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--We are working with a data warehouse that allows us to observe the sales of products of
a company.
-- The table schema is as follows:
--CUSTOMER (idcli, city, region, country)
Create schema Checkpoint3 ;
CREATE TABLE Checkpoint3.Customer (
       idcli INT IDENTITY (1, 1) PRIMARY KEY
       , city varchar (255)
       , region varchar (255)
       , country varchar (255)
);
--PRODUCT (product_id, name, category, price_of_revs, price_sales, supplier)
CREATE TABLE Checkpoint3.Product (
       product_id INT IDENTITY (1, 1) PRIMARY KEY
       , name VARCHAR (255)
       , category VARCHAR (255)
       , supplier VARCHAR (255)
       , price_of_revs Int
       , price_sales int
);
--DATE (idDate, month, nameMonth, quarter, year)
CREATE TABLE Checkpoint3.Date (
       idDate INT IDENTITY (1, 1) PRIMARY KEY
       , month VARCHAR (2)
       , nameMonth VARCHAR (25)
       , quarter VARCHAR (25)
       , year varchar (4)
);
--SALES(product id, date id, cli id, delivery_date, quantity, amount)
CREATE TABLE Checkpoint3. Sales (
       productid INT
      , dateid Int
       , cliid Int Identity (1,1)
       , delivery_date DATE
       , quantity Int
       , amount int ,
FOREIGN KEY (cliid)
    REFERENCES Checkpoint3.Customer (idcli) ,
FOREIGN KEY (dateid)
       REFERENCES Checkpoint3.Date (idDate) ,
Foreign Key (productid)
       References checkpoint3.Product (product id)
);
--1. Write a query to calculate the amount of sales by country.
-- final output: country, amount of sales
Select country
, SUM(s.amount) As amountofsales
From Checkpoint3.Sales as s
Left join Checkpoint3.customer c on c.idcli = s.cliid
Group by country
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--2. Write a query that calculates the amount of sales per month of each year, then per
year, and then in total.
Select nameMonth
, year
, sum (s.amount) as amountofsales
From Checkpoint3. Sales as s
Left join Checkpoint3.Date d on d.idDate = s.dateid
Group by ROLLUP (year, nameMonth)
--3. Write a query that allows you to calculate the quantity of the product sold "22 inch
screen" by country, then by year, then by year to each country, then in totality.
Select country
, year
, sum (s.quantity) as quantityamount
From Checkpoint3.Sales as s
left join Checkpoint3.Date d on d.idDate = s.dateid
left join Checkpoint3.Product p on p.product_id = s.productid
left join Checkpoint3.Customer c on c.idcli = s.cliid
Where p.name = '22 inch screen'
Group by CUBE (country, year)
--4. Write a query that calculates the amount of sales by country, then by year, then by
product.
Select country
, year
, productid
, sum (s.amount) as amountofsales
From Checkpoint3.Sales as s
left join Checkpoint3.Date d on d.idDate = s.dateid
left join Checkpoint3.Product p on p.product_id = s.productid
left join Checkpoint3.Customer c on c.idcli = s.cliid
Group by country, year, productid
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