CREATE DEFINER=`root`@`localhost` PROCEDURE `Honda`(IN in\_price INT)***

***BEGIN***

***DECLARE done INT DEFAULT FALSE;***

***DECLARE v VARCHAR(40);***

***DECLARE cur1 CURSOR FOR***

***select Car\_Manufacturer***

***from Inventory;***

***DECLARE CONTINUE HANDLER FOR NOT FOUND SET done = TRUE;***

***OPEN cur1;***

***read\_loop: LOOP***

***FETCH cur1 into v;***

***IF done THEN***

***LEAVE read\_loop;***

***END IF;***

***If v="Honda" THEN***

***update Inventory***

***set Price = in\_price***

***where Car\_Manufacturer = v;***

***END IF;***

***END LOOP;***

***END***

***Sample results using CALL function:***

***call Honda(0);***

***SELECT \* FROM Inventory where Car\_Manufacturer="Honda";***

***Table

Description automatically generated***

***call Honda(8888877);***

***SELECT \* FROM Inventory where Car\_Manufacturer="Honda";***

***Table

Description automatically generated***

***call Honda(8000);***

***SELECT \* FROM Inventory where Car\_Manufacturer="Honda";***

***Table

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***Procedure #2***

**Input:** *Customer\_ID* (Customer’s ID number, data type: INT)

**Output:** None

**Objective:** This procedure aims to screen customers’ payment status in terms of the outstanding balance on their account. The procedure’s input is the Customer’s ID, and calling the procedure using this ID as an input shows the customer’s name, email, contact number, payment owed, and due date of said amount.

***To create the procedure:***

CREATE PROCEDURE `Amounts\_Owed\_by\_Customers` (IN Customer\_ID INT)

BEGIN

SELECT cust.Customer\_Name AS Name, cust.Email AS Customer\_Email, cust.Phone\_Number AS Contact\_Number, pmt.Payment\_Plan AS Plan\_Type, pmt.Payment\_Owned AS Amount\_Due, pmt.Due\_Date as Date\_Due

FROM Payment\_Plan pmt

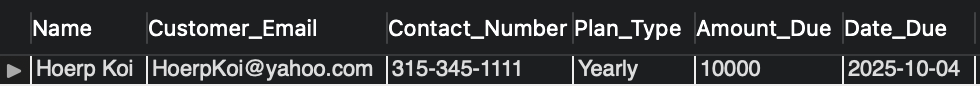
JOIN Customers cust

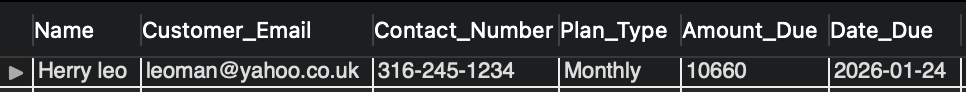
ON pmt.Customer\_ID = cust.Customer\_ID

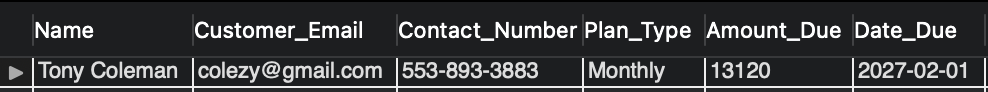
WHERE pmt.customer\_ID = Customer\_ID;

END

***Sample Results using CALL function:***

****CALL `Amounts\_Owed\_By\_Customers`("555");

CALL `Amounts\_Owed\_By\_Customers`("564");

****CALL `Amounts\_Owed\_By\_Customers`("555");

***Appendix:***

***Car Upgrades:***

***DROP TABLE IF EXISTS `Car\_Upgrades`;***

***/\*!40101 SET @saved\_cs\_client = @@character\_set\_client \*/;***

***/\*!50503 SET character\_set\_client = utf8mb4 \*/;***

***CREATE TABLE `Car\_Upgrades` (***

***`Car\_Id` int NOT NULL,***

***`Customer\_ID` int NOT NULL,***

***`Car\_Manufacturer` varchar(45) NOT NULL,***

***`Upgrade\_Date` date NOT NULL,***

***`Upgrade\_Model` varchar(45) NOT NULL,***

***`Upgrade\_Year\_of\_manufacture` int NOT NULL,***

***`Upgrade\_fee` int NOT NULL,***

***PRIMARY KEY (`Car\_Id`,`Customer\_ID`)***

***) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4\_0900\_ai\_ci;***

***/\*!40101 SET character\_set\_client = @saved\_cs\_client \*/;***

***INSERT INTO `Car\_Upgrades` VALUES (100,555,'Toyota','2024-10-04','KIA',2024,10000),(101,556,'Honda','2024-10-05','Honda',2023,10000),(102,557,'KIA','2024-10-06','Toyota',2023,10000),(103,558,'Volkswagen','2024-10-07','Ford',2023,10000),(104,559,'BMW','2024-10-08','Porsche',2023,10000),(105,560,'Porsche','2025-01-20','Tesla',2023,10000),(106,561,'Ford','2025-01-21','Toyota',2023,10000),(107,562,'Nissan','2025-01-22','Honda',2023,10000),(108,563,'Toyota','2025-01-23','Ford',2023,10000),(109,564,'Honda','2025-01-24','BMW',2025,10000),(110,565,'KIA','2026-01-30','Toyota',2025,10000),(111,566,'Toyota','2026-01-31','Ford',2025,10000),(112,567,'Honda','2026-02-01','Nissan',2025,10000),(113,568,'KIA','2026-02-02','Toyota',2025,10000),(114,569,'Volkswagen','2026-02-03','Honda',2025,10000),(115,570,'BMW','2026-02-04','Porsche',2025,10000);***

***/\*!40000 ALTER TABLE `Car\_Upgrades` ENABLE KEYS \*/***

***Customers:***

***DROP TABLE IF EXISTS `Customers`;***

***/\*!40101 SET @saved\_cs\_client = @@character\_set\_client \*/;***

***/\*!50503 SET character\_set\_client = utf8mb4 \*/;***

***CREATE TABLE `Customers` (***

***`Customer\_ID` int NOT NULL,***

***`Customer\_Name` varchar(100) NOT NULL,***

***`Email` varchar(100) NOT NULL,***

***`Gender` varchar(50) NOT NULL,***

***`Age` int NOT NULL,***

***`Phone\_Number` varchar(100) NOT NULL,***

***`Address` varchar(100) NOT NULL,***

***`City` varchar(50) NOT NULL,***

***`Zip\_Code` int NOT NULL,***

***PRIMARY KEY (`Customer\_ID`)***

***) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4\_0900\_ai\_ci;***

***/\*!40101 SET character\_set\_client = @saved\_cs\_client \*/;***

***INSERT INTO `Customers` VALUES (555,'Hoerp Koi','HoerpKoi@yahoo.com','Female',45,'315-345-1111','34 Avenue ','Boston',11122),(556,'Herd Loer','Loerk@yahoo.com','Male',42,'315-345-1112','45 Street ','Boston',11224),(557,'Kylan Mape','Mape123@yahoo.com','Male',23,'315-345-1113','33 Brook st ','Boston',21346),(558,'John cena','john@yahoo.com','Male',19,'315-345-1114','983 St Avenue','Boston',14508),(559,'Randy Orton','randy@yahoo.com','Male',22,'315-345-1115','22 Hallowth st','Boston',41600),(560,'Rey mysterio','rey@yahoo.com','Male',52,'315-345-1116','3944 Ring road avenue','Boston',16692),(561,'Charlie Brown','CH@yahoo.com','Male',23,'315-245-0012','34 Harley St','Boston',20119),(562,'Greg Hale','gregs@yahoo.com','Male',44,'315-245-0014','21 Berly St','Boston',20120),(563,'Dalu Mozie','mchidalu@gmail.com','Female',23,'316-245-1233','5 High St Pl','Boston',20127),(564,'Herry leo','leoman@yahoo.co.uk','Male',25,'316-245-1234','44 Adelaide Park','Boston',62039),(565,'Sam Cohen','cohen@gmail.com','Male',45,'316-245-1235','66 Airplane Avenue','Boston',63940),(566,'Yousuf Quadri','quadrii@outlook.com','Male',26,'553-893-3882','2nd Michigan Avenue','Boston',77393),(567,'Tony Coleman','colezy@gmail.com','Male',28,'553-893-3883','200 Airport St','Boston',873044),(568,'Naquan Brown','brownfor@yahoo.com','Male',29,'553-893-3884','21 Clerly St','New Hampshire',219872),(569,'Alexander Siopy','siophy@gmail.com','Male',33,'553-893-3885','45 Andreas Avenue','New Hampshire',222347),(570,'James Brown','jbrown@ubank.com','Male',45,'553-893-3886','42 Churchill St','New Hampshire',219208);***

***/\*!40000 ALTER TABLE `Customers` ENABLE KEYS \*/;***

***Insurance\_Plan:***

***DROP TABLE IF EXISTS `Insurance\_Plans`;***

***/\*!40101 SET @saved\_cs\_client = @@character\_set\_client \*/;***

***/\*!50503 SET character\_set\_client = utf8mb4 \*/;***

***CREATE TABLE `Insurance\_Plans` (***

***`Insurance\_Id` int NOT NULL,***

***`Insurance\_type` varchar(45) NOT NULL,***

***`Length\_of\_Coverage` varchar(45) NOT NULL,***

***`Insurance\_quote` varchar(45) NOT NULL,***

***`Coverage(%)` int NOT NULL,***

***PRIMARY KEY (`Insurance\_Id`)***

***) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4\_0900\_ai\_ci;***

***/\*!40101 SET character\_set\_client = @saved\_cs\_client \*/;***

***--***

***-- Dumping data for table `Insurance\_Plans`***

***--***

***LOCK TABLES `Insurance\_Plans` WRITE;***

***/\*!40000 ALTER TABLE `Insurance\_Plans` DISABLE KEYS \*/;***

***INSERT INTO `Insurance\_Plans` VALUES (2345,'Basic','1','1,000',20),(2347,'Comprehensive','1','1,500',40),(2349,'Premium','1','2,000',60),(2350,'Gold','1','3,000',100);***

***/\*!40000 ALTER TABLE `Insurance\_Plans` ENABLE KEYS \*/;***

***Insurance:***

***DROP TABLE IF EXISTS `Insurance`;***

***/\*!40101 SET @saved\_cs\_client = @@character\_set\_client \*/;***

***/\*!50503 SET character\_set\_client = utf8mb4 \*/;***

***CREATE TABLE `Insurance` (***

***`Insurance\_Id` int NOT NULL,***

***`Car\_Id` int NOT NULL,***

***`Issue\_date` date NOT NULL,***

***`Expiration\_date` date NOT NULL,***

***PRIMARY KEY (`Insurance\_Id`,`Car\_Id`)***

***) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4\_0900\_ai\_ci;***

***/\*!40101 SET character\_set\_client = @saved\_cs\_client \*/;***

***--***

***-- Dumping data for table `Insurance`***

***--***

***LOCK TABLES `Insurance` WRITE;***

***/\*!40000 ALTER TABLE `Insurance` DISABLE KEYS \*/;***

***INSERT INTO `Insurance` VALUES (2345,100,'2019-10-04','2020-10-04'),(2345,107,'2020-01-22','2021-01-22'),(2345,110,'2021-01-30','2022-01-30'),(2347,101,'2019-10-05','2020-10-05'),(2347,105,'2020-01-20','2021-01-20'),(2347,108,'2020-01-23','2021-01-23'),(2347,111,'2021-02-01','2022-01-31'),(2349,102,'2019-10-06','2020-10-06'),(2349,106,'2020-01-21','2021-01-21'),(2349,109,'2020-01-24','2021-01-24'),(2349,112,'2021-02-03','2022-02-01'),(2349,114,'2020-05-20','2021-05-20'),(2351,103,'2019-10-07','2020-10-07'),(2351,104,'2019-10-08','2020-10-08'),(2351,113,'2021-02-05','2022-02-02'),(2351,115,'2020-05-21','2021-05-21');***

***/\*!40000 ALTER TABLE `Insurance` ENABLE KEYS \*/;***

***Inventory:***

***DROP TABLE IF EXISTS `Inventory`;***

***/\*!40101 SET @saved\_cs\_client = @@character\_set\_client \*/;***

***/\*!50503 SET character\_set\_client = utf8mb4 \*/;***

***CREATE TABLE `Inventory` (***

***`Car\_ID` int NOT NULL,***

***`Car\_Manufacturer` varchar(45) NOT NULL,***

***`Condition` varchar(45) NOT NULL,***

***`Transmission` varchar(45) NOT NULL,***

***`Year\_of\_Manufacturer` int NOT NULL,***

***`Fuel\_Type` varchar(45) NOT NULL,***

***`Model` varchar(45) NOT NULL,***

***`Price` int NOT NULL,***

***PRIMARY KEY (`Car\_ID`)***

***) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4\_0900\_ai\_ci;***

***/\*!40101 SET character\_set\_client = @saved\_cs\_client \*/;***

***--***

***-- Dumping data for table `Inventory`***

***--***

***LOCK TABLES `Inventory` WRITE;***

***/\*!40000 ALTER TABLE `Inventory` DISABLE KEYS \*/;***

***INSERT INTO `Inventory` VALUES (100,'Toyota','New','Automatic',2003,'Petrol','camry',20000),(101,'KIA','New','Automatic',2019,'Diesel','Coupe',30000),(102,'Honda','New','Manual',2017,'Petrol','Civic',11000),(103,'Toyota','New','Automatic',2020,'Petrol','Sienna',12334),(104,'Honda','New','Manual',2021,'Petrol','CR-V',44455),(105,'Toyota','Fair','Automatic',2003,'Diesel','Corolla',5000),(106,'KIA','Old','Automatic',2004,'Petrol','Slim E3',20000),(107,'Honda','Fair','Manual',2008,'Diesel','Pilot',22000),(108,'Toyota','Old','Automatic',2009,'Petrol','Corolla',24000),(109,'Honda','New','Manual',2015,'Petrol','Passport',26000),(110,'Volkswagen','New','Automatic',2014,'Diesel','Tetra',28000),(111,'BMW','New','Automatic',2016,'Petrol','M4',30000),(112,'Porsche','New','Automatic',2018,'Petrol','Cayman',32000),(113,'Honda','New','Manual',2020,'Diesel','Pilot',30000),(114,'Ford','New','Automatic',2018,'Petrol','F-150',31000),(115,'Nissan','New','Automatic',2020,'Petrol','S4',32000),(116,'Sedan','Old','Manual',2006,'Petrol','Sentra',3000),(117,'Hyundai','New','Automatic',2019,'Diesel','Sonia',11000),(118,'Audi','New','Automatic',2020,'Diesel','A8',20000),(119,'Cadillac','New','Automatic',2021,'Diesel','Escalade',40000),(120,'Ford','New','Automatic',2019,'Petrol','Mustang',14000),(121,'Toyota','New','Automatic',2018,'Petrol','Highlander',28000),(122,'Tesla','New','Automatic',2020,'Petrol','S3',80000),(123,'Lamborghini','New','Automatic',2020,'Petrol','Avator',200000);***

***/\*!40000 ALTER TABLE `Inventory` ENABLE KEYS \*/;***

***Maintenance\_location:***

***DROP TABLE IF EXISTS `Maintenance\_Location`;***

***/\*!40101 SET @saved\_cs\_client = @@character\_set\_client \*/;***

***/\*!50503 SET character\_set\_client = utf8mb4 \*/;***

***CREATE TABLE `Maintenance\_Location` (***

***`Staff\_Id` int NOT NULL,***

***`Building` varchar(45) NOT NULL,***

***`Address` varchar(45) NOT NULL,***

***`City` varchar(45) NOT NULL,***

***PRIMARY KEY (`Staff\_Id`)***

***) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4\_0900\_ai\_ci;***

***/\*!40101 SET character\_set\_client = @saved\_cs\_client \*/;***

***--***

***-- Dumping data for table `Maintenance\_Location`***

***--***

***LOCK TABLES `Maintenance\_Location` WRITE;***

***/\*!40000 ALTER TABLE `Maintenance\_Location` DISABLE KEYS \*/;***

***INSERT INTO `Maintenance\_Location` VALUES (23,'Block A','23th washington Street ','Peoria'),(24,'Block D','23th washington Street ','Peoria'),(35,'Block C','23th washington Street ','Peoria'),(40,'Block A','23th washington Street ','Peoria');***

***/\*!40000 ALTER TABLE `Maintenance\_Location` ENABLE KEYS \*/;***

***Maintenance\_Schedule:***

***DROP TABLE IF EXISTS `Maintenance\_Schedule`;***

***/\*!40101 SET @saved\_cs\_client = @@character\_set\_client \*/;***

***/\*!50503 SET character\_set\_client = utf8mb4 \*/;***

***CREATE TABLE `Maintenance\_Schedule` (***

***`Car\_ID` int NOT NULL,***

***`Customer\_ID` int NOT NULL,***

***`Staff\_ID` int NOT NULL,***

***`Purchase\_Date` date NOT NULL,***

***`Oil\_Change` date NOT NULL,***

***`Tire\_Change` date NOT NULL,***

***`Engine\_Tune` date NOT NULL,***

***`Battery\_Check` date NOT NULL,***

***`Body\_Paint` date NOT NULL,***

***PRIMARY KEY (`Car\_ID`,`Customer\_ID`,`Staff\_ID`)***

***) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4\_0900\_ai\_ci;***

***/\*!40101 SET character\_set\_client = @saved\_cs\_client \*/;***

***--***

***-- Dumping data for table `Maintenance\_Schedule`***

***--***

***LOCK TABLES `Maintenance\_Schedule` WRITE;***

***/\*!40000 ALTER TABLE `Maintenance\_Schedule` DISABLE KEYS \*/;***

***INSERT INTO `Maintenance\_Schedule` VALUES (100,555,23,'2019-10-04','2020-10-04','2021-10-04','2023-10-04','2023-11-04','2033-10-04'),(101,556,24,'2019-10-05','2020-10-05','2021-10-05','2023-10-05','2023-11-05','2033-10-05'),(102,557,35,'2019-10-06','2020-10-06','2021-10-06','2023-10-06','2023-11-06','2033-10-06'),(103,558,40,'2019-10-07','2020-10-07','2021-10-07','2023-10-07','2023-11-07','2033-10-07'),(104,559,23,'2019-10-08','2020-10-08','2021-10-08','2023-10-08','2023-11-08','2033-10-08'),(105,560,24,'2020-01-20','2021-01-20','2022-01-20','2024-01-21','2024-02-01','2034-01-21'),(106,561,35,'2020-01-21','2021-01-21','2022-01-21','2024-01-22','2024-02-02','2034-01-22'),(107,562,24,'2020-01-22','2021-01-22','2022-01-22','2024-01-23','2024-02-03','2034-01-23'),(108,563,23,'2020-01-23','2021-01-23','2022-01-23','2024-01-24','2024-02-04','2034-01-24'),(109,564,23,'2020-01-24','2021-01-24','2022-01-24','2024-01-25','2024-02-05','2034-01-25'),(110,565,24,'2021-01-30','2022-01-30','2023-01-30','2025-01-30','2025-03-15','2035-01-30'),(111,566,35,'2021-02-01','2022-01-31','2023-01-31','2025-01-31','2025-03-16','2035-01-31'),(112,567,40,'2021-02-03','2022-02-01','2023-02-01','2025-02-01','2025-03-17','2035-02-01'),(113,568,23,'2021-02-05','2022-02-02','2023-02-02','2025-02-02','2025-03-18','2035-02-02'),(114,569,24,'2020-05-20','2021-02-28','2023-02-03','2025-02-03','2025-03-19','2035-02-03'),(115,570,40,'2020-05-21','2021-05-22','2023-02-04','2025-02-04','2025-03-20','2035-02-04');***

***/\*!40000 ALTER TABLE `Maintenance\_Schedule` ENABLE KEYS \*/;***

***Maintenance\_Staff:***

***DROP TABLE IF EXISTS `Maintenance\_Staff`;***

***/\*!40101 SET @saved\_cs\_client = @@character\_set\_client \*/;***

***/\*!50503 SET character\_set\_client = utf8mb4 \*/;***

***CREATE TABLE `Maintenance\_Staff` (***

***`Staff\_ID` int NOT NULL,***

***`Staff\_Name` varchar(45) NOT NULL,***

***`Years\_in\_company` int NOT NULL,***

***`Phone\_Number` varchar(50) NOT NULL,***

***`Expertise\_level` varchar(45) NOT NULL,***

***`Jobs\_Fulfilled` int NOT NULL,***

***`Staff\_Position` varchar(45) NOT NULL,***

***PRIMARY KEY (`Staff\_ID`)***

***) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4\_0900\_ai\_ci;***

***/\*!40101 SET character\_set\_client = @saved\_cs\_client \*/;***

***--***

***-- Dumping data for table `Maintenance\_Staff`***

***--***

***LOCK TABLES `Maintenance\_Staff` WRITE;***

***/\*!40000 ALTER TABLE `Maintenance\_Staff` DISABLE KEYS \*/;***

***INSERT INTO `Maintenance\_Staff` VALUES (23,'Hewro ',3,'348-893-0992','Novice',250,'Associate'),(24,'Jerry ',4,'348-893-0993','Proficient',200,'Associate'),(35,'Loeonard ',10,'348-893-0994','Expert',3000,'Supervisor'),(40,'Leah ',6,'348-978-0099','Proficient',1000,'Associate');***

***/\*!40000 ALTER TABLE `Maintenance\_Staff` ENABLE KEYS \*/;***

***Payment\_Plan:***

***DROP TABLE IF EXISTS `Payment\_Plan`;***

***/\*!40101 SET @saved\_cs\_client = @@character\_set\_client \*/;***

***/\*!50503 SET character\_set\_client = utf8mb4 \*/;***

***CREATE TABLE `Payment\_Plan` (***

***`Payment\_ID` int NOT NULL,***

***`Customer\_ID` int NOT NULL,***

***`Date\_of\_Purchase` date NOT NULL,***

***`Payment\_Plan` varchar(45) NOT NULL,***

***`Total\_Payment` int NOT NULL,***

***`Payment\_Received` int NOT NULL,***

***`Payment\_Owned` int NOT NULL,***

***`Due\_Date` date NOT NULL,***

***PRIMARY KEY (`Payment\_ID`,`Customer\_ID`)***

***) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4\_0900\_ai\_ci;***

***/\*!40101 SET character\_set\_client = @saved\_cs\_client \*/;***

***--***

***-- Dumping data for table `Payment\_Plan`***

***--***

***LOCK TABLES `Payment\_Plan` WRITE;***

***/\*!40000 ALTER TABLE `Payment\_Plan` DISABLE KEYS \*/;***

***INSERT INTO `Payment\_Plan` VALUES (1,555,'2019-10-04','Yearly',20000,10000,10000,'2025-10-04'),(2,556,'2019-10-05','Monthly',30000,22466,7534,'2025-10-05'),(3,557,'2019-10-06','Yearly',11000,11000,0,'2025-10-06'),(4,558,'2019-10-07','Monthly',12334,6000,6334,'2025-10-07'),(5,559,'2019-10-08','Yearly',44455,26228,18227,'2025-10-08'),(6,560,'2020-01-20','Monthly',5000,2950,2050,'2026-01-20'),(7,561,'2020-01-21','Yearly',20000,11800,8200,'2026-01-21'),(8,562,'2020-01-22','Yearly',22000,12980,9020,'2026-01-22'),(9,563,'2020-01-23','Yearly',24000,24000,0,'2026-01-23'),(10,564,'2020-01-24','Monthly',26000,15340,10660,'2026-01-24'),(11,565,'2021-01-30','Yearly',28000,16520,11480,'2027-01-30'),(12,566,'2021-02-01','Yearly',30000,17700,12300,'2027-01-31'),(13,567,'2021-02-03','Monthly',32000,18880,13120,'2027-02-01'),(14,568,'2021-02-05','Yearly',30000,17700,12300,'2027-02-02'),(15,569,'2020-05-20','Monthly',31000,18290,12710,'2026-05-20'),(16,570,'2020-05-21','Yearly',32000,18880,13120,'2026-05-21');***

***/\*!40000 ALTER TABLE `Payment\_Plan` ENABLE KEYS \*/;***

***Sale:***

***DROP TABLE IF EXISTS `Sale`;***

***/\*!40101 SET @saved\_cs\_client = @@character\_set\_client \*/;***

***/\*!50503 SET character\_set\_client = utf8mb4 \*/;***

***CREATE TABLE `Sale` (***

***`Car\_ID` int NOT NULL,***

***`Customer\_ID` varchar(45) NOT NULL,***

***`Sale\_Price` varchar(45) NOT NULL,***

***`Date\_of\_Purchase` varchar(45) NOT NULL,***

***PRIMARY KEY (`Car\_ID`,`Customer\_ID`)***

***) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4\_0900\_ai\_ci;***

***/\*!40101 SET character\_set\_client = @saved\_cs\_client \*/;***

***--***

***-- Dumping data for table `Sale`***

***--***

***LOCK TABLES `Sale` WRITE;***

***/\*!40000 ALTER TABLE `Sale` DISABLE KEYS \*/;***

***INSERT INTO `Sale` VALUES (100,'555','20000','2019-10-04'),(101,'556','30000','2019-10-05'),(102,'557','11000','2019-10-06'),(103,'558','12334','2019-10-07'),(104,'559','44455','2019-10-08'),(105,'560','5000','2020-01-20'),(106,'561','20000','2020-01-21'),(107,'562','22000','2020-01-22'),(108,'563','24000','2020-01-23'),(109,'564','26000','2020-01-24'),(110,'565','28000','2021-01-30'),(111,'566','30000','2021-02-01'),(112,'567','32000','2021-02-03'),(113,'568','30000','2021-02-05'),(114,'569','31000','2020-05-20'),(115,'570','32000','2020-05-21');***

***/\*!40000 ALTER TABLE `Sale` ENABLE KEYS \*/;***