Tutorial – DML Aggregates, Subqueries

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

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

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

1. How many different vehicle sizes, and vehicles (i.e. the total number of vehicles), are available at each of the Burnaby outlet?

2. List each Burnaby outlet (in descending order) together with its average daily rate, if its average rate is higher than the overall average rate in Burnaby.

3. The manager at the Metrotown outlet is analysing its outlet performance, and need a daily list of all vehicles operated by the Metrotown outlet, including the customer information if the vehicle is rented out.

4. January 2009 was Burnaby month. Those customers living in Burnaby and had rented a vehicle from a Burnaby outlet in January are eligible to enter a draw for a holiday prize. Find the eligible customers for the draw.

5. The Burnaby area VP wants to do an advertising campaign, and needs a mailing list of all customers living in Burnaby, who have not rented from a Burnaby outlet as yet this year.

6. The Burnaby area VP is planning the rental fleet for next year, and wants to find out the most popular vehicle size(s) rented out in Burnaby.

7. The Burnaby area VP, in addition, asks for a list giving each outlet and the most popular vehicle size(s) rented out from that outlet.

8. The president of AutoRental wants to be kept informed of the financial result at each outlet. Provide a daily list giving the possible, actual and lost revenue at each outlet.