A database for a Vehicle Insurance Company

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Team 3

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Physical Data Model(PDM)

PDM for vehicle insurance service

- Creating table and testing sql queries using MySQL Workbench

```
CREATE DATABASE IF NOT EXISTS mydb;

USE mydb;

CREATE TABLE IF NOT EXISTS t3_INCIDENT

(

t3_Incident_Id VARCHAR(20) NOT NULL ,

t3_Incident_Type VARCHAR(50) NULL ,

t3_Incident_Date DATE NOT NULL ,

t3_Description VARCHAR(1000) NULL ,

CONSTRAINT XPKINCIDENT_17 PRIMARY KEY (t3_Incident_Id)

);

CREATE UNIQUE INDEX XPKINCIDENT_17 ON t3_INCIDENT (t3_Incident_Id ASC);


CREATE TABLE IF NOT EXISTS t3_CUSTOMER

(

t3_Cust_Id VARCHAR(15) NOT NULL ,

t3_Cust_FName VARCHAR(15) NOT NULL ,

t3_Cust_LName VARCHAR(15) NOT NULL ,

t3_Cust_DOB DATE NOT NULL ,

t3_Cust_Gender CHAR(2) NOT NULL ,

t3_Cust_Address VARCHAR(35) NOT NULL ,

t3_Cust_MOB_Number BIGINT NOT NULL ,

t3_Cust_Email VARCHAR(25) NULL ,

t3_Cust_Passport_Number  VARCHAR(20) NULL ,
```

```
t3_Cust_Marital_Status CHAR(12) NULL ,
t3_Cust_PPS_Number INTEGER NULL ,
CONSTRAINT XPKCUSTOMER PRIMARY KEY (t3_Cust_Id)
);

CREATE UNIQUE INDEX XPKCUSTOMER_1 ON t3_CUSTOMER (t3_Cust_Id ASC);


CREATE TABLE IF NOT EXISTS t3_INCIDENT_REPORT
(
Incident_Report_Id VARCHAR(20) NOT NULL ,
t3_Incident_Type CHAR(50) NULL ,
t3_Incident_Inspector VARCHAR(20) NULL ,
t3_Incident_Cost INTEGER NULL ,
t3_Incident_Report_Description VARCHAR(1000) NULL ,
t3_Incident_Id VARCHAR(20) NOT NULL ,
t3_Cust_Id VARCHAR(20) NOT NULL ,
CONSTRAINT XPKINCIDENT_REPORT_18 PRIMARY KEY
(Incident_Report_Id,t3_Incident_Id,t3_Cust_Id),
CONSTRAINT R_83 FOREIGN KEY (t3_Incident_Id) REFERENCES t3_INCIDENT (t3_Incident_Id) ON
DELETE CASCADE ON UPDATE CASCADE,
CONSTRAINT R_86 FOREIGN KEY (t3_Cust_Id) REFERENCES t3_CUSTOMER (t3_Cust_Id) ON
DELETE CASCADE ON UPDATE CASCADE
);
CREATE UNIQUE INDEX XPKINCIDENT_REPORT_18 ON t3_INCIDENT_REPORT (Incident_Report_Id ASC,t3_Incident_Id
ASC,t3_Cust_Id ASC);
```

```
CREATE TABLE IF NOT EXISTS t3_INSURANCE_COMPANY
(
t3_Company_Name VARCHAR(70) NOT NULL ,
t3_Company_Address VARCHAR(400) NULL ,
t3_Company_Contact_Number bigint NULL ,
t3_Company_Fax bigint NULL ,
t3_Company_Email VARCHAR(50) NULL ,
t3_Company_Website VARCHAR(50) NULL ,
t3_Company_Location VARCHAR(50) NULL,
t3_Company_Department_Name VARCHAR(50) NULL ,
t3_Company_Office_Name VARCHAR(50) NULL ,
CONSTRAINT XPKINSURANCE_COMPANY_15 PRIMARY KEY
(t3_Company_Name)
);
CREATE UNIQUE INDEX XPKINSURANCE_COMPANY_15 ON t3_INSURANCE_COMPANY
(t3_Company_Name ASC);
-- Table 5
CREATE TABLE IF NOT EXISTS t3_DEPARTMENT
(
t3_Department_Name VARCHAR(50) NOT NULL ,
t3_Department_ID VARCHAR(50) NOT NULL ,
t3_Department_Staff VARCHAR(50) NULL ,
t3_Company_Name VARCHAR(100) NOT NULL ,
CONSTRAINT XPKDEPARTMENT PRIMARY KEY
(t3_Department_Name,t3_Department_ID,t3_Company_Name),
CONSTRAINT R_56 FOREIGN KEY (t3_Company_Name)
```

```
REFERENCES t3_INSURANCE_COMPANY (t3_Company_Name) ON DELETE CASCADE ON UPDATE
CASCADE
);
CREATE UNIQUE INDEX XPKDEPARTMENT ON t3_DEPARTMENT
(t3_Department_Name ASC,t3_Department_ID ASC,t3_Company_Name ASC);


CREATE TABLE t3_VEHICLE_SERVICE
(
t3_Department_Name VARCHAR(100) NOT NULL ,
t3_Vehicle_Service_Company_Name VARCHAR(10) NOT NULL ,
t3_Vehicle_Service_Address VARCHAR(200) NULL ,
t3_Vehicle_Service_Contact VARCHAR(200) NULL ,
t3_Vehicle_Service_Incharge VARCHAR(200) NULL ,
t3_Vehicle_Service_Type VARCHAR(200) NULL ,
t3_Department_ID VARCHAR(200) NOT NULL ,
t3_Company_Name VARCHAR(200) NOT NULL ,
CONSTRAINT XPKVEHICLE_SERVICE PRIMARY KEY
(t3_Vehicle_Service_Company_Name,t3_Department_Name),
CONSTRAINT R_50 FOREIGN KEY (t3_Department_Name, t3_Department_ID,
t3_Company_Name) REFERENCES t3_DEPARTMENT (t3_Department_Name,
t3_Department_ID, t3_Company_Name) ON DELETE CASCADE ON UPDATE CASCADE
);
CREATE UNIQUE INDEX XPKVEHICLE_SERVICE ON t3_VEHICLE_SERVICE
(t3_Vehicle_Service_Company_Name ASC,t3_Department_Name ASC);
```

```
CREATE TABLE t3_VEHICLE
(
t3_Vehicle_Id VARCHAR(20) NOT NULL ,
t3_Policy_Id VARCHAR(20) NULL ,
t3_Vehicle_Registration_Number VARCHAR(20) NOT NULL ,
t3_Vehicle_Value bigint NULL ,
t3_Vehicle_Type VARCHAR(20) NOT NULL ,
t3_Vehicle_Size INTEGER NULL ,
t3_Vehicle_Number_Of_Seat INTEGER NULL ,
t3_Vehicle_Manufacturer VARCHAR(20) NULL ,
t3_Vehicle_Engine_Number INTEGER NULL ,
t3_Vehicle_Chasis_Number INTEGER NULL ,
t3_Vehicle_Number INTEGER NULL ,
t3_Vehicle_Model_Number VARCHAR(20) NULL ,
t3_Cust_Id VARCHAR(20) NOT NULL ,
CONSTRAINT XPKVEHICLE_6 PRIMARY KEY (t3_Vehicle_Id,t3_Cust_Id),
CONSTRAINT R_92 FOREIGN KEY (t3_Cust_Id) REFERENCES t3_CUSTOMER
(t3_Cust_Id) ON DELETE CASCADE ON UPDATE CASCADE
);
CREATE UNIQUE INDEX XPKVEHICLE_6 ON t3_VEHICLE (t3_Vehicle_Id ASC,t3_Cust_Id ASC);


CREATE TABLE t3_PREMIUM_PAYMENT
(
t3_Premium_Payment_Id VARCHAR(20) NOT NULL ,
t3_Policy_Number VARCHAR(20) NOT NULL ,
```

```
t3_Premium_Payment_Amount INTEGER NOT NULL ,
t3_Premium_Payment_Schedule DATE NOT NULL ,
t3_Receipt_Id VARCHAR(20) NOT NULL ,
t3_Cust_Id VARCHAR(20) NOT NULL ,
CONSTRAINT XPKPREMIUM_PAYMENT_5 PRIMARY KEY
(t3_Premium_Payment_Id,t3_Cust_Id),
CONSTRAINT R_85 FOREIGN KEY (t3_Cust_Id) REFERENCES t3_CUSTOMER
(t3_Cust_Id) ON DELETE CASCADE ON UPDATE CASCADE
);
CREATE UNIQUE INDEX XPKPREMIUM_PAYMENT_5 ON
t3_PREMIUM_PAYMENT
(t3_Premium_Payment_Id ASC,t3_Cust_Id ASC);
```

```
CREATE TABLE IF NOT EXISTS t3_RECEIPT
(
t3_Receipt_Id VARCHAR(20) NOT NULL ,
t3_Time DATE NOT NULL ,
t3_Cost INTEGER NOT NULL ,
t3_Premium_Payment_Id VARCHAR(20) NOT NULL ,
t3_Cust_Id VARCHAR(20) NOT NULL ,
CONSTRAINT XPKRECEIPT_21 PRIMARY KEY (t3_Receipt_Id,t3_Premium_Payment_Id,t3_Cust_Id),
CONSTRAINT R_84 FOREIGN KEY (t3_Premium_Payment_Id, t3_Cust_Id)
REFERENCES t3_PREMIUM_PAYMENT (t3_Premium_Payment_Id, t3_Cust_Id) ON DELETE
CASCADE ON UPDATE CASCADE
);
CREATE UNIQUE INDEX XPKRECEIPT_21 ON t3_RECEIPT (t3_Receipt_Id ASC,t3_Premium_Payment_Id ASC,t3_Cust_Id ASC);
```

```
CREATE TABLE IF NOT EXISTS t3_APPLICATION
(
t3_Application_Id VARCHAR(20) NOT NULL ,
t3_Vehicle_Id VARCHAR(20) NOT NULL ,
t3_Application_Status CHAR(8) NOT NULL ,
t3_Coverage VARCHAR(50) NOT NULL ,
t3_Cust_Id VARCHAR(20) NOT NULL ,
CONSTRAINT XPKAPPLICATION_2 PRIMARY KEY (t3_Application_Id,t3_Cust_Id),
CONSTRAINT R_93 FOREIGN KEY (t3_Cust_Id) REFERENCES t3_CUSTOMER
(t3_Cust_Id) ON DELETE CASCADE ON UPDATE CASCADE
);
CREATE UNIQUE INDEX XPKAPPLICATION_2 ON t3_APPLICATION
(t3_Application_Id ASC,t3_Cust_Id ASC);
```

```
CREATE TABLE IF NOT EXISTS t3_INSURANCE_POLICY
(
t3_Agreement_id VARCHAR(20) NOT NULL ,
t3_Department_Name VARCHAR(20) NULL ,
t3_Policy_Number VARCHAR(20) NULL ,
t3_Start_Date DATE NULL ,
t3_Expiry_Date DATE NULL ,
t3_Term_Condition_Description VARCHAR(400) NULL ,
t3_Application_Id VARCHAR(20) NOT NULL ,
t3_Cust_Id VARCHAR(20) NOT NULL ,
```

```
CONSTRAINT XPKINSURANCE_POLICY_4 PRIMARY KEY
(t3_Agreement_id,t3_Application_Id,t3_Cust_Id),
CONSTRAINT R_95 FOREIGN KEY (t3_Application_Id, t3_Cust_Id) REFERENCES t3_APPLICATION
(t3_Application_Id, t3_Cust_Id) ON DELETE CASCADE ON UPDATE CASCADE
);
CREATE UNIQUE INDEX XPKINSURANCE_POLICY_4 ON t3_INSURANCE_POLICY
(t3_Agreement_id ASC,t3_Application_Id ASC,t3_Cust_Id ASC);


CREATE TABLE t3_POLICY_RENEWABLE
(
t3_Policy_Renewable_Id VARCHAR(20) NOT NULL ,
t3_Date_Of_Renewal DATE NOT NULL ,
t3_Type_Of_Renewal CHAR(15) NOT NULL ,
t3_Agreement_id VARCHAR(20) NOT NULL ,
t3_Application_Id VARCHAR(20) NOT NULL ,
t3_Cust_Id VARCHAR(20) NOT NULL ,
CONSTRAINT XPKPOLICY_RENEWABLE_16 PRIMARY KEY
(t3_Policy_Renewable_Id,t3_Agreement_id,t3_Application_Id,t3_Cust_Id),
CONSTRAINT R_101 FOREIGN KEY (t3_Agreement_id, t3_Application_Id, t3_Cust_Id)
REFERENCES t3_INSURANCE_POLICY (t3_Agreement_id, t3_Application_Id, t3_Cust_Id) ON DELETE
CASCADE ON UPDATE CASCADE
);
CREATE UNIQUE INDEX XPKPOLICY_RENEWABLE_16 ON
t3_POLICY_RENEWABLE
(t3_Policy_Renewable_Id ASC,t3_Agreement_id ASC,t3_Application_Id
ASC,t3_Cust_Id ASC);
```

```
CREATE TABLE IF NOT EXISTS t3_MEMBERSHIP
(
t3_Membership_Id VARCHAR(20) NOT NULL ,
t3_Membership_Type CHAR(15) NOT NULL ,
t3_Organisation_Contact VARCHAR(20) NULL ,
t3_Cust_Id VARCHAR(20) NOT NULL ,
CONSTRAINT XPKMEMBERSHIP_12 PRIMARY KEY
(t3_Membership_Id,t3_Cust_Id),
CONSTRAINT R_91 FOREIGN KEY (t3_Cust_Id) REFERENCES t3_CUSTOMER
(t3_Cust_Id) ON DELETE CASCADE ON UPDATE CASCADE
);
CREATE UNIQUE INDEX XPKMEMBERSHIP_12 ON t3_MEMBERSHIP
(t3_Membership_Id ASC,t3_Cust_Id ASC);

CREATE TABLE IF NOT EXISTS t3_QUOTE
(
t3_Quote_Id VARCHAR(20) NOT NULL ,
t3_Issue_Date DATE NOT NULL ,
t3_Valid_From_Date DATE NOT NULL ,
t3_Valid_Till_Date DATE NOT NULL ,
t3_Description VARCHAR(100) NULL ,
t3_Product_Id VARCHAR(20) NOT NULL ,
t3_Coverage_Level VARCHAR(20) NOT NULL ,
t3_Application_Id VARCHAR(20) NOT NULL ,
t3_Cust_Id VARCHAR(20) NOT NULL ,
```

```
CONSTRAINT XPKQUOTE_3 PRIMARY KEY

(t3_Quote_Id,t3_Application_Id,t3_Cust_Id),

CONSTRAINT R_94 FOREIGN KEY (t3_Application_Id, t3_Cust_Id) REFERENCES

t3_APPLICATION (t3_Application_Id, t3_Cust_Id) ON DELETE CASCADE ON UPDATE CASCADE

);

CREATE UNIQUE INDEX XPKQUOTE_3 ON t3_QUOTE

(t3_Quote_Id ASC,t3_Application_Id ASC,t3_Cust_Id ASC);



CREATE TABLE IF NOT EXISTS t3_STAFF

(

t3_Staff_Id VARCHAR(200) NOT NULL ,

t3_Staff_Fname VARCHAR(100) NULL ,

t3_Staff_LName VARCHAR(100) NULL ,

t3_Staff_Address VARCHAR(200) NULL ,

t3_Staff_Contact BIGINT NULL ,

t3_Staff_Gender CHAR(2) NULL ,

t3_Staff_Marital_Status CHAR(8) NULL ,

t3_Staff_Nationality CHAR(15) NULL ,

t3_Staff_Qualification VARCHAR(20) NULL ,

t3_Staff_Allowance bigint NULL ,

t3_Staff_PPS_Number bigint NULL ,

t3_Company_Name VARCHAR(400) NOT NULL ,

CONSTRAINT XPKSTAFF_9 PRIMARY KEY (t3_Staff_Id,t3_Company_Name),

CONSTRAINT R_105 FOREIGN KEY (t3_Company_Name) REFERENCES

t3_INSURANCE_COMPANY (t3_Company_Name) ON DELETE CASCADE ON UPDATE CASCADE

);
```

CREATE UNIQUE INDEX XPKSTAFF_9 ON t3_STAFF (t3_Staff_Id ASC,t3_Company_Name ASC);

CREATE TABLE t3_NOK

(

t3_Nok_Id VARCHAR(20) NOT NULL ,

t3_Nok_Name VARCHAR(20) NULL ,

t3_Nok_Address VARCHAR(200) NULL ,

t3_Nok_Phone_Number BIGINT NULL ,

t3_Nok_Gender CHAR(10) NULL ,

t3_Nok_Marital_Status CHAR(8) NULL ,

t3_Agreement_id VARCHAR(20) NOT NULL ,

t3_Application_Id VARCHAR(20) NOT NULL ,

t3_Cust_Id VARCHAR(20) NOT NULL ,

CONSTRAINT XPKNOK_14 PRIMARY KEY

(t3_Nok_Id,t3_Agreement_id,t3_Application_Id,t3_Cust_Id),

CONSTRAINT R_99 FOREIGN KEY (t3_Agreement_id, t3_Application_Id, t3_Cust_Id)

REFERENCES t3_INSURANCE_POLICY (t3_Agreement_id, t3_Application_Id, t3_Cust_Id) ON DELETE

CASCADE ON UPDATE CASCADE

);

CREATE UNIQUE INDEX XPKNOK_14 ON t3_NOK (t3_Nok_Id ASC,t3_Agreement_id ASC,t3_Application_Id ASC);

CREATE TABLE IF NOT EXISTS t3_PRODUCT

(

t3_Product_Number VARCHAR(200) NOT NULL ,

t3_Product_Price INTEGER NULL ,

```
t3_Product_Type CHAR(40) NULL ,
t3_Company_Name VARCHAR(200) NOT NULL ,
CONSTRAINT XPKPRODUCT_20 PRIMARY KEY (t3_Product_Number,t3_Company_Name),
CONSTRAINT R_107 FOREIGN KEY (t3_Company_Name) REFERENCES t3_INSURANCE_COMPANY
(t3_Company_Name) ON DELETE CASCADE ON UPDATE CASCADE
);
CREATE UNIQUE INDEX XPKPRODUCT_20 ON t3_PRODUCT (t3_Product_Number ASC,t3_Company_Name ASC);

CREATE TABLE IF NOT EXISTS t3_OFFICE
(
t3_Office_Name VARCHAR(200) NOT NULL ,
t3_Office_Leader VARCHAR(200) NOT NULL ,
t3_Contact_Information VARCHAR(200) NOT NULL ,
t3_Address VARCHAR(200) NOT NULL ,
t3_Admin_Cost INTEGER NULL ,
t3_Staff VARCHAR(50) NULL ,
t3_Department_Name VARCHAR(200) NOT NULL ,
t3_Department_ID VARCHAR(200) NOT NULL,
t3_Company_Name VARCHAR(200) NOT NULL ,
CONSTRAINT XPKOFFICE_11 PRIMARY
KEY(t3_Office_Name,t3_Department_Name,t3_Company_Name),
CONSTRAINT R_104 FOREIGN KEY (t3_Department_Name,t3_Department_ID,t3_Company_Name)
REFERENCES t3_DEPARTMENT (t3_Department_Name,t3_Department_ID,t3_Company_Name) ON
DELETE CASCADE ON UPDATE CASCADE
);
CREATE UNIQUE INDEX XPKOFFICE_11 ON t3_OFFICE (t3_Office_Name ASC,t3_Department_Name ASC,t3_Company_Name ASC);
```

```
CREATE TABLE IF NOT EXISTS t3_COVERAGE
(
t3_Coverage_Id VARCHAR(20) NOT NULL ,
t3_Coverage_Amount INTEGER NOT NULL ,
t3_Coverage_Type CHAR(30) NOT NULL ,
t3_Coverage_Level CHAR(30) NOT NULL ,
t3_Product_Id VARCHAR(30) NOT NULL ,
t3_Coverage_Description VARCHAR(400) NULL ,
t3_Coverage_Terms VARCHAR(50) NULL ,
t3_Company_Name VARCHAR(400) NOT NULL ,
CONSTRAINT XPKCOVERAGE_19  PRIMARY KEY
(t3_Coverage_Id,t3_Company_Name),
CONSTRAINT R_102 FOREIGN KEY (t3_Company_Name) REFERENCES
t3_INSURANCE_COMPANY (t3_Company_Name) ON DELETE CASCADE ON UPDATE CASCADE
);
CREATE UNIQUE INDEX XPKCOVERAGE_19 ON t3_COVERAGE
(t3_Coverage_Id ASC,t3_Company_Name ASC);
```

```
CREATE TABLE IF NOT EXISTS t3_INSURANCE_POLICY_COVERAGE
(
t3_Agreement_id VARCHAR(20) NOT NULL ,
t3_Application_Id VARCHAR(20) NOT NULL ,
t3_Cust_Id VARCHAR(20) NOT NULL ,
t3_Coverage_Id VARCHAR(20) NOT NULL ,
```

```
t3_Company_Name VARCHAR(200) NOT NULL ,
CONSTRAINT XPKINSURANCE_POLICY_4_COVERAGE PRIMARY KEY
(t3_Agreement_id,t3_Application_Id,t3_Cust_Id,t3_Coverage_Id,t3_Company_Name),
CONSTRAINT R_97 FOREIGN KEY (t3_Agreement_id, t3_Application_Id, t3_Cust_Id)
REFERENCES t3_INSURANCE_POLICY (t3_Agreement_id, t3_Application_Id, t3_Cust_Id) ON DELETE
CASCADE ON UPDATE CASCADE,
CONSTRAINT R_98 FOREIGN KEY (t3_Coverage_Id, t3_Company_Name)
REFERENCES t3_COVERAGE (t3_Coverage_Id, t3_Company_Name) ON DELETE CASCADE ON
UPDATE CASCADE
);
CREATE UNIQUE INDEX XPKINSURANCE_POLICY_4_COVERAGE ON
t3_INSURANCE_POLICY_COVERAGE
(t3_Agreement_id ASC,t3_Application_Id ASC,t3_Cust_Id ASC,t3_Coverage_Id
ASC,t3_Company_Name ASC);


CREATE TABLE IF NOT EXISTS t3_CLAIM
(
t3_Claim_Id VARCHAR(20) NOT NULL ,
t3_Agreement_id VARCHAR(20) NOT NULL ,
t3_Claim_Amount INTEGER NOT NULL ,
t3_Incident_Id VARCHAR(20) NOT NULL ,
t3_Damage_Type VARCHAR(20) NOT NULL ,
t3_Date_Of_Claim DATE NOT NULL ,
t3_Claim_Status CHAR(10) NOT NULL ,
t3_Cust_Id VARCHAR(20) NOT NULL ,
CONSTRAINT XPKCLAIM_7 PRIMARY KEY (t3_Claim_Id,t3_Cust_Id),
```

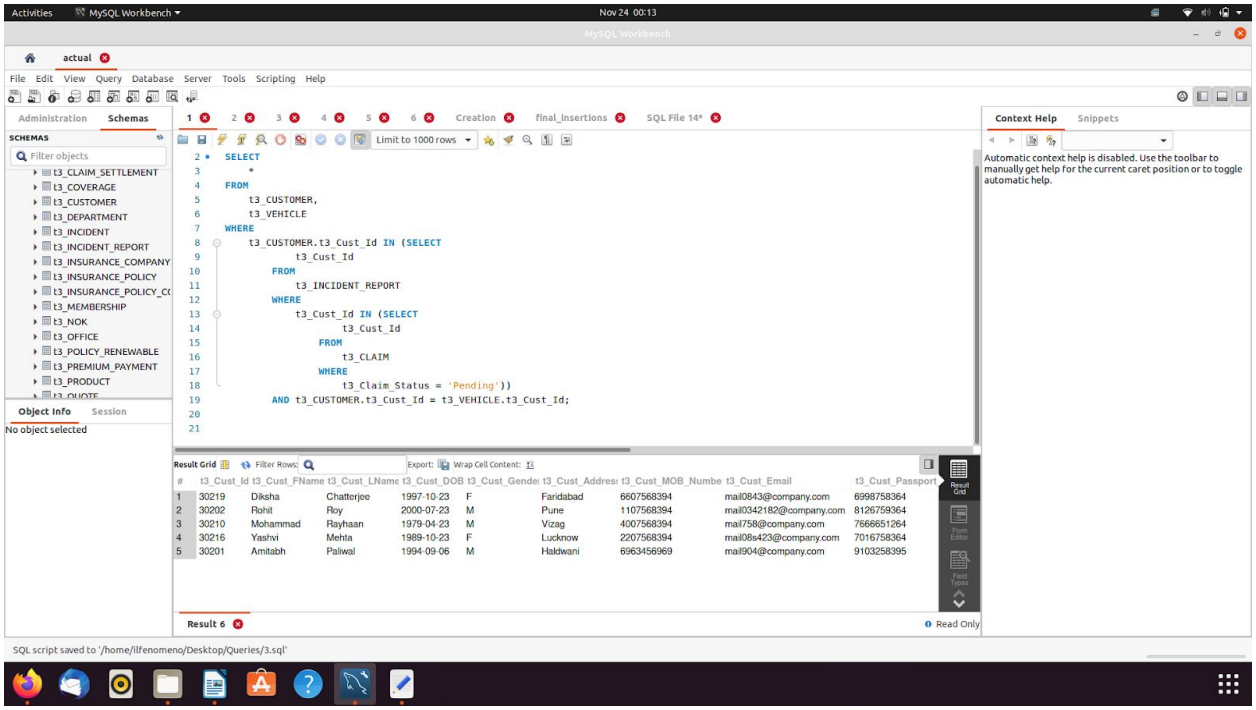
```
CONSTRAINT R_88 FOREIGN KEY (t3_Cust_Id) REFERENCES t3_CUSTOMER
(t3_Cust_Id) ON DELETE CASCADE ON UPDATE CASCADE
);
CREATE UNIQUE INDEX XPKCLAIM_7 ON t3_CLAIM
(t3_Claim_Id ASC,t3_Cust_Id ASC);

CREATE TABLE IF NOT EXISTS t3_CLAIM_SETTLEMENT
(
t3_Claim_Settlement_Id VARCHAR(20) NOT NULL ,
t3_Vehicle_Id VARCHAR(20) NOT NULL ,
t3_Date_Settled DATE NOT NULL ,
t3_Amount_Paid INTEGER NOT NULL ,
t3_Coverage_Id VARCHAR(20) NOT NULL ,
t3_Claim_Id VARCHAR(20) NOT NULL ,
t3_Cust_Id VARCHAR(20) NOT NULL ,
CONSTRAINT XPKCLAIM_SETTLEMENT_8 PRIMARY KEY
(t3_Claim_Settlement_Id,t3_Claim_Id,t3_Cust_Id),
CONSTRAINT R_90 FOREIGN KEY (t3_Claim_Id, t3_Cust_Id) REFERENCES t3_CLAIM
(t3_Claim_Id, t3_Cust_Id) ON DELETE CASCADE ON UPDATE CASCADE
);
CREATE UNIQUE INDEX XPKCLAIM_SETTLEMENT_8 ON
t3_CLAIM_SETTLEMENT
(t3_Claim_Settlement_Id ASC,t3_Claim_Id ASC,t3_Cust_Id ASC);
```

TESTING QUERY 1

```
SELECT
  *
FROM
  t3_CUSTOMER,
  t3_VEHICLE
WHERE
  t3_CUSTOMER.t3_Cust_Id IN (SELECT
      t3_Cust_Id
    FROM
      t3_INCIDENT_REPORT
    WHERE
      t3_Cust_Id IN (SELECT
          t3_Cust_Id
        FROM
          t3_CLAIM
        WHERE
          t3_Claim_Status = 'Pending'))
    AND t3_CUSTOMER.t3_Cust_Id = t3_VEHICLE.t3_Cust_Id;
```

OUTPUT QUERY 1

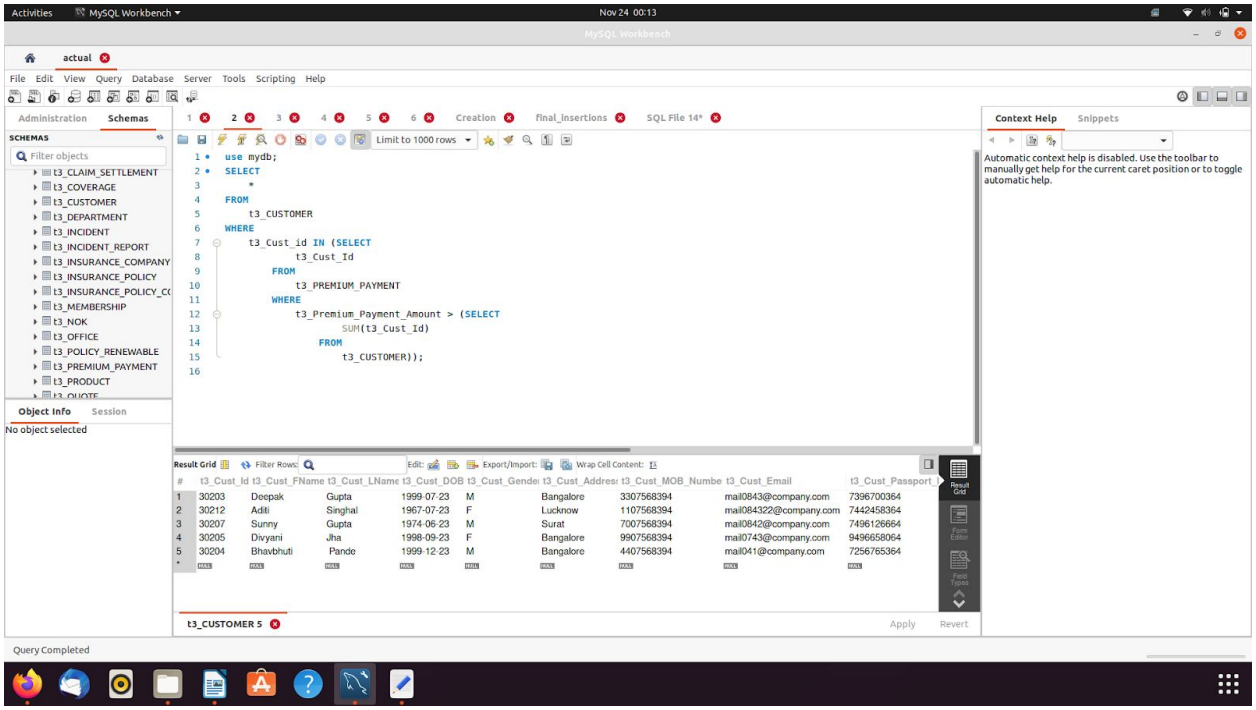


TESTING QUERY 2

```
SELECT
  *
FROM
  t3_CUSTOMER
WHERE
  t3_Cust_id IN (SELECT
      t3_Cust_Id
    FROM
      t3_PREMIUM_PAYMENT
    WHERE
      t3_Premium_Payment_Amount > (SELECT
```

```
        SUM(t3_Cust_Id)
    FROM
        t3_CUSTOMER));
```

OUTPUT QUERY 2

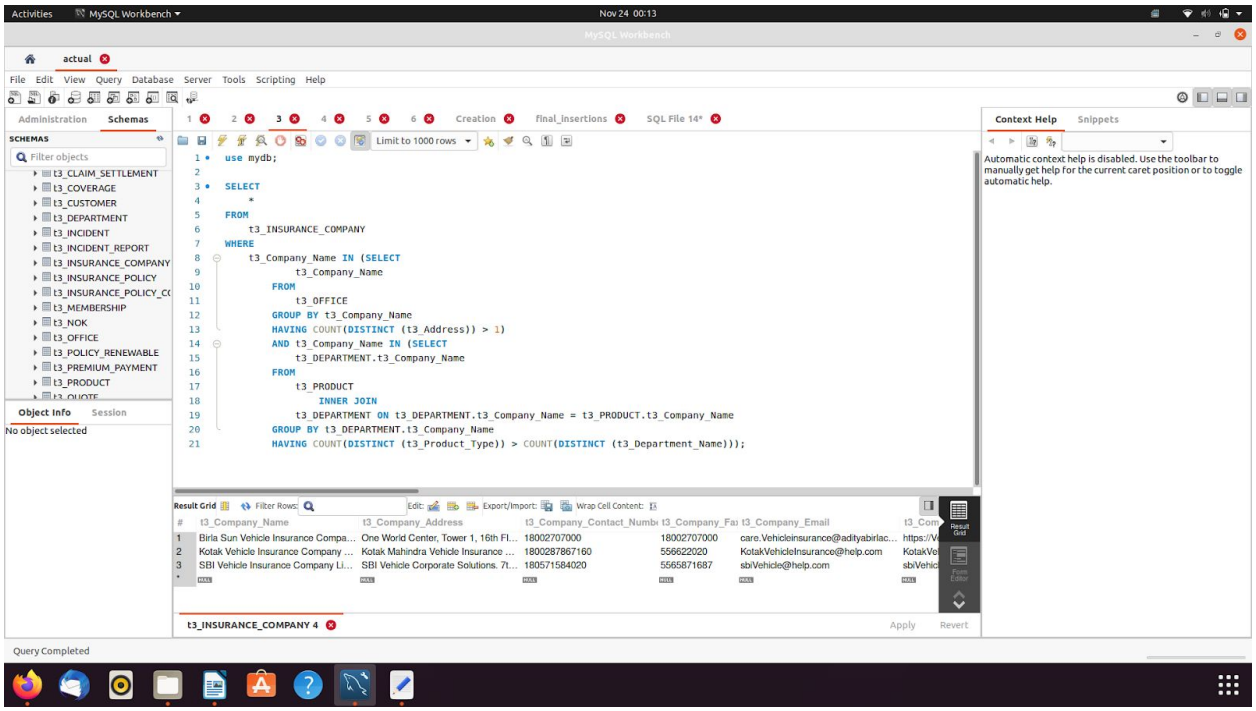


TESTING QUERY 3

```
SELECT
  *
FROM
  t3_INSURANCE_COMPANY
WHERE
  t3_Company_Name IN (SELECT
      t3_Company_Name
    FROM
```

```
    t3_OFFICE
GROUP BY t3_Company_Name
HAVING COUNT(DISTINCT (t3_Address)) > 1)
AND t3_Company_Name IN (SELECT
    t3_DEPARTMENT.t3_Company_Name
FROM
    t3_PRODUCT
        INNER JOIN
    t3_DEPARTMENT ON t3_DEPARTMENT.t3_Company_Name = t3_PRODUCT.t3_Company_Name
GROUP BY t3_DEPARTMENT.t3_Company_Name
HAVING COUNT(DISTINCT (t3_Product_Type)) > COUNT(DISTINCT (t3_Department_Name)));
```

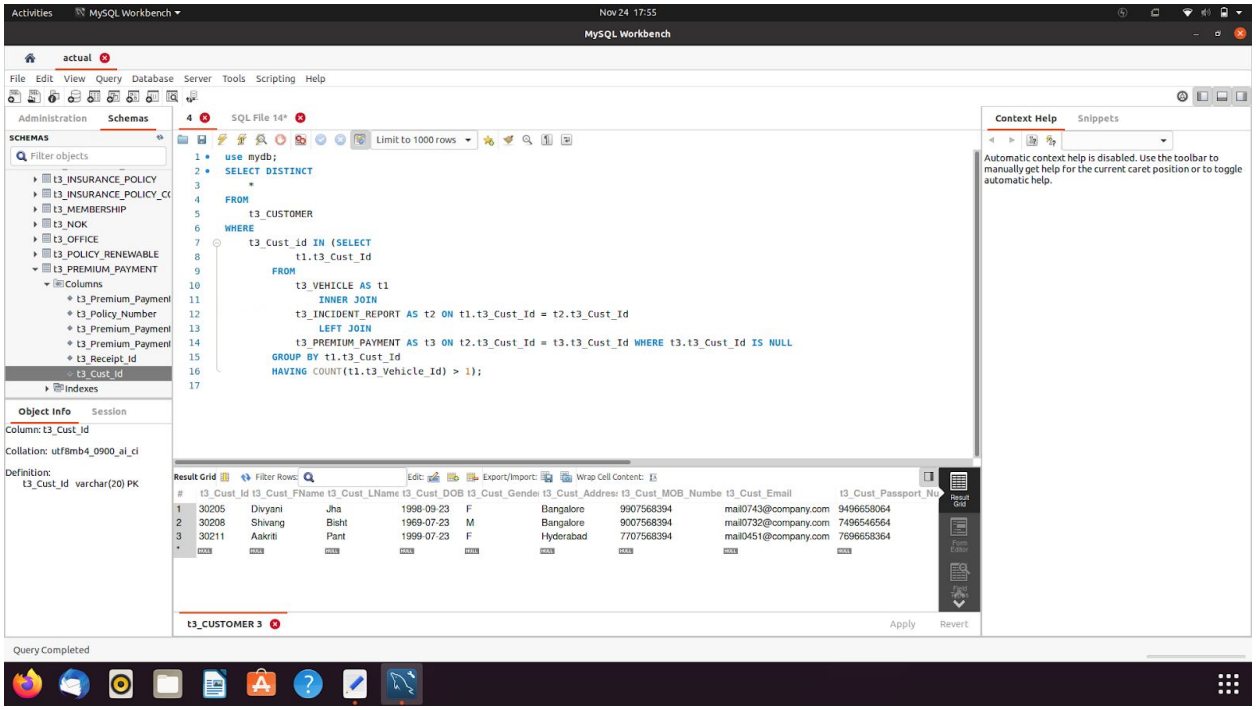
OUTPUT QUERY 3



TESTING QUERY 4

```
FROM
  t3_CUSTOMER
WHERE
  t3_Cust_id IN (SELECT
      t1.t3_Cust_Id
    FROM
      t3_VEHICLE AS t1
        INNER JOIN
      t3_INCIDENT_REPORT AS t2 ON t1.t3_Cust_Id = t2.t3_Cust_Id
        LEFT JOIN
      t3_PREMIUM_PAYMENT AS t3 ON t2.t3_Cust_Id = t3.t3_Cust_Id WHERE t3.t3_Cust_Id IS NULL
    GROUP BY t1.t3_Cust_Id
    HAVING COUNT(t1.t3_Vehicle_Id) > 1);
```

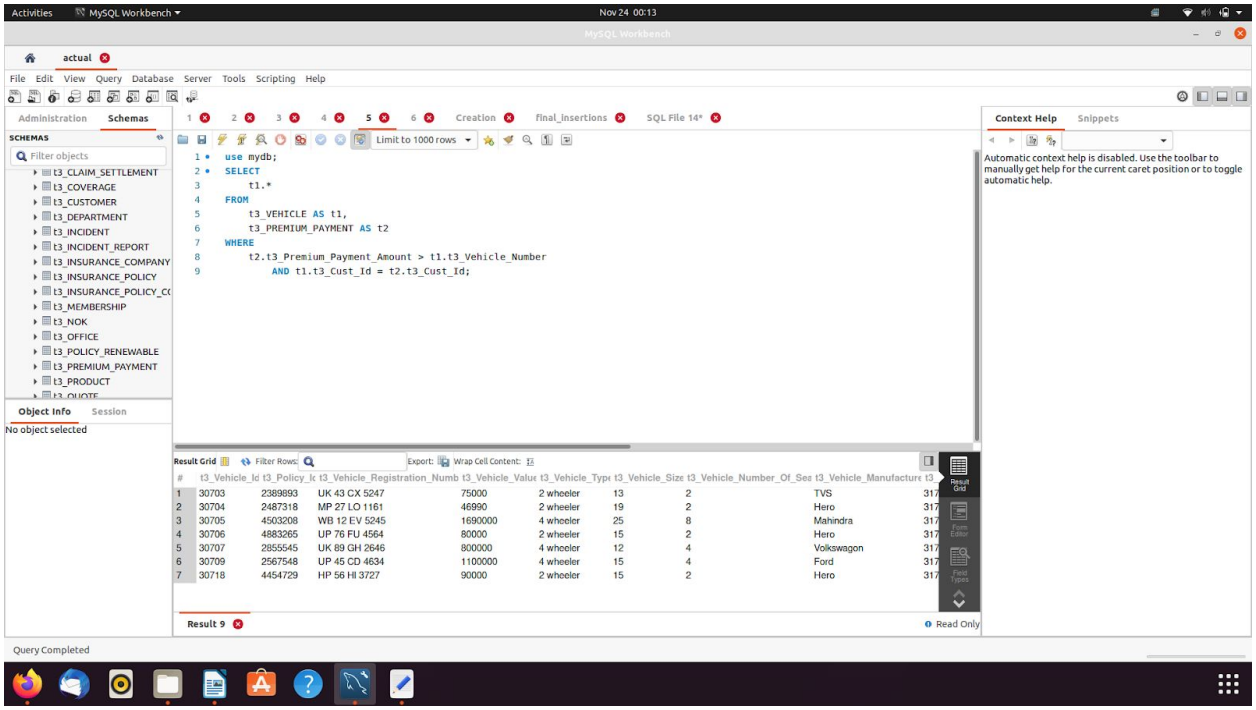
OUTPUT QUERY 4



TESTING QUERY 5

```
SELECT
   t1.*
FROM
   t3_VEHICLE AS t1,
   t3_PREMIUM_PAYMENT AS t2
WHERE
   t2.t3_Premium_Payment_Amount > t1.t3_Vehicle_Number
      AND t1.t3_Cust_Id = t2.t3_Cust_Id;
```

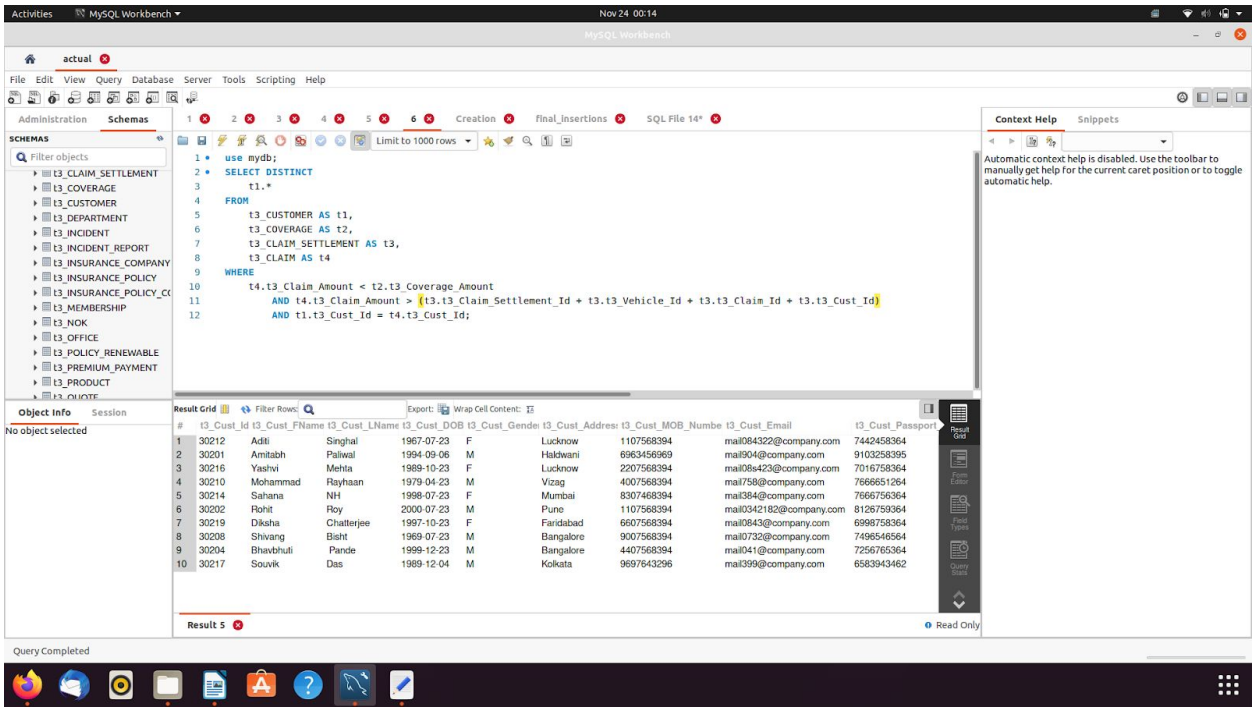
OUTPUT QUERY 5



TESTING QUERY 6

```
SELECT DISTINCT
   t1.*
FROM
   t3_CUSTOMER AS t1,
   t3_COVERAGE AS t2,
   t3_CLAIM_SETTLEMENT AS t3,
   t3_CLAIM AS t4
WHERE
   t4.t3_Claim_Amount < t2.t3_Coverage_Amount
      AND t4.t3_Claim_Amount > (t3.t3_Claim_Settlement_Id + t3.t3_Vehicle_Id + t3.t3_Claim_Id +
t3.t3_Cust_Id)
      AND t1.t3_Cust_Id = t4.t3_Cust_Id;
```

OUTPUT QUERY 6



Conclusion

We have a class project created database (DB) with all documentations and reports included. Our goal was to create a DB for Online vehicle insurance companies with code generated for MySQL workbench. There were some big and small challenges but we succeeded in making a functional DB. We started to build conceptual data models (CDM) , we continued with logical data models (LDM) and then we made physical data models (PDM). From the physical data model we created a code to be run in MySQL database management system (DBMS). For better understanding for a reader and for our learning we included some theory in each phase we did and documented in the project initial document (PID) with reports of progress and work being done.