DBMS Project

Vehicle Insurance company Database Design

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Objective:

To design a Insurance database which can store all the data of customers ,their payment history ,claims and the successful payment of claims by the Insurance company.This project is aimed to give Industry experience in real life database designing process.

Project Scope and purpose:

This can be actually converted into an actual mysql code and can be deployed onto a server.It can efficiently manage multiple users and can store data with full reliability.It can be implemented at a company and can be converted into a startup.

Conceptual Model:

Design Rules:

To design our car insurance database conceptual data model we first needed to decide what characteristics underpin the model under investigation. As a group we decided on various rules that need to be implemented in order for the model to be consistent and precise.

The Tables are written with format =teamnum+tablename

Attributes are written with format =teamnum_Tablenumber_attribute

Primary keys are different for all the data in the table.

Assumptions :

Customers must have a permanent international driving licence.

The online insurance has no physical high-street presence.

The online insurance is given to customers over 18 years of age.

The online insurance needs some driving history of the customer.

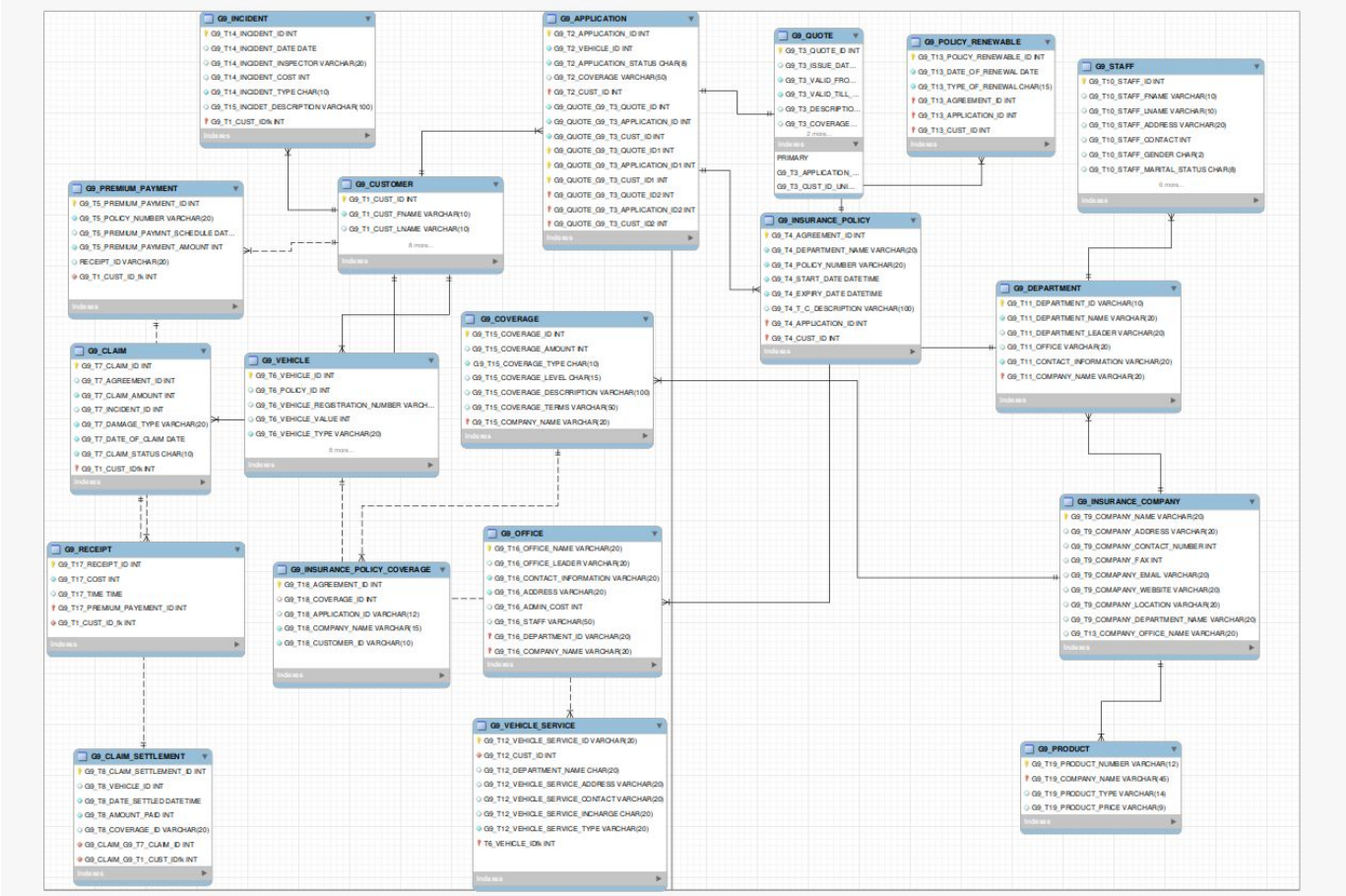
The online insurance needs to know the type of car customer drives.

The online insurance needs to know about the insurance history of the customer.

Entities:

G9_CUSTOMER Records all the personal details about the customer
G9_APPLICATION Records details of the insurance cover requested by Customer
G9_QUOTE Records details of customer potential cost of the insurance product
G9_INSURANCE POLICY Records details of Insurance agreement
G9_PREMIUM Records details of customer payments
G9_VEHICLE Records details of Vehicle model, cost and registration
G9_CLAIMS Records details of customer claims in case of an incident
G9_SETTLEMENTS Records details of settlement made on claims
G9_STAFF Records details of employees
G9_DEPARTMENT Records details of the various departments
G9_OFFICE Records details of different office locations
VEHICLE INSURANCE Records details of vehicle insurance cover **DEPARTMENT**
G9_RECEIPT Records details of Receipt of Premiums
G9_COMPANY Details of the Insurance organization giving the insurance cover

Logical Data Model:

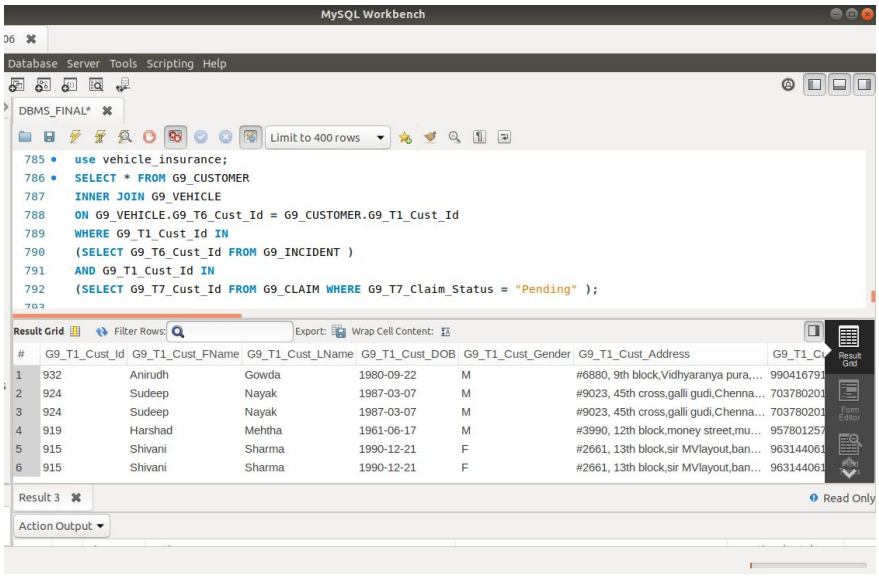


Physical Data Model :

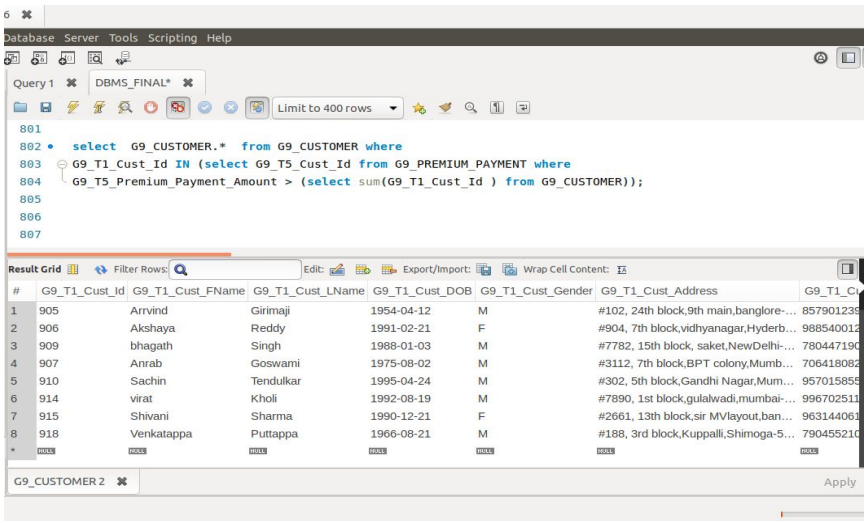
Refer to the code -open here

Queries and their outputs:

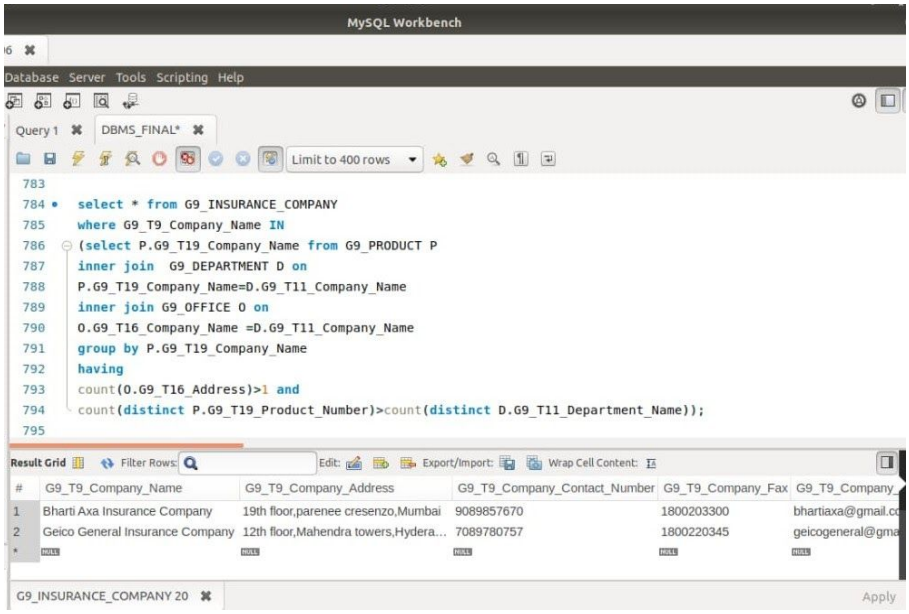
1. Retrieve Customer and Vehicle details who has been involved in an incident and claim status is pending.



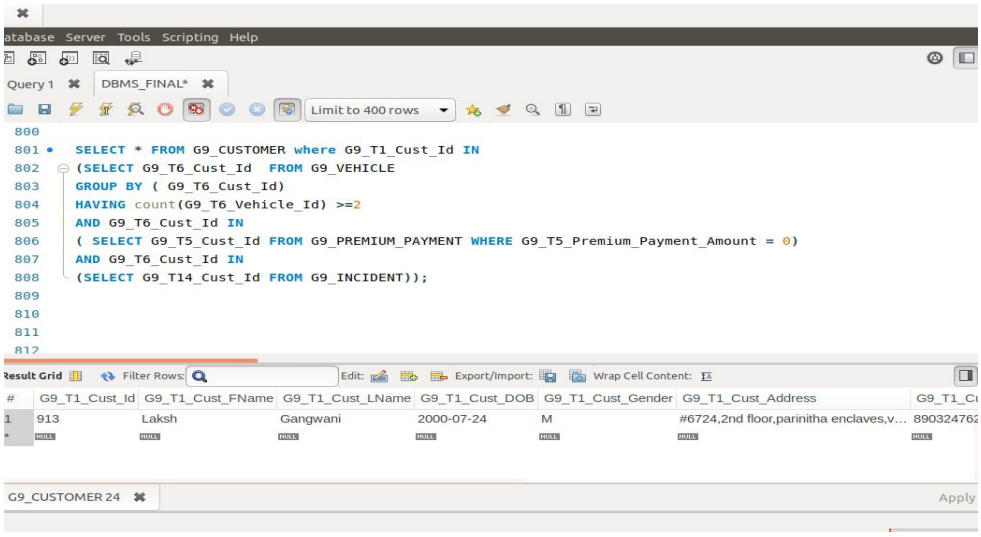
2. Retrieve customer details who has a premium payment amount greater than the sum of all the customerIds in the database.



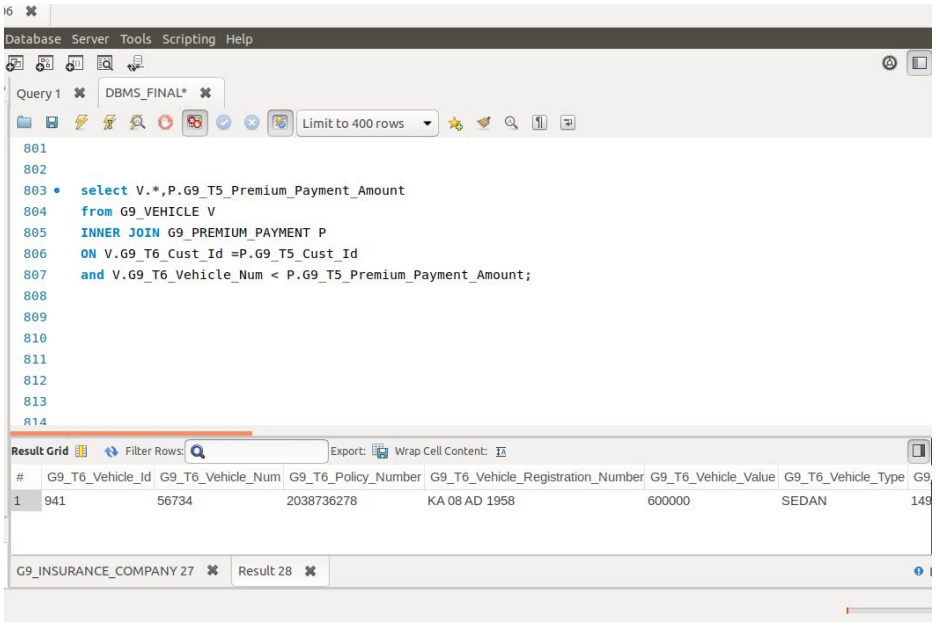
3. Retrieve Company details whose number of products is greater than departments, where the departments are located in more than one location.



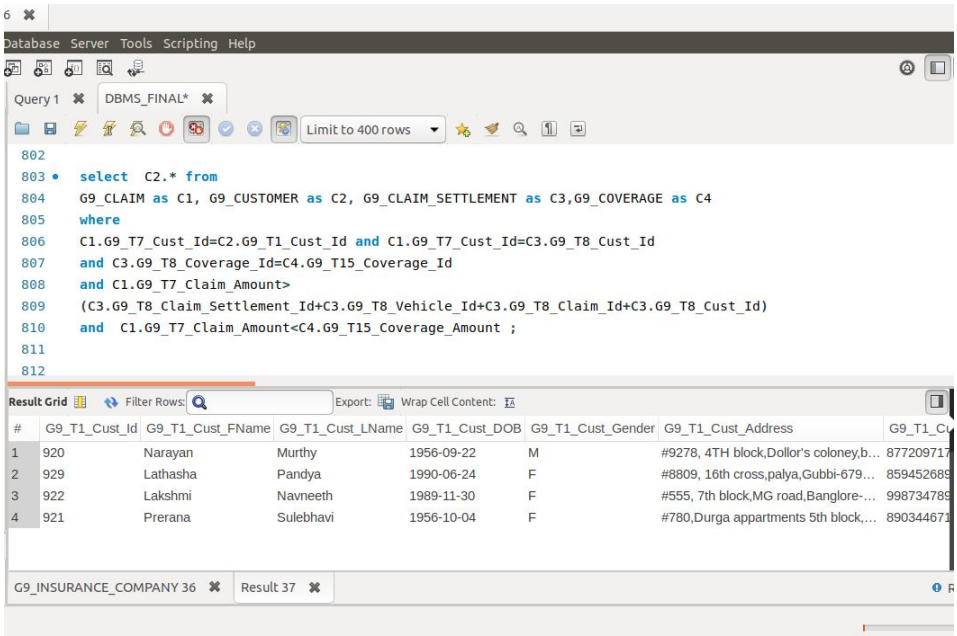
4.Select Customers who have more than one Vehicle, where the premium for one of the Vehicles is not paid and it is involved in accident



5.Select all vehicles which have premium more than its vehicle number.



6.Retrieve Customer details whose Claim Amount is less than Coverage Amount and Claim Amount is greater than Sum of (CLAIM_SETTLEMENT_ID, VEHICLE_ID, CLAIM_ID, CUST_ID)



CODE FOR QUERIES HERE

Contributions By Team Members:

Asutosh Ghanto-LDM/PDM

Ankitha S Madanbhavi - CMD/PDM

Akshaya -PDM/LDM

Harshitha-CDM/PDM

Laksh-PDM

Leena-PDM

Avinash-PDM

Sujeet-PDM Pratyush-PDM

Skills Learnt Through This Project:

We learnt how to work in a group to complete any work.

We learnt MySQL thoroughly and now we can make a custom database and insert values in it from scratch.

We learnt to make ER diagrams and also to make forward engineering to generate sql code.

We learnt about the theory of RDBMS databases now we can work with any RDBMS database with ease.