Q1.

SELECT

JF.LOCATION\_ID,

LD.LOCATION\_NAME,

JF.SALES\_CLASS\_ID,

SCD.SALES\_CLASS\_DESC,

TD.TIME\_YEAR CONTRACT\_YEAR,

TD.TIME\_MONTH CONTRACT\_MONTH,

SCD.BASE\_PRICE,

SUM(JF.QUANTITY\_ORDERED) QUANTITY\_ORDERED,

SUM(JF.QUANTITY\_ORDERED)\* SUM(JF.UNIT\_PRICE) JOB\_AMOUNT

FROM W\_JOB\_F JF, W\_LOCATION\_D LD, W\_SALES\_CLASS\_D SCD, W\_TIME\_D TD

WHERE JF.LOCATION\_ID = LD.LOCATION\_ID

AND JF.SALES\_CLASS\_ID = SCD.SALES\_CLASS\_ID

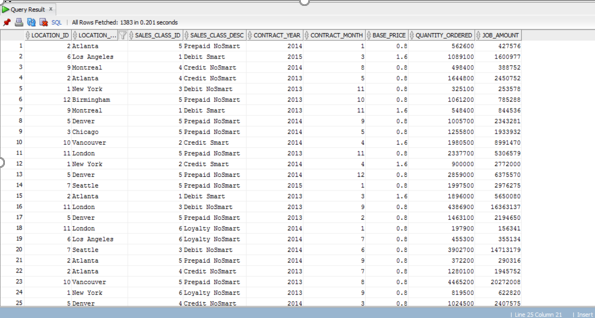
AND JF.CONTRACT\_DATE = TD.TIME\_ID

GROUP BY JF.LOCATION\_ID, LD.LOCATION\_NAME, JF.SALES\_CLASS\_ID, SCD.SALES\_CLASS\_DESC,

TD.TIME\_YEAR ,

TD.TIME\_MONTH ,

SCD.BASE\_PRICE;



Q2.

CREATE VIEW vw\_InvoiceRevenueSummary AS

SELECT JF.JOB\_ID,

JF.LOCATION\_ID,

LD.LOCATION\_NAME,

JF.UNIT\_PRICE ,

JF.QUANTITY\_ORDERED,

TD.TIME\_YEAR CONTRACT\_YEAR,

TD.TIME\_MONTH CONTRACT\_MONTH,

SUM(INF.INVOICE\_AMOUNT) INVOICE\_AMOUNT,

SUM(INF.INVOICE\_QUANTITY) INVOICE\_QUANTITY

FROM W\_JOB\_F JF,

W\_LOCATION\_D LD,

W\_INVOICELINE\_F INF,

W\_JOB\_SHIPMENT\_F JSF,

W\_SUB\_JOB\_F SJF,

W\_TIME\_D TD

WHERE JF.LOCATION\_ID = LD.LOCATION\_ID

AND JF.JOB\_ID = SJF.JOB\_ID

AND SJF.SUB\_JOB\_ID = JSF.SUB\_JOB\_ID

AND JSF.INVOICE\_ID = INF.INVOICE\_ID

AND JF.CONTRACT\_DATE = TD.TIME\_ID

GROUP BY JF.JOB\_ID,

JF.LOCATION\_ID,

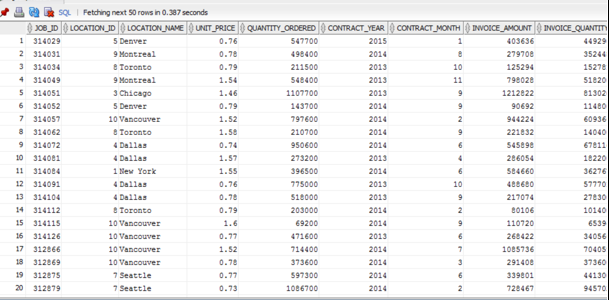
LD.LOCATION\_NAME,

JF.UNIT\_PRICE ,

JF.QUANTITY\_ORDERED,

TD.TIME\_YEAR,

TD.TIME\_MONTH ;



Q3.

CREATE VIEW vw\_SubJobCostSummary AS

SELECT JF.JOB\_ID,

JF.LOCATION\_ID,

LD.LOCATION\_NAME,

TD.TIME\_YEAR CONTRACT\_YEAR,

TD.TIME\_MONTH CONTRACT\_MONTH,

SUM(SJF.COST\_LABOR) COST\_LABOR,

SUM(SJF.COST\_MATERIAL) COST\_MATERIAL,

SUM(MACHINE\_HOURS \* RATE\_PER\_HOUR) COST\_MACHINE,

SUM(SJF.COST\_OVERHEAD) COST\_OVERHEAD,

SUM(SJF.COST\_OVERHEAD) + SUM(SJF.COST\_LABOR) + SUM(SJF.COST\_MATERIAL) + SUM(MACHINE\_HOURS \* RATE\_PER\_HOUR) COST\_TOTAL,

SUM(SJF.QUANTITY\_PRODUCED) QUANTITY\_PRODUCED,

CASE

WHEN SUM(SJF.QUANTITY\_PRODUCED) = 0

THEN 0

ELSE (SUM(SJF.COST\_OVERHEAD) + SUM(SJF.COST\_LABOR) + SUM(SJF.COST\_MATERIAL) + SUM(MACHINE\_HOURS \* RATE\_PER\_HOUR))/SUM(SJF.QUANTITY\_PRODUCED)

END UNIT\_COST

FROM W\_JOB\_F JF,

W\_LOCATION\_D LD,

W\_JOB\_SHIPMENT\_F JSF,

W\_SUB\_JOB\_F SJF,

W\_MACHINE\_TYPE\_D MTD,

W\_TIME\_D TD

WHERE JF.LOCATION\_ID = LD.LOCATION\_ID

AND JF.JOB\_ID = SJF.JOB\_ID

AND SJF.SUB\_JOB\_ID = JSF.SUB\_JOB\_ID

AND SJF.MACHINE\_TYPE\_ID = MTD.MACHINE\_TYPE\_ID

AND JF.CONTRACT\_DATE = TD.TIME\_ID

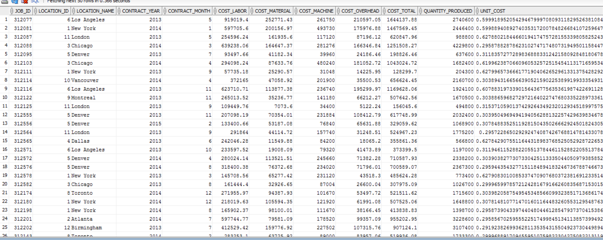
GROUP BY JF.JOB\_ID,

JF.LOCATION\_ID,

LD.LOCATION\_NAME,

TD.TIME\_YEAR ,

TD.TIME\_MONTH ;



Q4.

SELECT JF.LOCATION\_ID,

LD.LOCATION\_NAME,

JF.SALES\_CLASS\_ID,

SCD.SALES\_CLASS\_DESC,

TD.TIME\_YEAR INVOICE\_SENT\_YEAR,

TD.TIME\_MONTH INVOICE\_SENT\_MONTH,

SUM(INF.QUANTITY\_SHIPPED) - SUM(INF.INVOICE\_QUANTITY) RETURN\_QUANTITY,

SUM(INF.INVOICE\_AMOUNT) INVOICE\_AMOUNT

FROM W\_JOB\_F JF,

W\_LOCATION\_D LD,

W\_INVOICELINE\_F INF,

W\_JOB\_SHIPMENT\_F JSF,

W\_SUB\_JOB\_F SJF,

W\_TIME\_D TD,

W\_SALES\_CLASS\_D SCD

WHERE JF.LOCATION\_ID = LD.LOCATION\_ID

AND JF.JOB\_ID = SJF.JOB\_ID

AND SJF.SUB\_JOB\_ID = JSF.SUB\_JOB\_ID

AND JSF.INVOICE\_ID = INF.INVOICE\_ID

AND INF.INVOICE\_SENT\_DATE = TD.TIME\_ID

AND JF.SALES\_CLASS\_ID = SCD.SALES\_CLASS\_ID

GROUP BY JF.LOCATION\_ID,

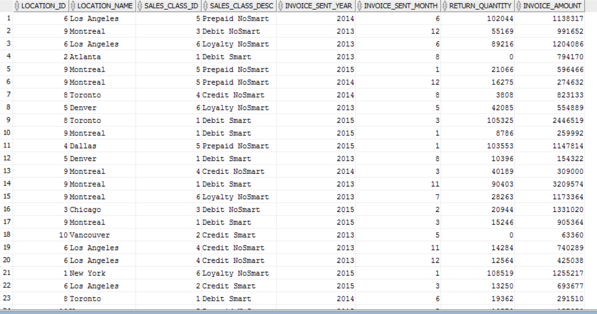
LD.LOCATION\_NAME,

JF.SALES\_CLASS\_ID,

SCD.SALES\_CLASS\_DESC,

TD.TIME\_YEAR,

TD.TIME\_MONTH;



Q5.

CREATE VIEW vw\_SHIPMENTDELAYS\_DATEPROMISED AS

SELECT JF.JOB\_ID ,

LD.Location\_ID ,

LD.LOCATION\_NAME,

JF.SALES\_CLASS\_ID,

SCD.SALES\_CLASS\_DESC,

JF.DATE\_PROMISED,

X1.Last\_Shipment\_Date,

JF.QUANTITY\_ORDERED,

X1.SumDelayShipQty AS SHIPPED\_QTY\_DELAYED,

GETBUSDAYSDIFF(X1.Last\_Shipment\_Date,JF.DATE\_PROMISED) BUSINESS\_DAYS\_DIFF

FROM W\_JOB\_F JF,

W\_LOCATION\_D LD,

W\_SALES\_CLASS\_D SCD,

(SELECT W\_SUB\_JOB\_F.JOB\_ID,

MAX(actual\_ship\_Date) AS Last\_Shipment\_Date,

SUM ( actual\_Quantity ) AS SumDelayShipQty

FROM W\_JOB\_SHIPMENT\_F,

W\_SUB\_JOB\_F,

W\_Job\_F

WHERE W\_SUB\_JOB\_F.SUB\_JOB\_ID = W\_JOB\_SHIPMENT\_F.SUB\_JOB\_ID

AND W\_Job\_F.Job\_Id = W\_SUB\_JOB\_F.JOB\_ID

AND Actual\_Ship\_Date > Date\_Promised

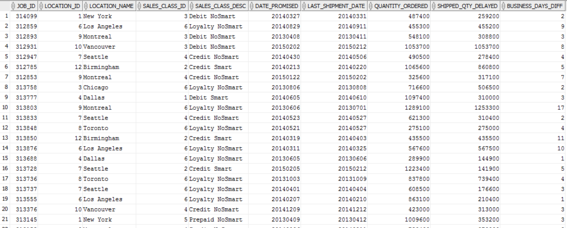
GROUP BY W\_SUB\_JOB\_F.JOB\_ID

) X1

WHERE X1.JOB\_ID = JF.JOB\_ID

AND JF.LOCATION\_ID = LD.LOCATION\_ID

AND JF.SALES\_CLASS\_ID = SCD.SALES\_CLASS\_ID;



Q6.

CREATE VIEW vw\_SHIPPEDDATESTATS AS

SELECT JF.JOB\_ID ,

LD.Location\_ID ,

LD.LOCATION\_NAME,

JF.SALES\_CLASS\_ID,

SCD.SALES\_CLASS\_DESC,

JF.DATE\_SHIP\_BY,

X1.FirstShipDate,

GETBUSDAYSDIFF(X1.FirstShipDate,JF.DATE\_SHIP\_BY) AS BUSINESS\_DAYS\_DIFF

FROM W\_JOB\_F JF,

W\_LOCATION\_D LD,

W\_SALES\_CLASS\_D SCD,

(SELECT W\_SUB\_JOB\_F.JOB\_ID,

MIN(Actual\_Ship\_Date) AS FirstShipDate

FROM W\_JOB\_SHIPMENT\_F,

W\_SUB\_JOB\_F

WHERE W\_SUB\_JOB\_F.SUB\_JOB\_ID = W\_JOB\_SHIPMENT\_F.SUB\_JOB\_ID

GROUP BY W\_SUB\_JOB\_F.JOB\_ID

) X1

WHERE X1.JOB\_ID = JF.JOB\_ID

AND JF.LOCATION\_ID = LD.LOCATION\_ID

AND JF.SALES\_CLASS\_ID = SCD.SALES\_CLASS\_ID

AND X1.FirstShipDate > JF.DATE\_SHIP\_BY;

