Part 1

1. Identify requirements
   1. Different business processes in the organisation
      1. Product Inventory
      2. Product Sales
      3. Product Popularity
      4. Broadband services
   2. Subject Areas in the data communications
      1. Sales
      2. Inventory
      3. Popularity
      4. Finance
   3. Relation of the data to each subject area
      1. Time query (days, months, quarter, year)
      2. Highest sales of the product.
      3. Highest unit in and unit out in inventory.
      4. Total amount of the unit in and unit out.
      5. Most popular of the product.
      6. Highest supplier and branch for importing and exporting respectively.
2. The data sources
3. Product sales, product import and export, product price, customers, location.
   1. Time
   2. Category, Location
4. Product Inventory
5. Inventory
6. Dimensions required for the inventory are
   1. Inventory, Branch, Supplier, Product, Category
   2. Time
7. Details of the storage of the table
   1. Inventory: - FKs + Unit In, Unit Out, Unit Price, Total Amount of Unit in, Total Amount if Unit out
   2. Branch: - SKs + PK + Branch Name, City, Country
   3. Supplier: - SKs + PK + Supplier Name, City, Country
   4. Product: - SKs + PK + Product Name, Colour, Storage
   5. Category: - SKs + PK + Category Name
8. Snow Flake Scheme
   1. Category
9. Test the task 1.3.
   1. Extract the data to test
   2. Create a Pivot Table
   3. Create a Pivot Chart

Part 2

1. Design type of my Data Mart is Snow Flake Scheme model.
2. I choose this model because of following reason
3. Different dimensions can be linked to each other which is not possible in star schemas.
4. With this model I can slice and dice the dimensions.
5. In my model I create the link between the product dimension and category dimension which is not possible in the stat scheme model.
6. There are different tables in my data marts.
7. Inventory is represented as fact table in my model. It contains the foreign keys and the numeric attributes such as unit in, unit out, unit price, total amount of unit in and total amount of unit out.
8. Product is the other table which holds the detail information about the product which are in the inventory.
9. Category is the linked table from the product table which helps to separate the product.
10. Branch table holds the information of different branches located in the different location with names and address.
11. Supplier table contains the supplier name and the address.
12. Time table is used for keeping the track of history of product in the inventory.

Report