DBW624 - Assignment 4 Business Analytic Application

Now that we have a complete data warehouse, loaded with data, we are going to build our Business Intelligence (BI) application which will actually answer the business questions below, which were highlighted in Assignment 1.

Here are the business analytics we will want to perform.

- 1. Sales Volumes Analysis by fiscal guarter
 - a. By Store
 - b. By Product
 - c. By Product Group (Age Group)
- 2. Sales Revenue Analysis by fiscal quarter
 - a. By Store,
 - b. By Product
 - c. By Product Group (Age Group)
- 3. Sales Profit Analysis by fiscal quarter
 - a. By Store,
 - b. By Product
 - c. By Product Group (Age Group)
- 4. Product Line Analysis by fiscal quarter, measured by revenue and profit
 - a. Which products have been the most / least successful
 - b. Which product groups have been the most / least successful
 - c. What is the product trends (growth or declining)?
- 5. Store Analysis by fiscal quarter, measured by revenue and profit
 - a. Which stores are the most / least successful
 - b. What is the growth trends for each store (growth or declining)?
- 6. Additional Analysis
 - a. Which names have been most successful by volume
 - b. Which gender has been most successful by volume
 - c. Who was the top sales person for the quarter?
 - d. What percentage of sales are cash versus credit card?
 - e. What percentage of sales were using a marketing campaign?
- 7. Analytics Against Reference Tables
 - a. Which ten cities should we open stores in, based on population?
 - b. Which names should we expect will be the most popular for our personalized products?

For each of the business questions above, write a SQL query which provides the business answer.

What you need to hand in is a copy of your BI application showing both the SQL used to run the required analytic query and the result set.

This will be worth 6% of your final mark.