

PROBLEM STATEMENT

Automobile Finance Assignment (Star Schema) : -

An automobile company wants to develop a data warehouse system to computerize its finance management. Here are the details:-

- The company has 1000 dealers (i.e. customers).
- The company has 10 profit centers.
- The revenue is accrued in local currency
- The company has 5 product groups. Each product group has several models
- The region for the sales person and customer is same as that of profit center

Business Questions to be answered : -

- 1 What is the total revenue for each profit center for each month?
- 2 How is the revenue growth for each profit center on year-on-year basis?
- 3 Which are top 10 customers by revenue?
- 4 Which are top 10 products by revenue?
- 5 Which regions are not doing well revenue wise?
- 6 Who are the 5 best sales representatives by revenue accruals for this year?

CASE STUDY - 2

PROBLEM STATEMENT

Company Payroll Assignment (Star Schema) : -

A software company wants to develop a data warehouse system to computerize its payroll management. Here are the details:-

- The company has 10000 employees on payroll out of which 9000 are permanent employees and 1000 are contract employees.
- The company has 20 divisions.
- The company offices and development centers are in 50 locations (offshore and onsite both included)
- The payroll cycle is monthly and payment is made on first of every month
- The paychecks are made in local currency (depending upon the assignment of employee)
- The salary of the employee depends upon his grade. For every grade there is a lower and higher salary bandwidth.

CASE STUDY - 2

Business Questions to be answered : -

- 1 What is the total payroll cost for each division for each pay cycle?
- 2 What is the payroll cost employee grade wise as a percentage of total payroll cost per cycle?
- 3 What is location wise payroll cost every month?
- 4 Which are the top 5 divisions that have incurred maximum payroll cost?
- 5 What is the ratio of supporting divisions payroll cost to the total payroll cost?
- 6 What is the payroll cost of temporary employees as a ratio of total payroll cost?

CASE STUDY - 1

PROBLEM STATEMENT

Telecom Sales Assignment (Star Schema) :-

A telecom company wants to develop a data warehouse system to computerize its sales management. Here are the details:-

- The company is tracking the sales of its products (made in different manufacturing plants) to different customers.
- The company is basically comprised of two broad operations :
 - Manufacturing products in its manufacturing plants
 - Sales of these products by its sales outlets to customers
- The customers of the company are either big corporate companies or retailers who buy directly over the counter.
- Each customer purchases one or more products through an order.
- There are two types of seller outlets:
 - Corporate sales office
 - Retail stores
- The products can be bought in the following two ways:
 - In the case of retail (non-corporate) customers, the products are purchased over the counter from retail outlets.
 - In the case of corporate customers, orders can be placed over the phone and goods are delivered directly from plant to the particular corporate office.

CASE STUDY - 1

Business Questions to be answered :-

- 1 What are the total cost and revenue for each model sold today, summarized by outlet, outlet type, region?
- 2 What are the total cost and revenue for each model sold today, summarized by manufacturing plant and region?
- 3 For each month how much was the ordered revenue by customer region? How much was delivered?
- 4 What are the top five models sold last month by total revenue? By quantity sold? By total cost?