**TECHMART SALES ANALYSIS**

**1.** **Create a database named sqlbasics**

create database sqlbasics;

**2.** **Develop tables for products and sales with specific fields**

create table products(

product\_id int primary key,

product\_name varchar(50),

category varchar(50));

**--insert values in table**

insert into sqlbasics.products values

(1,"laptop","electronics"),

(2,"smartphones","electronics"),

(3,"coffee maker","appliances"),

(4,"running shoes","apparel");

**--For sale table**

create table sale

(sale\_id int primary key,

product\_id int,

sale\_date date,

quantity\_sold int);

**---Insert value in sale table**

**insert into sqlbasics.sale values**

(1,1,"2023-01-15",10),

(2,2,"2023-02-20",15),

(3,3,"2023-03-10",5),

(4,1,"2023-01-20",8),

(5,4,"2023-04-05",12);

**3.Calculate the total sales for each product**

select distinct p.product\_name,

sum(quantity\_sold) over (partition by product\_name) as product

from sqlbasics.products p

inner join sqlbasics.sale s on p.product\_id = s.product\_id;

**4. Analyze the monthly sales trend over the past year**

select distinct monthname(sale\_date) as month,

sum(quantity\_sold) over(partition by month(sale\_date)) as sales

from sqlbasics.sale;

**5. Identify the top N products with the highest total sales**

**---identify top 1st product with highest sales**

with cte as

(

select p.product\_name as product,s.quantity\_sold as quantity,

sum(quantity\_sold) over (partition by product\_name ) as sale

from sqlbasics.products p

inner join sqlbasics.sale s on p.product\_id = s.product\_id)

select distinct product,sale,

rank() over ( order by sale desc)as rn

from cte

limit 1

;

**--identify top 5 product with highest sales**

with cte as

(

select p.product\_name as product,s.quantity\_sold as quantity,

sum(quantity\_sold) over (partition by product\_name ) as sale

from sqlbasics.products p

inner join sqlbasics.sale s on p.product\_id = s.product\_id)

select distinct product,sale,

rank() over ( order by sale desc)as rn

from cte

limit 5

;