CIT 225 Lab3 Instructions

Lab 3 will give you extensive practice at writing queries (producing reports) from the truck database that you have built and populated. The queries will involve joins, aggregates, selective aggregation, built-in functions and formatting.

1. Run the lab2.sql script.
2. Produce a report to show the number of hauls by client sorted by client name ascending.

Client                              Haul Count

Idaho Potatoes Inc            15

Oregon Lumber Inc           20

Washington Apples Inc     15

1. Produce a report to show the number of hauls by driver and truck. The driver will be the employee’s first and last name together. Sort the report by driver and haul count descending.

Driver                         Truck                 Haul Count

Judy Shaw    Big Dog   5

Judy Shaw    Classy Cat    5

Judy Shaw    Mad Max    4

Matt Maloney    Mad Max    8

Matt Maloney    Classy Cat    8

Matt Maloney    Big Dog    5

Troy Taylor    Mad Max    8

Troy Taylor    Big Dog    4

Troy Taylor    Classy Cat    3

1. Produce a report that shows the same data as the last report but pivots the data to be two-dimensional. Sort the report by driver. (Do not use the Oracle Pivot clause, I want you to use selective aggregation.)

Driver                Big Dog        Classy Cat        Mad Max

Judy Shaw    5    5    4

Matt Maloney    5    8    8

Troy Taylor    4    3    8

1. Produce a report that shows the total mileage by each driver. This will be easier if you add extra rows to the mileage table so it is a bi-directional table.
   1. Write one insert statement that inserts six more rows into the mileage table making it bi-directional.
   2. Write the report to show the total mileage by driver.

Driver                Total Mileage

Matt Maloney      14,196

Troy Taylor      10,491

Judy Shaw      10,471

1. Produce a report that shows the mileage by driver by month. This report should be a two-dimensional matrix of numbers. (Use selective aggregation.)

Driver                 Nov         Dec        Jan         Feb   Total Mileage

Troy Taylor       3,200       1,242       5,249         800      10,491

Matt Maloney    3,574       5,623       3,694       1,305      14,196

Judy Shaw       2,547       3,964       3,117         843      10,471

1. Starting from the report you wrote in step 6 produce another report that shows the mileage and gross revenue by driver by month. You will need to expand the from clause to include the vehicle, season and rate tables. (Use selective aggregation.)

Driver            Nov             Nov Gross Rev        Dec             Dec Gross Rev          Jan             Jan Gross Rev         Feb         Feb Gross Rev            Total Mileage           Total Gross Rev

MattMaloney       3,574      $31,467.00       5,623      $26,570.50       3,694      $17,965.00       1,305       $6,525.00      14,196      $82,527.50

TroyTaylor       3,200      $28,612.00       1,242       $5,705.00       5,249      $25,866.50         800       $4,400.00      10,491      $64,583.50

JudyShaw       2,547      $22,333.50       3,964      $18,283.00       3,117      $15,985.00         843       $4,215.00      10,471      $60,816.50