SQL CASE STUDY- ADVANCE

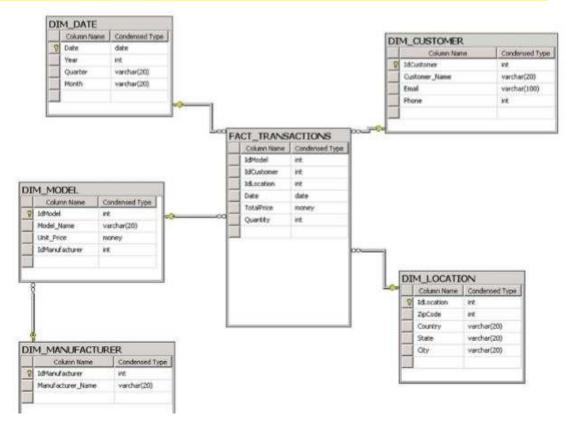


<u>Business Scenario:</u> The database "Cellphones Information" contains details on cell phone sales or transactions.

Detailes stored are: Dim_manufacturer, Dim_model, Dim_customer, Dim_Location and Fact_Transactions.

The first four store entries for the respective elements and Fact_Transactions stores all the information about sales of specific cellphones.

<u>Data Availability:</u> Assume that you do not have access to the data. Hence, pls create a schema based on the representation below to work on the case study

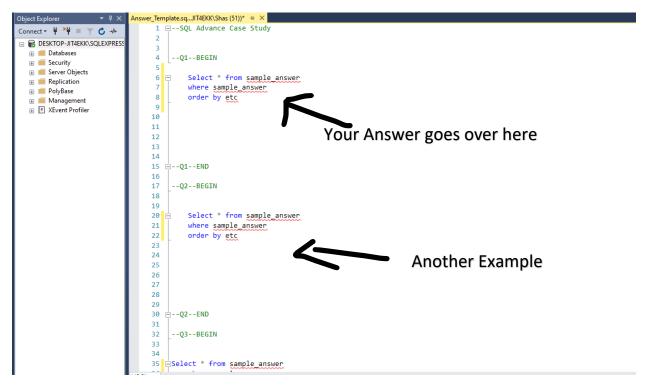






Case Study Rules (VERY IMPORTANT!):

1. The Answers should be filled in the answer_template file that has been given between the BEGIN and END marks, like given below



- 2. The BEGIN and END marks should not be removed, and the query for the question needs to be placed between the two
- 3. The DataBase must be created from the creation file given with the case study and permenant changes on the original Database is strictly prohibited
- 4. For all the questions, the output query should return only 1 table. In case multiple tables are returned then only the first table will be considered
- 5. Before the final submission, rename the answer_template.sql file with your email ID like this. EG: email@gmail.com-Advance.sql
- 6. The final file should be zipped and then uploaded as the LMS does not accept files with a .SQL extension
- 7. Aditional spacing permitted between the BEGIN and END. But make sure to not accidentally modify the BEGIN and END marks
- 8. Plagerism or copying is taken very strictly with multiple checks inplace before the file is handed down to the final evaluator. So make sure to not accidently share your answers with your peers





Questions:

Write queries to find out the following:

- 1. List all the states in which we have customers who have bought cellphones from 2005 till today.
- 2. What state in the US is buying the most 'Samsung' cell phones?
- 3. Show the number of transactions for each model per zip code per state.
- 4. Show the cheapest cellphone (Output should contain the price also)
- 5. Find out the average price for each model in the top5 manufacturers in terms of sales quantity and order by average price.
- 6. List the names of the customers and the average amount spent in 2009, where the average is higher than 500
- 7. List if there is any model that was in the top 5 in terms of quantity, simultaneously in 2008, 2009 and 2010
- 8. Show the manufacturer with the 2nd top sales in the year of 2009 and the manufacturer with the 2nd top sales in the year of 2010.
- 9. Show the manufacturers that sold cellphones in 2010 but did not in 2009.
- 10. Find top 100 customers and their average spend, average quantity by each year. Also find the percentage of change in their spend.



