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| **MySQL Project** |
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| Car Rental Service |

MySQL Project

Executive Summary

**Objective**

This database is used to keep track of information about a car rental service, including available offices, cars, and insurance providers.

**Goals**

The goal of this database is to provide a way to simply manage all of the information and data that pertains to a car rental service. This includes storing information relating to the operations of the service, as well as retrieving information through our queries.

**Solution**

Our proposed solution is to build a database with several different tables of information which relate to each other. These tables include ***Office, Customer, Car, Insurance, Office\_has\_customer***, and ***Customer\_car\_rental***. Creating these tables allows us to represent the important aspects of a car rental service, as well as provide relationships between them. By using these tables, we can create queries to provide any information needed to operate the service.

This project will be implemented in SQL using MySQL Workbench.

**Benefits to Users**

This database provides a simple and easy method to organize, retrieve, and manipulate all information necessary to the operation of a car rental service.

**Project Outline**

The project will contain the following major components:

* Entity-Relationship Diagram
* Table Implementation
* Queries

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Entity-Relationship Diagram

A screenshot of a computer

Description automatically generated

Tables

Table Implementation

Office

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Customer

A screenshot of a phone number

Description automatically generated

Car

A screenshot of a computer

Description automatically generated

Office\_has\_Customer

A screenshot of a computer

Description automatically generated

Customer\_Car\_Rental

A screenshot of a table

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Insurance

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Query Implementation

### Query 1

* Lists all customers who live in either “Lawrenceville” or “North East.”

### Query 2

* Lists customers whose first name starts with “S” or “B.”

### Query 3

* Lists cars which have a stock between 5 and 10.

### Query 4

* Lists customers names and their associated rental car make and model.

### Query 5

* Lists the total cost of each insurance plan including a $10 convenience fee.

### Query 6

* Lists the number of cars each office has.

### Query 7

* Lists customers who have rented a car from an office in Georgia.