COMP 2714 – RELATIONAL DATABASE SYSTEMS

Tutorial – DML Basics, Joins, Aggregates

Analysis of the Car Rental Report for AutoRental Franchise Inc. provided the following data requirements information:

Outlet	**(outletNo, outletName, outletCity)**
Vehicle	**(outletNo, vehNo, vehDesc, vehSize, licPlate, dailyRate)**
Customer	**(custNo, custName, custAddr, driverLic)**
Rental	**(outletNo, vehNo, startDate, endDate, custNo)**

Considering the above relational database schema, write SQL DML statements for the queries below:

1. **List all outlet information, in ascending order by city, then by outlet name.**

2. **List cars for all car sizes except Compact and Midsize, with a daily rate above $30 per day, giving the outlet number, vehicle number, vehicle size and daily rate. List outlet number in ascending order, then daily rate in descending order.**

3. **List the vehicle size and daily rate for all vehicles at the Brentwood outlet, in ascending order for vehicle size, then descending order for daily rate.**

4. **List the names and addresses of all customers living in Vancouver, ordered by name.**

5. **List all customers who are currently renting a vehicle from the Metrotown outlet, in order of vehicle number.**

6. **How many different vehicle sizes, and vehicles (i.e. the total number of vehicles), are available at the Brentwood outlet?**

7. **What is the lowest and the highest rental rate at the Metrotown outlet?**

8. **What is the average 10-day rental cost for a Compact or Midsize vehicle at the Lougheed outlet?**

9. **What is the total possible revenue per day from all car rentals priced from $20.00 to $60.00 per day?**

10. **Assume that all old rental rows had been archived and deleted (up till 2014-12-31) from the Rental table (i.e. Rental table contains only rows for current year rentals). What percentage of customers has rented at least once this current year?**