NITTE MEENAKSHI INSTITUTE OF TECHNOLOGY

(AN AUTONOMOUS INSTITUTION, AFFILIATED TO VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELGAUM, APPROVED BY AICTE & GOVT.OF KARNATAKA

DBMS MINI PROJECT REPORT

on

CAR INSURANCE

Submitted in partial fulfilment of the requirement for the award of Degree of

Bachelor of Engineering

in

Computer Science and Engineering

Submitted by:

Utsav Das	1NT18CS178
Tarun Kumar Arcot	1NT18CS174
Samarth V Halawai	1NT18CS142

Department of Computer Science and Engineering

(Accredited by NBA Tier-1)

2019-2020

NITTE MEENAKSHI INSTITUTE OF TECHNOLOGY

(AN AUTONOMOUS INSTITUTION, AFFILIATED TO VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELGAUM , APPROVED BY AICTE & GOVT.OF KARNATAKA)

Department of Computer Science and Engineering
(Accredited by NBA Tier-1)

CERTIFICATE

This is to certify that the Course Project on **"CAR INSURANCE"** is an authentic work carried out by by **Samarth V Halawai(1NT18CS142), Utsav Das (1NT18CS178) ,Tarun Kumar Arcot(1NT18CS174)** bonafide students of **Nitte Meenakshi Institute of Technology**, Bangalore in partial fulfilment for the award of the degree of ***Bachelor of Engineering*** in COMPUTER SCIENCE AND ENGINEERING of Visvesvaraya Technological University, Belagavi during the academic year ***2019-2020.*** It is certified that all corrections and suggestions indicated during the internal assessment has been incorporated in the report.

Internal Guide

_____

Mr.Muthuraj
Assistant Professor, Dept. CSE,
NMIT Bangalore

Signature of the HOD

_____

Dr.Thippeswamy M. N.
Professor, Head, Dept. CSE,
NMIT Bangalore

DECLARATION

We hereby declare that

(i) The project work is our original work

(ii) This Project work has not been submitted for the award of any degree or examination at any other university/College/Institute.

(iii) This Project Work does not contain other persons' data, pictures, graphs or other information, unless specifically acknowledged as being sourced from other persons.

(iv) This Project Work does not contain other persons' writing, unless specifically acknowledged as being sourced from other researchers. Where other written sources have been quoted, then:

a) their words have been re-written but the general information attributed to them has been referenced;

b) where their exact words have been used, their writing has been placed inside quotation marks, and referenced.

(v) This Project Work does not contain text, graphics or tables copied and pasted from the Internet, unless specifically acknowledged, and the source being detailed in the thesis and in the References sections.

NAME	USN	Signature
SAMARTH V HALAWAI	1NT18CS142	
UTSAV DAS	1NT18CS178	
TARUN KUMAR ARCOT	1NT18CS174	

Date: 31/03/2020

ACKNOWLEDGEMENT

The satisfaction and euphoria that accompany the successful completion of any task would be incomplete without the mention of the people who made it possible, whose constant guidance and encouragement crowned our effort with success. I express my sincere gratitude to our Principal **Dr. H. C. Nagaraj**, Nitte Meenakshi Institute of Technology for providing facilities.

We wish to thank our HoD**, Dr.Thippeswamy M.N.** for the excellent environment created to further educational growth in our college. We also thank him for the invaluable guidance provided which has helped in the creation of a better project.

I hereby like to thank our **Mr.Muthuraj**, Department of Computer Science & Engineering on her periodic inspection, time to time evaluation of the project and help to bring the project to the present form.

Thanks to our Departmental Project coordinators. We also thank all our friends, teaching and non-teaching staff at NMIT, Bangalore, for all the direct and indirect help provided in the completion of the project.

Signature

SAMARTH V HALAWAI	1NT18CS142	
TARUN KUMAR ARCOT	1NT18CS174	
UTSAV DAS	1NT18CS178	

Date: 31/03/2020

ABSTRACT

Computerization is a key part of everyone's life nowadays-not only people but business. Companies, traveling sectors, health care sectors and many more. As the world is moving forward, the internet and technology have been the means that these sectors use to reach out to people and get profit from the brand or service they promote. The proposed vehicle insurance policy system is a web-based application that aims to develop a complete and fully functional independent system to manage records of vehicle insurance companies. It is developed with the intent of providing such insurance companies, an online platform for accurate processing, organized data handling, and efficient retrieval and storage of records. Car insurance management system is a management .monitering and controlling the number of insurance claims taken and how many insurance have expired.

This project of car insurance management is developed using PHP and MySQL as it's database. It focuses on the car's registration number, date of insurance issued and date of expiry, the amount of insurance per annum, etc. It also allocates it's policies for customers by the admin.

Extensive growth of vehicle ownership higher, not followed by growth of the road cause increasing rate in vehicle density. With the density of 188 vehicles per kilometer in 2012, the risk of accidents increases. In 2012, there were 117,949 accidents happened, causing loss of over 298.6 billion rupiahs. One way to transfer the risk of loss is through motor vehicle insurance. Insurance premium was calculated using the Financial Services Authority (Otoritas Jasa Keuangan) 2014 regulation. The database was designed using Entity Relationship Diagram. The research also create user interface design for the application. This research produce design of an application which can calculate motor vehicle insurance premium, manage policy submitted, handle claim submission, and journal the transactions.

TABLE OF CONTENTS

ACKNOWLEDGEMENT i

ABSTRACT ii

TABLE OF CONTENTS iii

CHAPTER 1: INTRODUCTION 1-2

1.1 DESCRIPTION OF THE PROJECT **1**

1.2 OBJECTIVES **2**

CHAPTER 2: ER-DIAGRAM 3-3

CHAPTER 3: QUERIES

3.1 CREATION OF TABLES **4-6**

3.2 INSERTION OF DATA IN TABLES **7-10**

3.3 SIMPLE QUERIES **11-14**

3.4 COMPLEX QUERIES **14-17**

CHAPTER 1

INTRODUCTION

1.1 DESCRIPTION OF THE PROJECT

Car insurance is a contract between the customer and the insurance company that protects you against financial loss in the event of an accident or theft. In exchange for customer paying a premium, the insurance company agrees to pay the customer losses as outlined in the customer's policy. Its primary use is to provide financial protection against physical damage or bodily injury resulting from traffic collisions and against liability that could also arise from incidents in a car. Car insurance may additionally offer financial protection against theft of the vehicle,
and against damage to the vehicle sustained from events other than traffic collisions, such as keying, weather or natural disasters, and damage sustained by colliding with stationary objects.

The specific terms of vehicle insurance vary with legal regulations in each region. Car insurance also covers costs associated with injuries or death that you or another driver causes while driving your car. Car Insurance System will store the details of the customer and his car. It saves time as it allows online procedure as users no longer wait in a queue to fill an car insurance form. They also have the advantage of paying online. The project has been planned to having the view of distributed architecture and centralized storage of the database. Using the constructs of the database MySQL and all the user interfaces have been designed using PHP, JS and CSS.

The Car insurance system shows the information and description of the Car and customer. The Car insurance Company has the ability to control the agents and policy of different customers and can list out who has paid and unpaid insurance. The Agent who are interested to join our insurance company can give their entry in the Agent Registration form. The admin's can verify these agents and allocate them to the customer as per availability.

1.2 OBJECTIVE

The main objective of the developed system is to allow admin users to manage insured persons with their name, date of birth, residence address etc. It also allows the admins to allocate the policy details to the insured people who have paid their insurance. It also helps the customer to view their own insurance status information and also their car information. The web pages provide easy links for easy navigation in the system. A customer with less knowledge of web browsing can control the website easily due to easy user interface. If the admin wants to view the information about a customer's policy details, he/she can login to policy status page by using the necessary details already given by insurance company and view the customer's details and also customer can give feedback to the insurance company. An online rules and regulation documentation will be provided to help the users and visitors in using the insurance.

• To computerize the Insurance System.

• To reduce Data Redundancy.

• To reduce the cumbersome job of maintaining several documents.

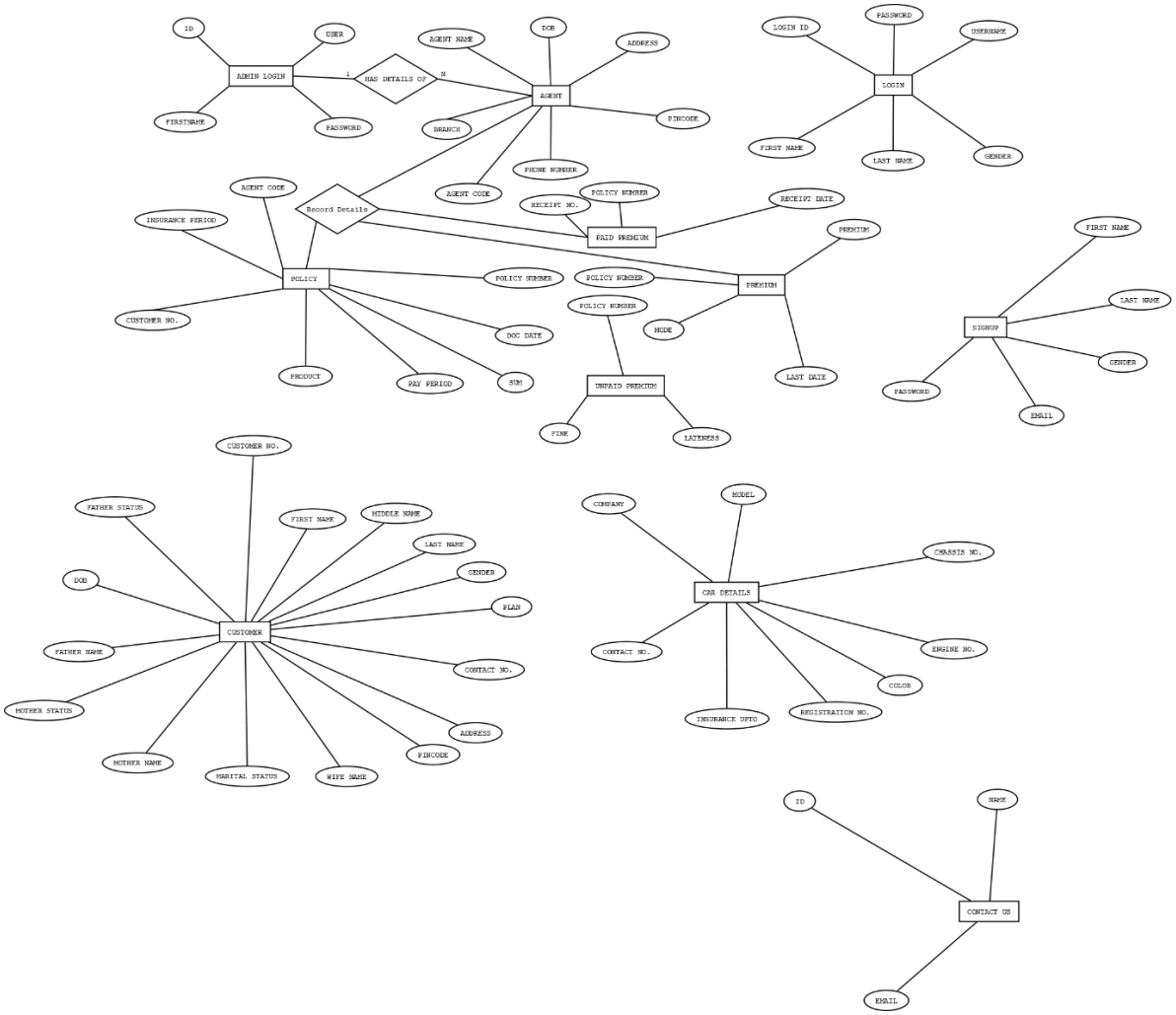
• To eliminate the delays in report generation for insurance policies.

• To facilitate faster searching of information by insurance companies and concerned parties.

• Thus, reducing time, energy and cost.

• To give assurance to the policy holders about maintain Data Privacy and Security.

CHAPTER 2: ER DIAGRAM



CHAPTER 3: QUERIES

3.1 CREATION OF TABLES

```
CREATE TABLE `adminlogin` (
  `id` int(11) NOT NULL,
  `user` varchar(255) NOT NULL,
  `pass` varchar(255) NOT NULL,
  `Firstname` varchar(50) NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;

CREATE TABLE `agent` (
  `Agent_code` varchar(10) NOT NULL,
  `Agent_name` varchar(150) NOT NULL,
  `DOB` date NOT NULL,
  `Address` varchar(80) NOT NULL,
  `Pincode` int(6) NOT NULL,
  `Branch` varchar(50) NOT NULL,
  `Contact_Num` bigint(10) NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=latin1;

CREATE TABLE Game_character
     (name varchar(15) ,
      sex char(1),
      outfit varchar(20) ,
      hat_type varchar(20) ,
      special_ability varchar(20) primary key);

CREATE TABLE `cardetails` (
  `id` int(11) NOT NULL,
  `Contact_Number` bigint(10) NOT NULL,
  `company` varchar(50) NOT NULL,
  `model` varchar(50) NOT NULL,
  `chassisno` varchar(10) NOT NULL,
  `engineno` varchar(50) NOT NULL,
  `color` varchar(50) NOT NULL,
  `registrationno` varchar(50) NOT NULL,
  `insuranceupto` date NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;

CREATE TABLE `contact` (
  `id` int(10) UNSIGNED NOT NULL,
  `fullname` varchar(100) DEFAULT NULL,
  `email` text DEFAULT NULL
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;

CREATE TABLE `customer` (
  `Customer_Num` bigint(10) NOT NULL,
  `First_Name` varchar(50) NOT NULL,
  `Middle_Name` varchar(50) NOT NULL,
  `Last_Name` varchar(50) NOT NULL,
  `Gender` char(1) NOT NULL,
  `DOB` date NOT NULL,
  `Address` varchar(70) NOT NULL,
  `Pincode` int(6) NOT NULL,
  `Contact_Number` bigint(10) NOT NULL,
```

```
  `Mother_Name` varchar(150) NOT NULL,
  `Mother_Status` varchar(10) NOT NULL,
  `Father_Name` varchar(150) NOT NULL,
  `Father_Status` varchar(10) NOT NULL,
  `Marital_status` char(1) NOT NULL,
  `Spouse` varchar(150) DEFAULT NULL,
  `Plan` int(11) NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=latin1;

CREATE TABLE `login` (
  `id` int(11) NOT NULL,
  `user` varchar(255) NOT NULL,
  `pass` varchar(255) NOT NULL,
  `Firstname` varchar(50) NOT NULL,
  `Lastname` varchar(50) NOT NULL,
  `Gender` char(1) NOT NULL,
  `Contact_Number` bigint(10) NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;

CREATE TABLE `paid_premium` (
  `Receipt_Num` int(23) NOT NULL,
  `Receipt_Date` date NOT NULL,
  `Policy_Num` int(15) NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=latin1;

CREATE TABLE `policy_data` (
  `Policy_Num` int(15) NOT NULL,
  `Customer_Num` bigint(10) NOT NULL,
  `Agent_code` varchar(10) NOT NULL,
  `DOC` date NOT NULL,
  `Product` varchar(50) NOT NULL,
  `Sum_Assured` int(10) NOT NULL,
  `Pay_Period` int(2) NOT NULL,
  `Ins_Period` int(2) NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=latin1;

CREATE TABLE `premium` (
  `Policy_Num` int(15) NOT NULL,
  `Premium` int(10) NOT NULL,
  `Mode` varchar(3) NOT NULL,
  `Last_date` date NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=latin1;

CREATE TABLE `unpaid_premium` (
  `Policy_Num` int(15) NOT NULL,
  `Fine` int(10) NOT NULL,
  `Lateness` int(11) NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=latin1;

ALTER TABLE `agent`
  ADD PRIMARY KEY (`Agent_code`);

ALTER TABLE `cardetails`
  ADD PRIMARY KEY (`id`),
  ADD KEY `Contact_number_fk` (`Contact_Number`);

ALTER TABLE `contact`
  ADD PRIMARY KEY (`id`);
```

```
ALTER TABLE `login`
  ADD PRIMARY KEY (`id`),
  ADD KEY `Contact_Number` (`Contact_Number`);

ALTER TABLE `paid_premium`
  ADD PRIMARY KEY (`Receipt_Num`),
  ADD KEY `paid_premium_ibfk_1` (`Policy_Num`);

ALTER TABLE `policy_data`
  ADD PRIMARY KEY (`Policy_Num`),
  ADD KEY `Agent_code` (`Agent_code`),
  ADD KEY `Customer_Num` (`Customer_Num`);

ALTER TABLE `premium`
  ADD PRIMARY KEY (`Policy_Num`);

ALTER TABLE `unpaid_premium`
  ADD PRIMARY KEY (`Policy_Num`);

ALTER TABLE `cardetails`
  MODIFY `id` int(11) NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=21;

ALTER TABLE `contact`
  MODIFY `id` int(10) UNSIGNED NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=11;

ALTER TABLE `customer`
  MODIFY `Customer_Num` bigint(10) NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=10019;

ALTER TABLE `login`
  MODIFY `id` int(11) NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=22;

ALTER TABLE `cardetails`
  ADD CONSTRAINT `Contact_number_fk` FOREIGN KEY (`Contact_Number`) REFERENCES `customer`
(`Contact_Number`);

ALTER TABLE `login`
  ADD CONSTRAINT `Contact_num_fk` FOREIGN KEY (`Contact_Number`) REFERENCES `customer`
(`Contact_Number`);

ALTER TABLE `paid_premium`
  ADD CONSTRAINT `paid_premium_ibfk_1` FOREIGN KEY (`Policy_Num`) REFERENCES `premium`
(`Policy_Num`) ON DELETE CASCADE ON UPDATE CASCADE;

ALTER TABLE `policy_data`
  ADD CONSTRAINT `Agent_code` FOREIGN KEY (`Agent_code`) REFERENCES `agent` (`Agent_code`) ON
DELETE CASCADE ON UPDATE CASCADE,
  ADD CONSTRAINT `Customer_Num` FOREIGN KEY (`Customer_Num`) REFERENCES `customer`
(`Customer_Num`) ON DELETE CASCADE ON UPDATE CASCADE;

ALTER TABLE `premium`
  ADD CONSTRAINT `premium_ibfk_1` FOREIGN KEY (`Policy_Num`) REFERENCES `policy_data`
(`Policy_Num`) ON DELETE CASCADE ON UPDATE CASCADE;

ALTER TABLE `unpaid_premium`
  ADD CONSTRAINT `Policy` FOREIGN KEY (`Policy_Num`) REFERENCES `premium` (`Policy_Num`) ON
DELETE CASCADE ON UPDATE CASCADE;
COMMIT;
```

3.2 INSERTION OF DATA INTO THE TABLES

INSERT INTO `adminlogin` (`id`, `user`, `pass`, `Firstname`) VALUES
(1, 'admin', 'admin', 'ud'),
(2, 'lenovo', 'pass', 'lenovo'),
(3, 'samarth', '123', 'samarth'),
(4, 'ram', '123', 'ram'),
(5, 'sam', '456', 'sam'),
(6, 'likith321', '123', 'likith'),
(7, 'tonystark', '789', 'tony'),
(8, 'shiva998', '998', 'shiva'),
(9, 'pooja', '598', 'pooja'),
(10, 'dinesh', '123', 'dinesh');

INSERT INTO `agent` (`Agent_code`, `Agent_name`, `DOB`, `Address`, `Pincode`, `Branch`, `Contact_Num`) VALUES
('005', 'Ram', '2000-02-16', 'Bangalore', 560054, 'Malleswaram', 43543544343),
('009', 'Dinesh', '2001-12-02', 'Yelahanka', 434434, 'Mathikere', 9986000050),
('010', 'Ranjith', '2001-06-02', 'Mathikere', 234567, 'Mathikere', 9986000050),
('011', 'Adithya', '2001-04-02', 'RT Nagar', 987654, 'Yeswanthpur', 1234567890),
('012', 'Navaneeth', '2001-03-02', 'Indiranagar', 456787, 'Rajajinagar', 9986000000),
('013', 'Soorya', '2001-01-02', 'Rajajinagar', 554455, 'Mathikere', 9934533432),
('020', 'Teju', '2001-01-02', 'BEL', 333333, 'Shahakar', 6645633636),
('021', 'Bob', '2001-11-02', 'Brindavan Nagar', 343434, 'BEL', 8858488538),
('022', 'Kuldeep', '2001-04-02', 'Shahakar Nagar', 676767, 'Mathikere', 3368366363);

INSERT INTO `cardetails` (`id`, `Contact_Number`, `company`, `model`, `chassisno`, `engineno`, `color`, `registrationno`, `insuranceupto`) VALUES
(1, 9986998612, 'Honda', 'Jazz', '776677', 'Civic', 'Blue', 'Ka04me3344', '0000-00-00'),
(2, 7016636683, 'Honda', 'BR-V', '78798', 'Jazz', 'Orange', 'KA04ZX7899', '0000-00-00'),
(3, 1234567890, 'Hyundai', 'G-i10', '78578', 'i20', 'Red', 'KA05ZX7899', '0000-00-00'),
(4, 1234567890, 'Hyundai', 'i20', '78578', 'i20', 'Red', 'KA05ZX7899', '0000-00-00'),
(5, 1234567891, 'Honda', 'CR-V', '78578', 'city', 'Red', 'Ka04me3344', '0000-00-00'),
(6, 1234567891, 'Honda', 'city', '6556', '78578', 'Red', 'Ka04me3344', '0000-00-00'),
(7, 1234567891, 'Honda', 'city', '6556', '78578', 'Red', 'Ka04me3344', '0000-00-00'),
(8, 1234567891, 'Honda', 'city', '6556', '78578', 'Red', 'Ka04me3344', '0000-00-00'),
(9, 1234567891, 'Honda', 'city', '6556', '78578', 'Red', 'Ka04me3344', '0000-00-00'),
(10, 1234567891, 'Honda', 'city', '6556', '78578', 'Red', 'Ka04me3344', '2020-03-30'),
(11, 1234567891, 'Honda', 'city', '6556', '78578', 'Red', 'Ka04me3344', '2020-03-30'),
(12, 1234567891, 'Honda', 'city', '6556', '78578', 'Red', 'Ka04me3344', '2020-03-30'),
(13, 1234567891, 'Honda', 'city', '6556', '78578', 'Red', 'Ka04me3344', '2020-03-30'),
(14, 1234567891, 'Honda', 'city', '6556', '78578', 'Red', 'Ka04me3344', '0000-00-00'),
(15, 1234567891, 'Honda', 'city', '6556', '78578', 'Red', 'Ka04me3344', '2021-03-30'),
(16, 1234567891, 'Honda', 'city', '6556', '78578', 'Red', 'Ka04me3344', '2021-03-30'),
(17, 1234567891, 'Honda', 'city', '6556', '78578', 'Red', 'Ka04me3344', '2021-03-30'),
(18, 1234567891, 'Honda', 'city', '6556', '78578', 'Red', 'Ka04me3344', '2021-03-30'),
(19, 1234567891, 'Honda', 'city', '6556', '78578', 'Red', 'Ka04me3344', '2021-03-30'),
(20, 1122334455, 'BMW', 'M3', '885543', '2233543', 'Blue', 'KA04ME2212', '2021-04-02');

INSERT INTO `contact` (`id`, `fullname`, `email`) VALUES
(1, 'Utsav Das', 'ud@gmail.com'),
(2, 'Tarun', 'tarun@gmail.com'),
(3, 'Varun', 'varun@gmail.com'),
(4, 'Daarun', 'daarun@gmail.com'),
(5, 'Gowtham', 'gowtham@gmail.com'),
(6, 'Arun', 'arun@gmail.com'),

(7, 'Arjun', 'arjun@gmail.com'),
(8, 'Ram', 'ram@gmail.com'),
(9, 'Sam', 'sam@gmail.com'),
(10, 'Dinesh', 'dinesh@gmail.com');

INSERT INTO `customer` (`Customer_Num`, `First_Name`, `Middle_Name`, `Last_Name`, `Gender`, `DOB`, `Address`, `Pincode`, `Contact_Number`, `Mother_Name`, `Mother_Status`, `Father_Name`, `Father_Status`, `Marital_status`, `Spouse`, `Plan`) VALUES
(10002, 'Druv', 's', 'd', 'M', '2000-10-02', 'Mathikere', 888888, 7016636683, 'Ganga', 'A', 'Sam', 'A', 'S', '', 15000),
(10003, 'Ram', 'D', 'S', 'M', '2020-03-17', 'Bangalore', 560054, 9986998612, 'Pooja', 'Alive', 'Sam', 'D', 'S', '', 15000),
(10004, 'Sam', 'S', 'D', 'M', '2020-03-17', 'Bangalore', 1234567, 1234567890, 'Pooja', 'Alive', 'dddd', 'D', 'S', '', 15000),
(10005, 'Sam', 'Sutu ', 'Dtt', 'M', '2020-03-17', 'Bangalore', 1234567, 1234567891, 'Pooja', 'Alive', 'dddd', 'D', 'S', '', 15000),
(10006, 'Utsav', '', 'Das', 'M', '2001-03-10', 'Malleswaram', 560054, 9998733421, 'sushila', 'Dead', 'Ravi', 'D', 'S', NULL, 15000),
(10007, 'Pradeep', 'k', 'p', 'M', '2001-04-10', 'Mathikere', 560054, 9976555554, 'pooja', 'Alive', 'Ravi', 'D', 'S', NULL, 15000),
(10008, 'Deepak', 'm', 'p', 'M', '2001-05-10', 'Hebbal', 454545, 8874033202, 'sushila', 'Dead', 'Steve', 'D', 'S', NULL, 45000),
(10009, 'Kumar', 'p', 'm', 'M', '2001-06-10', 'Yeswanthpur', 757575, 9946533532, 'parvathi', 'Alive', 'Bill', 'D', 'S', NULL, 7000),
(10010, 'Karthika', 'a', 'm', 'M', '2001-07-10', 'Malleswaram', 123123, 7756200398, 'lata', 'Dead', 'Mark', 'D', 'S', NULL, 45000),
(10011, 'Ganesh', 'c', 'd', 'M', '2001-08-10', 'Yelahanka', 321321, 8845233432, 'mani', 'Alive', 'karthik', 'D', 'S', NULL, 7000),
(10012, 'Shiv', 'd', 'f', 'M', '2001-09-10', 'Malleswaram', 560054, 6645388385, 'koel', 'Dead', 'Bob', 'D', 'S', NULL, 7000),
(10016, 'Bukai', 'D', 'D', 'M', '2020-03-13', 'Bangalore', 981123, 1122334455, 'Mom', 'Alive', 'Watson', 'Alive', 'S', '', 15000),
(10018, 'Raghu', 'S', 'S', 'M', '2020-01-08', 'Bangalore', 745509, 8857322409, 'Gethaa', 'Alive', 'Edward', 'Alive', 'S', '', 15000);

INSERT INTO `login` (`id`, `user`, `pass`, `Firstname`, `Lastname`, `Gender`, `Contact_Number`) VALUES
(1, 'admin', 'admin', 'Dhruv', 'd', 'M', 7016636683),
(2, 'lenovo', 'pass', 'dell', 'S', 'M', 9946533532),
(3, 'ram321', '123', 'Ram', 'S', 'M', 9986998612),
(4, 'sam221', '667', 'sam', 's', 'M', 1234567891),
(5, 'prabhu554', '556', 'prabhu', 's', 'M', 9976555554),
(6, 'deepesh', '445', 'deepesh', 's', 'M', 7756200398),
(7, 'bimal', '334', 'bimal', 's', 'M', 8845233432),
(8, 'ashok', '223', 'ashok', 's', 'M', 6645388385),
(9, 'rajiv', '446', 'rajiv', 's', 'M', 9998733421),
(10, 'dinesh', '454', 'dinesh', 's', 'M', 8874033202),
(11, 'Shreyas223', 'pass', 'Shreya', 'D', 'M', 1234567890),
(19, 'Bukai', 'pass321', 'Bukai', 'D', 'M', 1122334455),
(21, 'Raghu330', 'intel', 'Raghu', 'S', 'M', 8857322409);

INSERT INTO `paid_premium` (`Receipt_Num`, `Receipt_Date`, `Policy_Num`) VALUES
(86567510, '2020-03-18', 284049583),
(86567511, '2020-03-19', 234567968),
(86567512, '2020-03-26', 234567958),
(86567513, '2020-03-26', 234567908),
(86567514, '2020-03-26', 234567938),
(86567515, '2020-03-26', 234567948),
(86567518, '2020-03-19', 234567918),

(325256815, '2018-10-31', 123564789),
(325284137, '2018-11-01', 284049583),
(325289941, '2020-03-19', 284049583),
(1585661244, '2020-03-31', 234567918),
(1585661471, '2020-03-31', 234567938),
(1585661693, '2020-03-31', 234567892),
(1585661733, '2020-03-31', 234567908),
(1585661943, '2020-03-31', 234567898),
(1585755067, '2020-04-01', 234567892),
(1585755074, '2020-04-01', 234567892),
(1585755140, '2020-04-01', 234567892),
(1585755228, '2020-04-01', 234567892),
(1585755254, '2020-04-01', 234567892),
(1585755302, '2020-04-01', 234567892),
(1585760025, '2020-04-01', 234567892),
(1585760053, '2020-04-01', 234567892),
(1585760206, '2020-04-01', 234567892),
(1585760287, '2020-04-01', 234567892),
(1585760304, '2020-04-01', 234567892),
(1585760345, '2020-04-01', 234567892);

INSERT INTO `policy_data` (`Policy_Num`, `Customer_Num`, `Agent_code`, `DOC`, `Product`, `Sum_Assured`, `Pay_Period`, `Ins_Period`) VALUES
(112233441, 10016, '021', '2020-02-06', 'Hatchback', 15000, 45, 1),
(112233442, 10016, '021', '2020-02-13', 'Hatchback', 15000, 45, 1),
(123564789, 10002, '005', '2018-10-02', 'Jeevan Labh', 35000, 5, 10),
(234567892, 10009, '011', '2020-06-18', 'City', 15000, 60, 1),
(234567898, 10006, '021', '2020-03-18', 'Hatchback', 15000, 21, 1),
(234567908, 10007, '009', '2020-04-18', 'Hatchback', 15000, 60, 1),
(234567918, 10008, '010', '2020-05-18', 'SUV', 15000, 60, 1),
(234567938, 10010, '012', '2020-07-18', 'SUV', 15000, 60, 1),
(234567948, 10011, '013', '2020-08-18', 'Hatchback', 15000, 60, 1),
(234567958, 10012, '020', '2020-09-18', 'Hatchback', 15000, 60, 1),
(234567968, 10004, '022', '2020-10-18', 'Hatchback', 15000, 60, 1),
(284049583, 10002, '005', '2007-06-20', 'Jeevan Lakshya', 450000, 35, 80),
(998877665, 10016, '012', '2020-03-19', 'Hatchback', 15000, 45, 1);

INSERT INTO `premium` (`Policy_Num`, `Premium`, `Mode`, `Last_date`) VALUES
(112233441, 1250, 'MLY', '2020-03-06'),
(112233442, 15000, 'YLY', '2021-02-13'),
(123564789, 1250, 'DB', '2020-02-01'),
(234567892, 1250, 'DB', '0000-00-00'),
(234567898, 1250, 'DB', '0000-00-00'),
(234567908, 1250, 'CRT', '0000-00-00'),
(234567918, 1250, 'DB', '0000-00-00'),
(234567938, 15000, 'DB', '0000-00-00'),
(234567948, 15000, 'DB', '2020-02-11'),
(234567958, 15000, 'CRT', '2020-02-11'),
(234567968, 15000, 'CRT', '2020-02-11'),
(284049583, 15000, 'CRT', '2020-02-01');

INSERT INTO `unpaid_premium` (`Policy_Num`, `Fine`, `Lateness`) VALUES
(112233441, 0, 0),

(112233442, 0, 0),
(123564789, 0, 0),
(234567892, 0, 0),
(234567898, 0, 0),
(234567908, 0, 0),
(234567918, 0, 0),
(234567938, 0, 0),
(234567948, 0, 0),
(234567958, 0, 0),
(234567968, 0, 0),
(284049583, 0, 0);

SCREEN SHOT OF DATABASE

Database → Car Insurance

```
mysql> show tables
    -> ;
+---------------------------+
| Tables_in_car_insurance |
+---------------------------+
| adminlogin                |
| agent                     |
| cardetails                |
| contact                   |
| customer                  |
| login                     |
| paid_premium              |
| policy_data               |
| premium                   |
| unpaid_premium            |
+---------------------------+
10 rows in set (0.09 sec)
```

3.3 10 simple queries for the database .

1. Find the contact number of customer who have sports plan = 45000.

```
mysql> select Contact_Number from customer where Plan=45000;
+----------------+
| Contact_Number |
+----------------+
|     8874033202 |
|     7756200398 |
+----------------+
2 rows in set (0.00 sec)
```

2. Find the Maximum Plan of each customer.

```
mysql> select First_Name, max(Plan) from customer group by First_Name;
+------------+-----------+
| First_Name | max(Plan) |
+------------+-----------+
| Druv       |     15000 |
| Ram        |     15000 |
| Sam        |     15000 |
| Utsav      |     15000 |
| Pradeep    |     15000 |
| Deepak     |     45000 |
| Kumar      |      7000 |
| Karthika   |     45000 |
| Ganesh     |      7000 |
| Shiv       |      7000 |
| Bukai      |     15000 |
| Raghu      |     15000 |
| Earl       |      7000 |
+------------+-----------+
13 rows in set (0.00 sec)
```

3. Find the total Sum of plan having first name as Sam .

```
mysql> select sum(Plan) from customer where First_Name='Sam';
+------------+
| sum(Plan) |
+------------+
|      30000 |
+------------+
1 row in set (0.00 sec)
```

4. Select customers who paying their insurance yearly .

```
mysql> select Customer_Num from premium join policy_data on policy_data.Policy_Num = premium.Policy_Num where Mode='YLY';
+--------------+
| Customer_Num |
+--------------+
|        10016 |
|        10011 |
|        10012 |
|        10004 |
|        10002 |
+--------------+
5 rows in set (0.00 sec)
```

5. Find the names of agents who have branch is in Mathikere.

```
mysql> select Agent_Name from agent where Branch='Mathikere';
+-------------+
| Agent_Name |
+-------------+
| Dinesh     |
| Ranjith    |
| Soorya     |
| Kuldeep    |
+-------------+
4 rows in set (0.00 sec)
```

6.Showing the agent name allocated to the particular customer according to policy data

```
mysql> select Agent_name from policy_data join agent on policy_data.Agent_code = agent.Agent_code  ;
+------------+
| Agent_name |
+------------+
| Ram        |
| Ram        |
| Dinesh     |
| Ranjith    |
| Adithya    |
| Navaneeth  |
| Navaneeth  |
| Soorya     |
| Teju       |
| Bob        |
| Bob        |
| Bob        |
| Kuldeep    |
+------------+
13 rows in set (0.02 sec)
```

7.Select the first name where last name =’d’

```
mysql> select First_Name from login join customer on login.Contact_Number = customer.Contact_Number where Lastname = 'D';
+------------+
| First_Name |
+------------+
| Druv       |
| Sam        |
| Bukai      |
+------------+
3 rows in set (0.00 sec)
```

8.Customer having SUV Cars

```
mysql> select * from policy_data where Product='SUV';
+------------+-------------+------------+------------+---------+-------------+------------+------------+
| Policy_Num | Customer_Num | Agent_code | DOC        | Product | Sum_Assured | Pay_Period | Ins_Period |
+------------+-------------+------------+------------+---------+-------------+------------+------------+
|  123564789 |        10002 | 005        | 2018-10-02 | SUV     |       15000 |          5 |          1 |
|  234567918 |        10008 | 010        | 2020-05-18 | SUV     |       15000 |         60 |          1 |
|  234567938 |        10010 | 012        | 2020-07-18 | SUV     |       15000 |         60 |          1 |
+------------+-------------+------------+------------+---------+-------------+------------+------------+
3 rows in set (0.00 sec)
```

8. Find the customers having a car company as Hyundai.

```
mysql> select * from cardetails where company='Hyundai';
+----+----------------+---------+-------+-----------+----------+-------+----------------+----------------+
| id | Contact_Number | company | model | chassisno | engineno | color | registrationno | insuranceupto |
+----+----------------+---------+-------+-----------+----------+-------+----------------+----------------+
|  3 |     1234567890 | Hyundai | G-i10 | 78578     | i20      | Red   | KA05ZX7899     | 2021-06-30    |
|  4 |     1234567890 | Hyundai | i20   | 78578     | i20      | Red   | KA05ZX7679     | 2021-03-30    |
+----+----------------+---------+-------+-----------+----------+-------+----------------+----------------+
2 rows in set (0.00 sec)
```

9. Find customer Numbers where pay period is 60 days.

```
mysql> select Customer_Num from policy_data where Pay_period=60;
+--------------+
| Customer_Num |
+--------------+
|        10009 |
|        10007 |
|        10008 |
|        10010 |
|        10011 |
|        10012 |
|        10004 |
+--------------+
7 rows in set (0.00 sec)
```

3.4 10 complex query for the databases .

1.To print details of customer who have Hyundai cars

```
mysql> SELECT DISTINCT c.First_Name
    -> FROM customer c
    -> INNER JOIN cardetails d
    -> ON c.Contact_Number = d.Contact_Number
    -> AND d.company in ('Hyundai');
+------------+
| First_Name |
+------------+
| Sam        |
+------------+
1 row in set (0.00 sec)
```

2.To find customer who have plan between 5000 and 10000

```
mysql> SELECT CONCAT(First_Name, ' ', Last_name) As Name, Plan
    -> FROM customer
    -> WHERE Customer_Num IN
    -> (SELECT Customer_Num FROM customer
    -> WHERE Plan BETWEEN 5000 AND 10000);
+----------+------+
| Name     | Plan |
+----------+------+
| Kumar m  | 7000 |
| Ganesh d | 7000 |
| Shiv f   | 7000 |
| Earl d   | 7000 |
+----------+------+
4 rows in set (0.00 sec)
```

3.To find duplicate records

```
mysql> SELECT company, COUNT(*)
    -> FROM cardetails
    -> GROUP BY COMPANY
    -> HAVING COUNT(*) > 1;
+---------+----------+
| company | COUNT(*) |
+---------+----------+
| Honda   |       17 |
| Hyundai |        2 |
+---------+----------+
2 rows in set (0.00 sec)
```

4.Finding the highest plan for each customer

```
mysql> SELECT t.First_Name,t.Customer_Num,t.Plan from(SELECT max(Plan) as Plan,Customer_Num from customer group by Customer_Num) as TempNew
    -> Inner Join customer t on TempNew.Customer_Num=t.Customer_Num ;
+------------+--------------+-------+
| First_Name | Customer_Num | Plan  |
+------------+--------------+-------+
| Druv       |        10002 | 15000 |
| Ram        |        10003 | 15000 |
| Sam        |        10004 | 15000 |
| Sam        |        10005 | 15000 |
| Utsav      |        10006 | 15000 |
| Pradeep    |        10007 | 15000 |
| Deepak     |        10008 | 45000 |
| Kumar      |        10009 |  7000 |
| Karthika   |        10010 | 45000 |
| Ganesh     |        10011 |  7000 |
| Shiv       |        10012 |  7000 |
| Bukai      |        10016 | 15000 |
| Raghu      |        10018 | 15000 |
| Earl       |        10019 |  7000 |
+------------+--------------+-------+
14 rows in set (0.00 sec)
```

5.To show even number of rows in agent table.

```
mysql> SELECT a.Agent_Code, a.Agent_Name, a.Address
    -> FROM (
    ->     SELECT *, Row_Number() OVER(ORDER BY Agent_code) AS RowNumber
    ->     FROM agent
    -> ) a
    -> WHERE a.RowNumber % 2 = 1
    ->
    ->
    -> ;
+------------+------------+----------------+
| Agent_Code | Agent_Name | Address        |
+------------+------------+----------------+
| 005        | Ram        | Bangalore      |
| 010        | Ranjith    | Mathikere      |
| 012        | Navaneeth  | Indiranagar    |
| 020        | Teju       | BEL            |
| 022        | Kuldeep    | Shahakar Nagar |
+------------+------------+----------------+
5 rows in set (0.00 sec)
```

6.To find the third highest Plan

```
mysql>
mysql> SELECT Plan
    -> FROM customer Emp1
    -> WHERE 2 = (
    ->                 SELECT COUNT( DISTINCT ( Emp2.Plan ) )
    ->                 FROM customer Emp2
    ->                 WHERE Emp2.Plan > Emp1.Plan
    ->             );
+------+
| Plan |
+------+
| 7000 |
| 7000 |
| 7000 |
| 7000 |
+------+
4 rows in set (0.00 sec)
```

7.Selecting Customer Contact Number where they have more than one car.

```
mysql> select Contact_Number,COUNT(*) from cardetails group by Contact_Number having COUNT(*)>1;
+----------------+----------+
| Contact_Number | COUNT(*) |
+----------------+----------+
|     1234567890 |        2 |
|     1234567891 |       15 |
+----------------+----------+
2 rows in set (0.02 sec)
```

8. Select customers who paying their insurance yearly .

```
mysql> select Customer_Num from premium join policy_data on policy_data.Policy_Num = premium.Policy_Num where Mode='YLY';
+--------------+
| Customer_Num |
+--------------+
|        10016 |
|        10011 |
|        10012 |
|        10004 |
|        10002 |
+--------------+
5 rows in set (0.00 sec)
```

9.Showing the agent name allocated to the particular customer according to policy data

```
mysql> select Agent_name from policy_data join agent on policy_data.Agent_code = agent.Agent_code  ;
+------------+
| Agent_name |
+------------+
| Ram        |
| Ram        |
| Dinesh     |
| Ranjith    |
| Adithya    |
| Navaneeth  |
| Navaneeth  |
| Soorya     |
| Teju       |
| Bob        |
| Bob        |
| Bob        |
| Kuldeep    |
+------------+
13 rows in set (0.02 sec)
```

10.To find who has the Maximum insurance time

```
mysql> select customer.Customer_Num,
    ->        customer.Contact_Number,
    ->        count(*) as how_many_cars,
    ->        max(cardetails.insuranceupto) as insurance_upto
    -> from customer, cardetails
    -> where customer.Contact_Number = cardetails.Contact_Number
    -> group by customer.Customer_Num, customer.Contact_Number
    -> order by insurance_upto desc, how_many_cars desc;
+--------------+----------------+---------------+----------------+
| Customer_Num | Contact_Number | how_many_cars | insurance_upto |
+--------------+----------------+---------------+----------------+
|        10003 |     9986998612 |             1 | 2022-03-30     |
|        10005 |     1234567891 |            15 | 2021-06-30     |
|        10004 |     1234567890 |             2 | 2021-06-30     |
|        10002 |     7016636683 |             1 | 2021-05-30     |
|        10016 |     1122334455 |             1 | 2021-04-02     |
+--------------+----------------+---------------+----------------+
5 rows in set (0.00 sec)
```