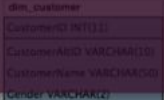


## Jason Lubrano - CSCI 3287 - Homework 3

1. Which customer has produced the most total revenue for this organization? (Total Revenue = SalesPrice \* Quantity)

```
ERROR 1054 (42S22): Unknown column 'fp.SalePrice' in 'field list'
mysql> SELECT dc.CustomerID, dc.CustomerName, sum(fp.SalePrice * fp.Quantity) as amt FROM Fact_ProductSales fp JOIN Dim_
Customer dc ON dc.CustomerID = fp.CustomerID GROUP BY fp.CustomerID ORDER BY amt DESC LIMIT 1;
+-----+-----+-----+
| CustomerID | CustomerName | amt |
+-----+-----+-----+
| 4 | Aldous Huxley | 22846.50 |
+-----+-----+-----+
1 row in set (0.00 sec)
```

mysql> Which customer has produced the most total revenue for this organization? (Total Revenue = SalesPrice \* Quantity)



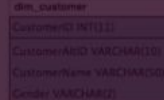
```
dim_customer
+-----+
| CustomerID INT(11) |
+-----+
| CustomerASID VARCHAR(10) |
+-----+
| CustomerName VARCHAR(50) |
+-----+
| Gender VARCHAR(2) |
+-----+
```

2. Which salesperson has produced the most total revenue for this organization? (Total Revenue = SalesPrice \* Quantity)

```
mysql> SELECT fp.SalesPersonID, ds.SalesPersonName, SUM(fp.SalePrice * fp.Quantity) as TotalRev FROM Fact_ProductSales fp JOIN Dim_SalesPerson ds on ds.SalesPersonID = fp.SalesPersonID GROUP BY fp.SalesPersonID ORDER BY TotalRev DESC LIMIT 1;
+-----+-----+-----+
| SalesPersonID | SalesPersonName | TotalRev |
+-----+-----+-----+
| 4 | Julian Brand | 21164.50 |
+-----+-----+-----+
1 row in set (0.01 sec)
```

mysql>

1. Which customer has produced the most total revenue for this organization?



```
dim_customer
+-----+
| CustomerID INT(11) |
+-----+
| CustomerASID VARCHAR(10) |
+-----+
| CustomerName VARCHAR(50) |
+-----+
| Gender VARCHAR(2) |
+-----+
```

3. What is the total revenue by store for each year represented in the data warehouse?

```
mysql> SELECT fp.StoreID, ds.StoreName, dd.YEAR, SUM(fp.SalesPrice * fp.Quantity) as amt FROM Fact ProductSales fp JOIN Dim Store ds ON fp.StoreID = ds.StoreID JOIN Dim Date dd on fp.SalesDateKey = dd.DateKey GROUP BY fp.StoreID, dd.YEAR ORDER BY dd.YEAR ASC, amt DESC;
```

StoreID	StoreName	YEAR	amt
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

21 rows in set (0.00 sec)

4. Which store had the highest sales dollar volume in September, 2011?

```
mysql> SELECT fp.StoreID, ds.StoreName, SUM(fp.SalesPrice * fp.Quantity) AS amt FROM Fact ProductSales fp JOIN Dim Store ds ON fp.StoreID = ds.StoreID JOIN Dim Date dd on fp.SalesDateKey = dd.DateKey WHERE dd.MONTHNAME = 'September' AND dd.YEAR = '2011' GROUP BY fp.StoreID ORDER BY amt DESC;
```

StoreID	StoreName	amt
1	ValueMart Boulder	1439.00
3	ValueMart Berthoud	440.00
2	ValueMart Lyons	255.00

3 rows in set (0.01 sec)

5. Describe the trend in total revenue for the Boulder store for each quarter in 2016.

```
mysql> SELECT fp.StoreID, ds.StoreName, ds.City, SUM(fp.SalesPrice * fp.Quantity) AS TotalRev, dd.QUARTER FROM Fact ProductSales fp JOIN Dim Store ds ON fp.StoreID = ds.StoreID JOIN Dim Date dd ON fp.SalesDateKey = dd.DateKey WHERE ds.City = 'Boulder' GROUP BY fp.StoreID, dd.QUARTER;
```

StoreID	StoreName	City	TotalRev	QUARTER
1	ValueMart Boulder	Boulder	12228.50	1
1	ValueMart Boulder	Boulder	7858.50	2
1	ValueMart Boulder	Boulder	8856.50	3
1	ValueMart Boulder	Boulder	8802.00	4

4 rows in set (0.00 sec)