VEHICLE INSURANCE DATABASE

UNDER THE GUIDANCE OF

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AIM:

To understand real world projects and get a thorough understanding on DBMS and also, to learn how to write complex queries and to learn how to work in teams to achieve desired output.

APPROACH:

Went through the given documents and had a thorough understanding on databases and their relationships and then we drew the er diagram and through that we created tables and relationships and after data entry we wrote queries and then created presentation and after that made the report.

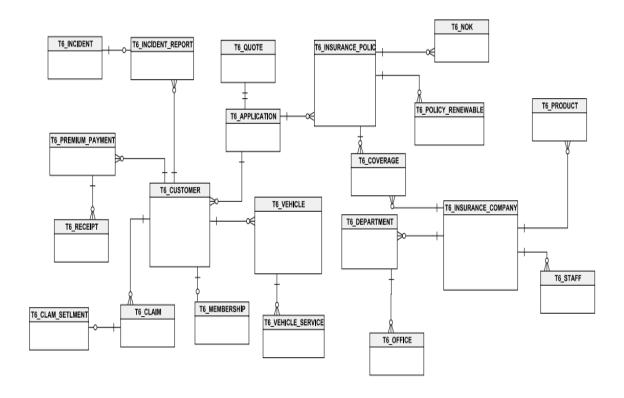
Procedure:

We created tables using create statement and then inserted data into it using insert into statements and then in the middle if we had to change the tables we used alter statements , and then to update statements we used update statement to update the values , and then after creating the tables and inserting , we had to alter most of the table's data as according to the queries and then we wrote queries mainly using joins , subqueries , group by , order and many other statements .

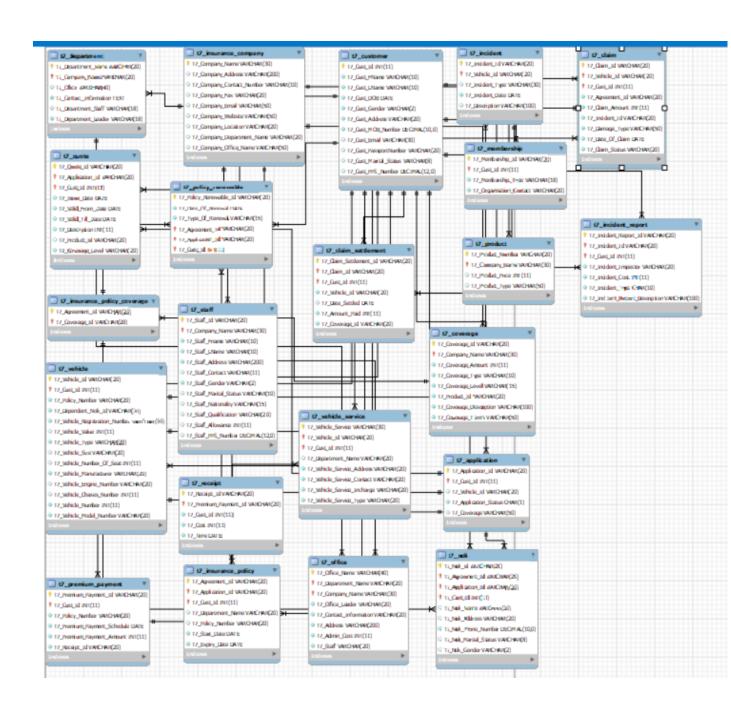
TIMELINE:



CONCEPTUAL DATA MODEL:

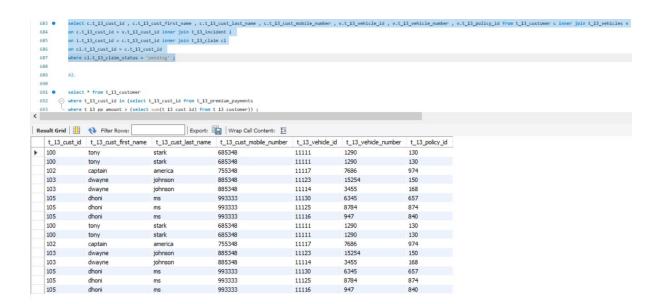


E-R DIAGRAM:

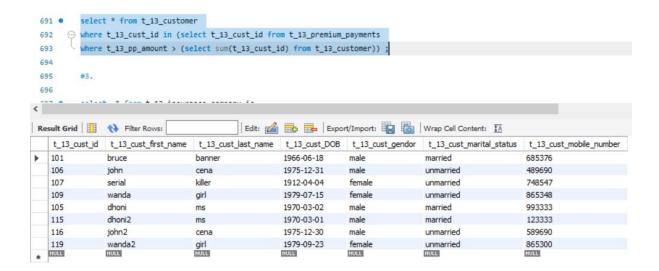


QUERIES:

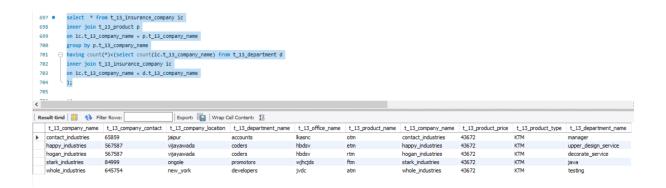
 Retrieve Customer and Vehicle details who has been involved in an incident and claim status is pending – Customer, vehicle, claim status, incident.



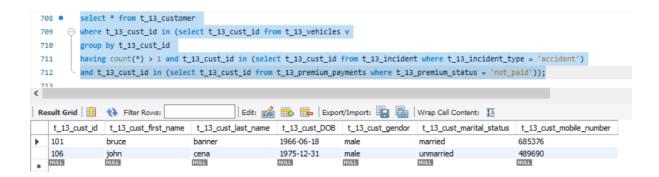
 Retrieve customer details who has premium payment amount greater than the sum of all the Customer Ids in the database – premium payment, customer



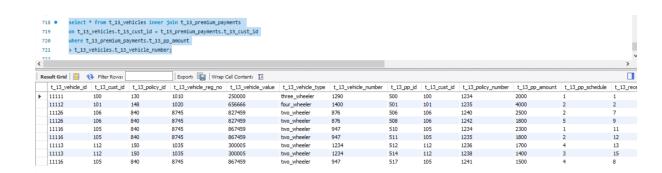
3. Retrieve Company details whose number of products is greater than departments, where the departments are located in more than one location—company, product, departments, office



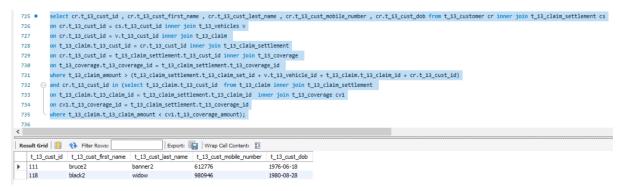
4. Select Customers who have more than one Vehicle, where the premium for one of the Vehicles is not paid and it is involved in accident



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



 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)



DIFFICULTIES FACED:

1. FOREIGN KEY CONSTRAINT:

While writing queries we had to check if the table that is being related by the foreign key has been created or not, if not we had to first create it and then relate it.

2. ALTERING THE DATABASE:

We had to alter some values according to the Queries as the id's weren't Satisfying some of the conditions.

3. Saving the Query:

Once, we forgot to save the query and then it got deleted we had to redo it again.

CONCLUSION:

We have successfully created the database for vehicle insurance company and executed all the given queries.