1.)

```
/*Query #1 DONE*/
SELECT SalesPersonID FROM Fact_ProductSales fp
JOIN Dim_Date AS dd ON fp.SalesdateKey = dd.DateKey
WHERE fp.SalesPrice*fp.Quantity = (SELECT MAX(SalesPrice*Quantity) FROM
Fact_ProductSales AS fp JOIN Dim_Date AS dd ON fp.SalesdateKey = dd.DateKey AND
dd.YEAR = "2012")
AND dd.YEAR = "2012";
```

SalesPersonID
'5'
'4'

SalesPerson IDs for most revenue in 2012.

2.)

```
/*Query #2*/
/*Finds 2012 first*/
SELECT c.CustomerID AS Customer, SUM(fp.SalesPrice*fp.Quantity) AS Revenue FROM
Dim_Customer c
JOIN Fact_ProductSales AS fp on fp.CustomerID = c.CustomerID
JOIN Dim_Date AS dd ON fp.SalesdateKey = dd.DateKey
WHERE dd.YEAR = "2012"
GROUP BY c.CustomerID;
/*Finds 2013 next*/
SELECT c.CustomerID AS Customer, SUM(fp.SalesPrice*fp.Quantity) AS Revenue FROM
Dim_Customer c
JOIN Fact_ProductSales AS fp on fp.CustomerID = c.CustomerID
JOIN Dim_Date AS dd ON fp.SalesdateKey = dd.DateKey
WHERE dd.YEAR = "2013"
GROUP BY c.CustomerID;
```

2012
Customer, Revenue
'1', '1162.50'
'2', '1898.00'

'3', '1565.50'
'4', '4970.00'
'5', '1153.50'

2013
Customer, Revenue
'1', '1423.00'
'2', '361.00'
'3', '342.00'
'4', '852.00'

Customer 1 had the highest revenue increase from 2012 to 2013.

3.)

```
/*Query #3 DONE*/
SELECT fp.StoreID, SUM(fp.SalesPrice*fp.Quantity) AS StoreRevenue
FROM Fact_ProductSales fp
JOIN Dim_Date AS dd ON fp.SalesDateKey = dd.DateKey WHERE dd.YEAR = "2010"
AND dd.YEAR = "2010"
GROUP BY fp.StoreID
ORDER BY StoreRevenue DESC;

SELECT fp.StoreID, SUM(fp.SalesPrice*fp.Quantity) AS StoreRevenue
FROM Fact_ProductSales fp
JOIN Dim_Date AS dd ON fp.SalesDateKey = dd.DateKey WHERE dd.YEAR = "2011"
AND dd.YEAR = "2011"
GROUP BY fp.StoreID
ORDER BY StoreRevenue DESC;

SELECT fp.StoreID, SUM(fp.SalesPrice*fp.Quantity) AS StoreRevenue
FROM Fact_ProductSales fp
JOIN Dim_Date AS dd ON fp.SalesDateKey = dd.DateKey WHERE dd.YEAR = "2012"
AND dd.YEAR = "2012"
GROUP BY fp.StoreID
ORDER BY StoreRevenue DESC;

SELECT fp.StoreID, SUM(fp.SalesPrice*fp.Quantity) AS StoreRevenue
```

```
FROM Fact_ProductSales fp
JOIN Dim_Date AS dd ON fp.SalesDateKey = dd.DateKey WHERE dd.YEAR = "2013"
AND dd.YEAR = "2013"
GROUP BY fp.StoreID
ORDER BY StoreRevenue DESC;
```

Store Rankings are as follows:

2010
StoreID, StoreRevenue
'1', '5975.50'
'2', '1231.00'
'3', '1123.00'

2011
StoreID, StoreRevenue
'1', '7336.00'
'2', '2168.00'
'3', '1737.50'

2012
StoreID, StoreRevenue
'1', '7286.00'
'2', '1898.00'
'3', '1565.50'

2013
StoreID, StoreRevenue
'1','2275.00'
'2','361.00'
'3','342.00'

4.)

```
/*Query #4: Here we order the total profit from each product and then select the first entry*/
SELECT ProductID, SUM((SalesPrice-ProductCost)*Quantity) AS Profit
FROM Fact_ProductSales AS fp
JOIN Dim_Date AS dd
ON fp.SalesDateKey = dd.DateKey
```

```
WHERE YEAR = "2015"
GROUP BY ProductID
ORDER BY Profit DESC
LIMIT 1;
```

```
ProductID, Profit
'2', '102.00'
```

The product that has ID "2" returned the highest profit in the year 2015.

5.)

```
/*Query #5*/
SELECT SUM(SalesPrice*Quantity) AS Revenue, QUARTER
FROM fact_productsales AS f
JOIN Dim_Date AS d
ON f.SalesDateKey = d.DateKey WHERE
YEAR = 2016
AND StoreID = 1
GROUP BY QUARTER
ORDER BY Revenue DESC
limit 1;
```

```
Revenue, QUARTER
'2259.50', '3'
```

The Boulder store(ID = 1) had the highest revenue in the third quarter of 2016.