Data Querying and Manipulation using SQL-Day 4

**Aggregation, Subquery, View, Analytic Functions**

Write appropriate SQL queries for following problems.

1. Show product class description, product id, total quantity and total amount for all shipped orders that have their total amount > 10000. Show <<Subtotal>> at each product class level and << Grand total>> at the end.
2. Show product id, product description, its total quantity sold, and total quantity available and % of total quantity sold over available quantity where this % is less than 50%.
3. Create a view to store the details of customers outside India who have made the payments using credit cards, for shipped orders whose total amount is more than 1000. (Columns: Customer id, Customer full name, Order id, City, Country, Total amount). Sort the output by customer id first and then by order id.
4. Create a view to store the details of the customers outside India who have not purchased any product during last year but purchased during its previous year. (Columns: Customer id, Phone number in 999-999-9999 format, Email, City, Country).
5. Company wants to ship some of its products from a warehouse in one city to another. For this, it uses large containers of size 600 mm x 450 mm x 300 mm. Write a query to show how many such containers will be full if all available quantities of a given product are packed into it.
6. Given a shipper name, write a query to return the total quantity of products they have shipped outside India so far.
7. Create a view to show the details of the customers in India who have not purchased any product during last year but purchased during its previous year. (Columns: Customer id, Phone number in 999-999-9999 format, Email, City). (Use FORMAT function)
8. Who is the earliest customer (creation date-wise) who haven't purchased any product?
9. Write a query which reports month-year wise summary of order details (no. of orders, count of each product ordered, subtotal of product price. Rollup the output at each subgroup level).