

Homework 5

Muntaha Pasha

```
use sales_dw;
```

```
/*1*/
```

Q: Which salesperson produced the most total revenue for this organization during 2012?

A: Julian Brand.

```
SELECT fact_productsales.SalesPersonID, dim_salesperson.SalesPersonName,
sum(fact_productsales.SalesPrice * fact_productsales.Quantity) as
TotalRevenue2012 from Fact_ProductSales JOIN Dim_SalesPerson ON
dim_salesperson.SalesPersonID = fact_productsales.SalesPersonID JOIN Dim_date
ON fact_productsales.SalesDateKey = dim_date.DateKey where
dim_date.year='2012' GROUP BY fact_productsales.SalesPersonID ORDER BY
TotalRevenue2012 DESC LIMIT 1;
```

	SalesPersonID	SalesPersonName	TotalRevenue2012
►	4	Julian Brand	2885.50

```
/*2*/
```

Q: Which customer's revenue increased the most from 2012 to 2013?

A: Aldous Huxley

```
SELECT dc.CustomerID, dc.CustomerName, SUM(FP.SalesPrice * FP.Quantity) as
TotalRevenue FROM Dim_Customer dc JOIN Fact_ProductSales FP ON FP.CustomerID
= dc.CustomerID JOIN Dim_date dd ON FP.SalesDateKey = dd.DateKey WHERE
dd.YEAR BETWEEN 2012 AND 2013 GROUP BY FP.CustomerID ORDER BY TotalRevenue
DESC LIMIT 1;
```

	CustomerID	CustomerName	TotalRevenue
►	4	Aldous Huxley	5822.00

```
/*3*/
```

Q: Rank all stores by their total revenue for each year represented in the data warehouse.

A: See Table Below

```
SELECT ds.StoreID, ds.StoreName, dd.YEAR, SUM(FP.SalesPrice * FP.Quantity) AS
TotalRevenue FROM Dim_Store ds JOIN Fact_ProductSales FP ON ds.StoreID =
FP.StoreID JOIN Dim_Date dd ON FP.SalesDatekey = dd.DateKey GROUP BY
FP.StoreID, dd.YEAR ORDER BY dd.YEAR ASC, TotalRevenue DESC;
```

	StoreID	StoreName	YEAR	TotalRevenue
►	1	ValueMart Boulder	2010	5975.50
	2	ValueMart Lyons	2010	1231.00
	3	ValueMart Berthoud	2010	1123.00
	1	ValueMart Boulder	2011	7336.00
	2	ValueMart Lyons	2011	2168.00
	3	ValueMart Berthoud	2011	1737.50
	1	ValueMart Boulder	2012	7286.00
	2	ValueMart Lyons	2012	1898.00
	3	ValueMart Berthoud	2012	1565.50
	1	ValueMart Boulder	2013	2275.00
	2	ValueMart Lyons	2013	361.00
	3	ValueMart Berthoud	2013	342.00
	1	ValueMart Boulder	2015	4608.00
	3	ValueMart Berthoud	2015	1112.50
	2	ValueMart Lyons	2015	1062.00
	1	ValueMart Boulder	2016	6519.00
	2	ValueMart Lyons	2016	2339.00
	3	ValueMart Berthoud	2016	1711.00
	1	ValueMart Boulder	2017	3746.00
	3	ValueMart Berthoud	2017	783.50
	2	ValueMart Lyons	2017	437.50

/*4*/

Q: Which product yielded the highest profit in 2015?

A: Jasmine Rice

```
SELECT dp.productkey, dp.productname, SUM((dp.productsalesprice-
dp.productactualcost)*fp.quantity) as Profit from dim_product dp join
Fact_ProductSales FP ON dp.productkey = FP.productID JOIN Dim_Date dd ON
FP.SalesDatekey = dd.DateKey where dd.YEAR='2015' group by fp.productID order
by Profit desc limit 1;
```

	productkey	productname	Profit
►	2	Jasmine Rice 5kg	102.00

/*5*/

Q: In which calendar quarter in 2016 did the Boulder store show the highest revenue?

A: Quarter 3

```
SELECT ds.StoreID, ds.StoreName, ds.City, sum(fp.SalesPrice* Quantity) as
TotalRevenue, dd.QUARTER FROM Dim_Store ds JOIN Fact_ProductSales fp ON
ds.StoreID = fp.StoreID JOIN Dim_Date dd ON dd.DateKey = fp.SalesDateKey
WHERE ds.City = 'Boulder' AND dd.Year = '2016' GROUP BY dd.QUARTER,
fp.StoreID ORDER BY TotalRevenue DESC LIMIT 1;
```

	StoreID	StoreName	City	TotalRevenue	QUARTER
►	1	ValueMart Boulder	Boulder	2259.50	3