Home Work 4 Data Ware House

Checking the count of Tables:



Query 1

select a.CustomerName, a.Gender, d.SalesPersonName, d.City

from dim_customer as a join fact_productsales as b

on a.CustomerID=b.CustomerID join dim_date as c on

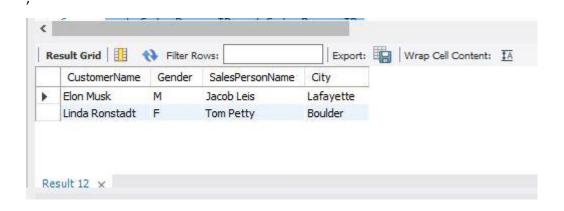
b.SalesDateKey=c.DateKey join dim_salesperson as d

on b.SalesPersonID = d.SalesPersonID

where c.YEAR = "2015" and c.MONTH = "9"

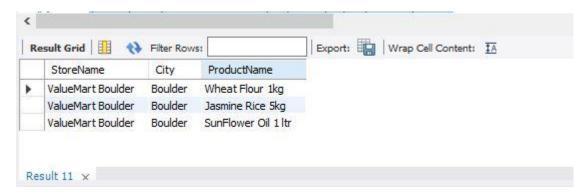
and b.SalesPrice > 20 and b.Quantity > 8

group by b.ProductID



Query 2

select a.StoreName , a.City , c.ProductName from dim_store as a join fact_productsales as b on a.StoreID = b.StoreID join dim_product as c on b.ProductID = c.ProductKey join dim_date as d on b.SalesDateKey = d.DateKey where d.MONTH = "3" and d.YEAR= "2017" and a.City="Boulder" and b.ProductCost < 50



Query 3:

 $select\ a. Sales Person ID\ ,\ a. Sales Person Name\ ,\ (sum (b. Product Cost)\ *\ sum (c. Product Sales Price))\ as\ total_Revenue$

from dim_salesperson as a join fact_productsales as b on

a.SalesPersonID = b.SalesPersonID join dim_product as c on

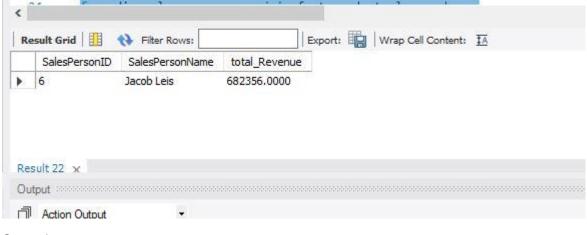
b.ProductID = c.ProductKey join dim_date as d on

b.SalesDateKey = d.DateKey

where d.YEAR = "2017"

order by total_Revenue desc

limit 2



Query 4:

select a.CustomerName , sum(b.SalesPrice * b.Quantity) as Lowest_Total_Revenue

from dim_customer as a join fact_productsales as b on

a.CustomerID = b.CustomerID join dim_date as c on

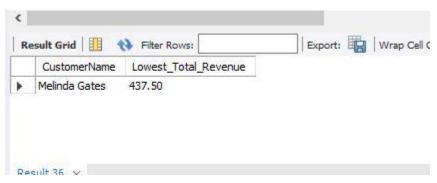
b.SalesDateKey = c.DateKey

where c.Year = "2017"

group by a.CustomerName

order by Lowest_Total_Revenue asc

limit 1



Query 5:

select a.StoreName , sum(b.SalesPrice) as total_sales_Price from dim_store as a join fact_productsales as b on a.StoreID = b.StoreID join dim_date as c on b.SalesDateKey = c.DateKey where c.YEAR >= "2010" and c.YEAR <= "2017" group by a.StoreName

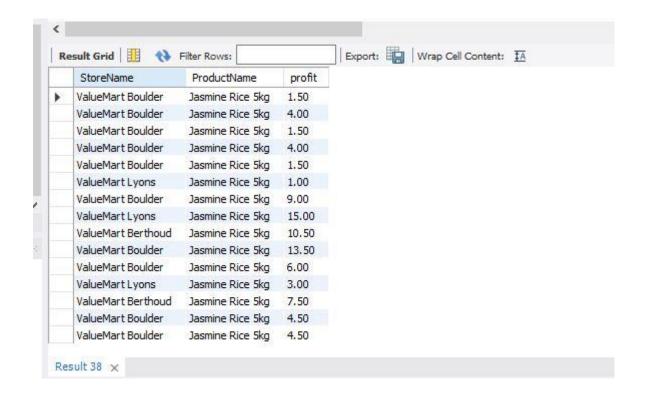
;

order by a.StoreName asc



Query 6:

select a.StoreName, c.ProductName , (b.SalesPrice * b.Quantity) - (b.ProductCost * b.Quantity) as profit from dim_store as a join fact_productsales as b on a.StoreID = b.StoreID join dim_product as c on c.ProductKey = b.ProductID join dim_date as d on b.SalesDateKey = d.DateKey where c.ProductName="Jasmine Rice 5kg" and d.YEAR="2010"



Query 7:

select a.StoreName,c.QUARTER,c.YEAR, (b.SalesPrice * b.Quantity) as Total_Revenue

from dim_store as a join fact_productsales as b on

a.StoreID = b.StoreID join dim_date as c on

c.DateKey = b.SalesDateKey

where c.YEAR="2016" and a.StoreName="ValueMart Boulder"

group by c.QUARTER

order by c.QUARTER

Result Grid Export: Wrap Cell Content: IA Filter Rows: StoreName QUARTER YEAR Total_Revenue ValueMart Boulder 2016 39.00 1 ValueMart Boulder 2016 192.00 ValueMart Boulder 2016 24.00 ValueMart Boulder 2016 19.50 Result 9 Result 10 ×

Query 8:

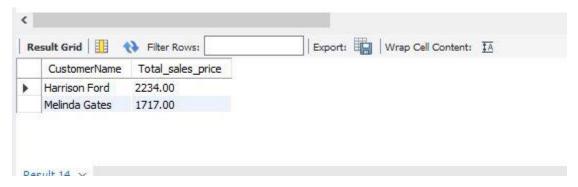
select a.CustomerName, sum(b.SalesPrice) as Total_sales_price

from dim_customer as a join fact_productsales as b on

a.CustomerID = b.CustomerID

where a.CustomerName="Melinda Gates" or a.CustomerName="Harrison Ford" group by a.CustomerName

;



Query 9:

select a.StoreName,b.SalesPrice,d.CustomerName

from dim_store as a join fact_productsales as b on

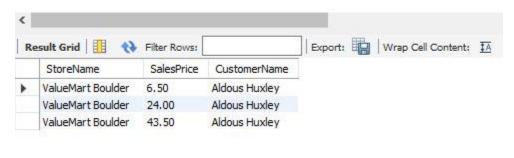
a.StoreID=b.StoreID join dim_date as c on

b.SalesDateKey = c.DateKey join dim_customer as d on

b.customerId = d.customerId

where c.DAYOFMONTH="12" and c.MONTH="3" and c.YEAR="2017"

;



Result 16 ×

Query 10:

select a.SalesPersonName,sum(b.SalesPrice*b.Quantity) as Highest_Revenue

from dim_salesperson as a join fact_productsales as b on

a.SalesPersonID=b.SalesPersonID

group by a.SalesPersonName

order by Highest_Revenue desc

limit 1

;





Query 11:

select a.ProductName, (b.SalesPrice * b.Quantity) - (b.ProductCost * b.Quantity) as profit

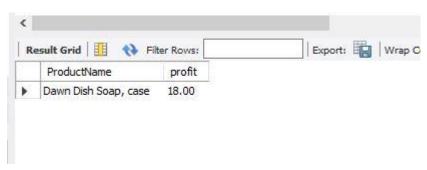
from dim_product as a join fact_productsales as b on

a.ProductKey = b.ProductID

group by ProductName

order by profit desc

limit 1



Query 12:

select a.YEAR,a.MONTH, sum(b.SalesPrice * b.Quantity) as Revenue

from dim_date as a join fact_productsales as b on

a.DateKey = b.SalesDateKey

where (a.MONTH='1' or a.MONTH='2' or a.MONTH='3') and a.YEAR="2017" group by a.MONTH

Query 13:

Result 25 ×

select a.ProductName , round(AVG(b.ProductCost),2) as Average_Product_cost , round(AVG(b.SalesPrice),2) as Average_sales_price

from dim_product as a join fact_productsales as b on

a.ProductKey = b.ProductID join dim_date as c on

b.SalesDateKey = c.DateKey

where c.YEAR = "2017"

group by a.ProductName



Query 14:

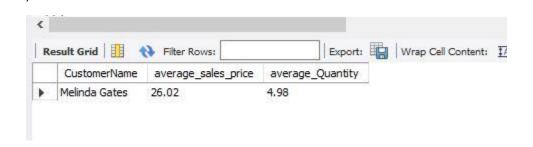
select a.CustomerName, round(avg(b.SalesPrice),2) as average_sales_price , round(avg(b.Quantity),2) as average_Quantity

from dim_customer as a join fact_productsales as b on

a.CustomerID = b.CustomerID

where a.CustomerName="Melinda Gates"

group by a.CustomerName



Query 15:

select a.City , Max(b.SalesPrice) as Maximum_sales_price , Min(b.SalesPrice) as Minimum_sales_price from dim_store as a join fact_productsales as b on

a.StoreID = b.StoreID

where a.City = "Boulder"

group by a.City

