Sales and Delivery

Composite data of a business organization, confined to the ‘sales and delivery’ domain is given for the period of the last decade. From the given data retrieve solutions for the given scenario.

List of tables:

Cust_dimen:

Column Name	Data type	Comments
Customer_name	Varchar	Name of the customer
Province	Varchar	ID for Province
Region	Varchar	ID for Region
Customer_Segment	Varchar	Types of the customer segments
Cust_id	Varchar	Id to the customers

Market Fact:

Column Name	Data Types	Comments
Ord id	Varchar	Id for the Order
Prod id	Varchar	Id for the product
Ship id	Varchar	ID for the shipping
Cust id	Varchar	ID for the customer
Sales	Float	The sales price for the product
Discount	Float	Discount for the product
Order Quantity	Float	Number of products have been ordered
Profit	Float	Profit that has been gained from the product
Shipping cost	Float	Shipping cost for the product
Product Base Margin	Float	Base margin value for the product

Orders_Dimen:

Column Name	Data type	Description
Order id	integer	Id for the order
Order Date	date	The order date for that order has been ordered
Order Priority	varchar	Priority for the orders
Ord id	varchar	Order id as a varchar

Prod_Dimen:

Column Name	Data type	Description
Product_Category	Varchar	Type of the product
Product_Sub_category	Varchar	Name of the sub-category
Prod_id	Varchar	Id of Product

Shipping Dimen:

Column Name	Data Type	Description
Order_ID		Id for the orders
Ship_Mode		Type of the shipping
Ship_Date		Shipping date
Ship_ID	Varchar	ID for the shipping

Queries :

Question 1: Find the top 3 customers who have the maximum number of orders

Question 2: Create a new column DaysTakenForDelivery that contains the date difference between Order_Date and Ship_Date.

Question 3: Find the customer whose order took the maximum time to get delivered.

Question 4: Retrieve total sales made by each product from the data (use Windows function)

Question 5: Retrieve the total profit made from each product from the data (use windows function)

Question 6: Count the total number of unique customers in January and how many of them came back every month over the entire year in 2011