HW_4_DataWarehouse

1. SELECT SalesPersonName,

    SUM(fact_productsales.SalesPrice*fact_productsales.Quantity)

        as 'Total Revenue'

    from dim_salesperson

        JOIN fact_productsales

        on dim_salesperson.SalesPersonID=fact_productsales.SalesPersonID

        Join dim_date

        on fact_productsales.SalesDateKey=dim_date.DateKey

        WHERE dim_date.Year=2012

        GROUP BY SalesPersonName

        ORDER   BY

SUM(fact_productsales.SalesPrice*fact_productsales.Quantity) DESC

        LIMIT 1;

SalesPersonName	Total Revenue	
▶ Julian Brand	2885.50	

2. SELECT CustomerName,

        SUM(fact_productsales.SalesPrice*fact_productsales.Quantity)

            as 'Total Revenue'

        from dim_customer

            Join fact_productsales

            on fact_productsales.CustomerID=dim_customer.CustomerID

            Join dim_date

            on fact_productsales.SalesDateKey=dim_date.DateKey

            WHERE dim_date.Year=2013

            GROUP BY CustomerName

            ORDER   BY

SUM(fact_productsales.SalesPrice*fact_productsales.Quantity) DESC

            LIMIT 3;

CustomerName	Total Revenue	
▶ Harrison Ford	1423.00	
Aldous Huxley	852.00	
Melinda Gates	361.00	

3. SELECT YEAR,

   fact_productsales.StoreID,SUM(SalesPrice)

     as 'Total Sales Price'

   from Dim_Date

     JOIN fact_productsales

     on fact_productsales.SalesDateKey=dim_date.DateKey

     where Dim_Date.YEAR BETWEEN 2016 and 2017

     GROUP BY Dim_Date.YEAR,fact_productsales.StoreID;

YEAR	StoreID	Total Sales Price
▶ 2016	1	1371.50
2016	2	370.00
2016	3	296.00
2017	3	148.00
2017	1	622.50
2017	2	74.00

4. SELECT ProductName,

   SUM((ProductSalesPrice‐ProductActualCost)*fact_productsales.Quantity)

     as 'Profit'

     from dim_product

     JOIN fact_productsales

     on dim_product.ProductKey=fact_productsales.ProductID

     JOIN dim_date

     on fact_productsales.SalesDateKey=dim_date.DateKey

     where dim_date.Year=2015

     GROUP BY dim_product.ProductName

     ORDER   BY   SUM((ProductSalesPrice‐

ProductActualCost)*fact_productsales.Quantity) DESC

LIMIT 3;

ProductName	Profit
Jasmine Rice 5kg	102.00
SunFlower Oil 1 ltr	81.00
Tide Laundry Detergent 1kg case	68.00

5. SELECT QUARTER,

SUM(fact_productsales.SalesPrice*fact_productsales.Quantity)

as 'revenue'

from dim_date

JOIN fact_productsales

on fact_productsales.SalesDateKey=dim_date.DateKey

Join dim_store

on dim_store.StoreID=fact_productsales.StoreID

WHERE   dim_store.StoreName='ValueMart   Boulder'   and
dim_date.Year=2016

GROUP BY dim_date.QUARTER

Order   BY
SUM(fact_productsales.SalesPrice*fact_productsales.Quantity) DESC

LIMIT 1;

QUARTER	revenue	
▸ 3	2259.50	

6. SELECT CustomerName, SUM(SalesPrice) as 'Total Sales Price'

FROM Fact_ProductSales

JOIN Dim_Customer

ON Fact_ProductSales.CustomerID = Dim_Customer.CustomerID

WHERE Dim_Customer.CustomerName = "Melinda Gates";

CustomerName	Total Sales Price
Melinda Gates	1717.00

7. SELECT StoreName,

   SUM(fact_productsales.SalesPrice*fact_productsales.Quantity)

   as 'Total Revenue'

   FROM dim_store

   JOIN fact_productsales

   on dim_store.StoreID=fact_productsales.StoreID

   JOIN dim_date

   on fact_productsales.SalesDateKey=dim_date.DateKey

   where dim_date.YEAR=2013 and dim_date.MONTH ='3'

   GROUP BY StoreName;

StoreName	Total Revenue
ValueMart Boulder	1423.00
ValueMart Lyons	361.00
ValueMart Berthoud	342.00

8. SELECT SalesPersonName,

   SUM(fact_productsales.SalesPrice*fact_productsales.Quantity)

   as 'Total Revenue'

   FROM dim_salesperson

   JOIN fact_productsales

   ON dim_salesperson.SalesPersonID=fact_productsales.SalesPersonID

   GROUP BY dim_salesperson.SalesPersonName

   ORDER   BY

   SUM(fact_productsales.SalesPrice*fact_productsales.Quantity) DESC

   LIMIT 1;

SalesPersonName	Total Revenue
▶ Julian Brand	21164.50

9. SELECT ProductName,
   SUM((Fact_ProductSales.salesprice*Fact_ProductSales.quantity)-
   (Fact_ProductSales.productcost*Fact_ProductSales.quantity))
   as 'Profit'
   FROM dim_product
   Join Fact_ProductSales
   on dim_product.ProductKey=fact_productsales.ProductID
   GROUP BY ProductName
   ORDER   BY
   SUM((Fact_ProductSales.salesprice*Fact_ProductSales.quantity)-
   (Fact_ProductSales.productcost*Fact_ProductSales.quantity)) DESC
   LIMIT 1;

ProductName	Profit	
▶ SunFlower Oil 1 ltr	686.50	

10. SELECT YEAR,MONTHNAME,
    SUM(fact_productsales.SalesPrice*fact_productsales.Quantity)
    as 'Total Revenue'
    FROM dim_date
    JOIN fact_productsales
    on dim_date.DateKey=fact_productsales.SalesDateKey
    WHERE   (dim_date.MONTH='1'   or   dim_date.MONTH='2'   or
    dim_date.MONTH='3')
    and dim_date.YEAR=2017

GROUP BY YEAR,MONTHNAME;

YEAR	MONTHNAME	Total Revenue
2017	January	1417.50
2017	February	1595.50
2017	March	1954.00