	Car Retail Store Analysis			
S. no	Questions		Query	

FROM (SELECT month\_name, productline, profit, Rank() OVER ( partition BY month\_name ORDER BY profit DESC) AS Ranks **FROM** (SELECT productline, Monthname (o.orderdate) AS q 1 ) Select the "productline" which is not in the Month\_Name top 3 lists in the month of November Sum(( od.priceeach-p.buyprice) \* q 2 ) Submit the 2nd highest profit amount for od.quantityordered) the month of October. AS profit **FROM** orderdetails od JOIN orders o ON od.ordernumber = o.ordernumber JOIN products p ON p.productcode = o.productcode GROUP BY month\_name, productline) a) b WHERE ranks <= 3

SELECT \*

```
SELECT year_name,
                                                month name,
                                                 profit,
                                                 ( ( profit / Lag (profit, 1, NULL)
                                                         OVER(
                                                          partition BY year_name) )-1) ) * 100 AS
                                             MoM Growth
                                             FROM (SELECT Year(o.orderdate)
                                             AS
                                                     Year Name,
                                                     Monthname (o.orderdate)
Q1) Find the Month on Month growth in profit | AS
for each year.
                                                     Month_Name,
Q2) What is the MoM for Feb 2005?
                                                     Month(o.orderdate)
Q3) For the year 2004, select which month
                                             AS
shows negative MoM growth?
                                                     Month_Num,
                                                     Sum(( od.priceeach-p.buyprice ) * od.quantityordered)
                                             AS profit
                                                  FROM
                                                     orderdetails od
                                                     JOIN orders o
                                                      ON od.ordernumber = o.ordernumber
                                                     JOIN products p
                                                      ON p.productcode = od.productcode
                                                 GROUP BY month_name,
                                                       year_name) a
```

SELECT customernumber, contactfirstname, contactlastname, Sum(order value >= avg order value) order above avg, Sum(order value < avg order value) order below avg FROM (SELECT c.customernumber, c.contactfirstname, c. contactlastname, o. ordernumber, od. quantityordered, Q1) What is the Average Order Value? od.priceeach, Q2) number of orders above and below AOV ( priceeach \* quantityordered AS order\_value, Average Order Value) for customer number Round (Avg (priceeach \* quantityordered) 205. OVER(), 2) avg\_order\_value FROM orderdetails od IOIN orders o ON od.ordernumber = o.ordernumber JOIN customers c ON c.customernumber = o.customernumber) a GROUP BY customernumber, contactfirstname, contactlastname

Select the list of productCodes that will be getting out of Stock (i.e "are\_we\_going\_to\_fulfill\_next\_order" value is No)

SELECT orderdate, productcode, ordernumber. quantityinstock AS initial\_qnty in stock quantityordered, product sold so far, quantityinstock - product sold so far AS updatedStock IF(quantityinstock - product sold so far -Lead (quantityordered, 1, 0) over (PARTITION BY productcode ORDER BY orderdate) > 0, "yes", "no") AS are\_we\_going\_to\_fulfill\_next\_order FROM (SELECT o.orderdate, o.ordernumber, p.productcode, od.quantityordered, od.priceeach, p.quantityinstock, SUM(od.quantityordered) over ( PARTITION BY p.productcode ORDER BY o.orderdate) AS product sold so far FROM orderdetails od join products p ON od.productcode = p.producteode join orders o ON od.ordernumber = o.ordernumber) a