Lab 8 – Power BI

Overview

Wally's Wonderful Wheels management has requested Employee Sales report and BI dashboard to be developed to improve their decision-making process. Management would like to analyse Employee and Vehicle Sales. By year, quarter, and month. Data for reports and dashboard should be pulled out from the dealership **data warehouse**.

Step 1 – Employee Sales Report

Use **SQL Server Reporting Services** to create Employee sales report.
Report should display employee sales data in tabular format. All commission employees should be returned including those who did not sell any cars.

The following data should be displayed on the report:

Employee name, Email, Age, Years of service, Commission Percentage, Sale Commission,
Customer Name, Customer Registration Date, Title, **Dealership** Name, Dealership Street Address, Dealership City, Dealership Province,
Vehicle Make, Model, Year, Km, Price, Final Sale Price, Sales Year, Quarter and Month.
Create reusable SQL object so it can be used in multiple places if necessary.

Step 2 – Employee Sales Power BI dashboard

Build Power BI dashboard to display:

- 1) Table Report from step 1 – You should use the view you created in step 1

- 2) Three visualizations of your choice:

    - a) Sales by employee per month/quarter/year

    - b) Sales by vehicle (make and model) per month/quarter/ year

    - c) Anything else you would like to display. Use 3 different visualizations.

What to submit?

- 1) One PDF document showing steps you performed in creating SSRS Report and Power BI dashboard.
  This document should include cover page with your info (Student name and number).
  Make sure to include step headers and any necessary explanations.
  Do not forget to test your report with different options (input parameters) and display results in this document.
  PDF document should be in landscape format with narrow margins.
  Document the following steps:

- Create main view that is used to display data in report and test it.

- Create main stored procedure and test it. Screen shot should include stored procedure and test.
  Please see W12 in class exercise to see how to test stored procedure.

- Show major steps in report development.

- Test report by selecting different parameter options. Show minimum 3 tests.
  Test 1 – Nothing is selected (All data should be returned including employee who did not make any sales) **Test 2** – Only Employee Last Name is selected (Your choice)
  Test 3 – Year and month are selected (Your choice)

- Display power BI dashboard

- 2) One SQL script that includes the view, stored procedure, or any other script you used for reports.