



## **DATABASE MANAGEMENT SYSTEM (CS310)**

### **PROJECT TITLE -**

**Database design on Car vehicle insurance company**

### **Under the Guidance of -**

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## **PROJECT TITLE**

A database for a Vehicle Insurance Company.

## **PURPOSE**

This module provides a comprehensive discussion of, and practical experience in, advanced entity modelling; normalisation; transactional relational database design; SQL coding; and generation of data backed management reports.

## **PROJECT BENEFITS**

To make a good DB, that could be used with analytical tools and faster in delivering the right data at the right time for better decision making.

## **ABSTRACT**

The Insurance management system is a complete solution for organizations, which need to manage insurance for their vehicles, equipment, buildings, and other resources. Organizes and tracks insurance vendors and the policies provided under different coverage.

Insurance policy administration system consists of a mathematical notation that captures the relationship between policies and objects and the entities that manage policies for those objects.

Hence there is a need for an automated system, which can efficiently manage the company, records, provides instant access and one that improves productivity. As a result of this automated system, the activities of the company are performed within the stipulated time and the reliable and efficient service is ensured to its users.

The insurance company needs to keep track of details of its target companies, agents, policyholders, their premium payments and the various products that are available with it. Hence it is under tremendous pressure maintaining their day-to-day activities, which is currently being done manually.

Entire records have to be updated timely, even a slight mistake could complicate things.. It is time consuming to summarize these details to produce the reports.

## **INTRODUCTION**

Relational databases are logical collections of inter-related data in tabular form relational databases have always been core to any management system. Its relevance is profound and hence the need to incorporate new functionalities, utilities becomes important. These are currently the predominant choice in storing financial records manufacturing and logistical information, personnel data and much more.

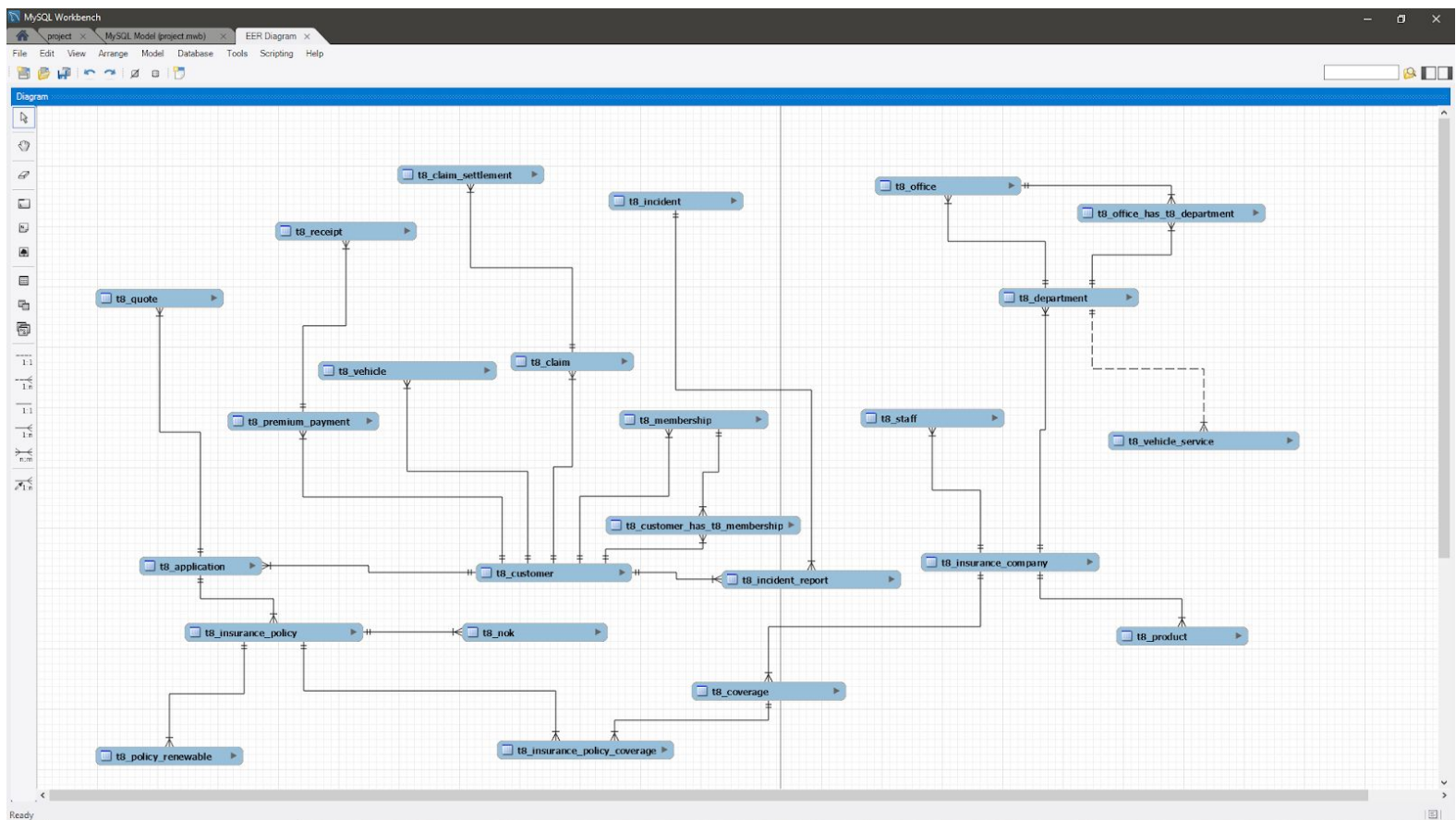
Relational databases are used in huge management systems like Post Office, Banking, Railway, Defence Logistics. Databases pertaining to Educational Institutions and other large collection of related data.

Relational databases have largely replaced hierarchical databases and network databases because they are easy to understand and use even though they are much less efficient.

**The software components used in our project are as under:**

MY SQL WORKBENCH

## Logical Data Model (LDM)



## Relationship of entities for car insurance database

**Customer** one to many **Claim**

**Customer** one to many **Vehicle**

**Customer** one to many **Premium payment**

**Customer** many to many **Membership**

**Customer** many to many **Incident**

**Customer** one to many **Incident report**

**Customer** one to many **Application**

**Application** one to many **Quote**

**Application** one to many **Insurance policy**

**Insurance policy** one to many **Insurance policy coverage**

**Insurance policy** one to many **Policy renewable**

**Insurance policy** one to many **Nok**

**Premium\_payment** one to many **Receipt**

**Claim** one to many **Claim settlement**

**Insurance company** one to many **Staff**

**Insurance company** one to many **Coverage**

**Insurance company** one to many **Product**

**Insurance company** one to many **Department**

**Department** one to many **Vehicle service**

**Office** many to many **Department**

**Coverage** one to many **Insurance policy coverage**