**Module 4 Assignment Base Queries (BQ)**

1. **BQ1**

SELECT W\_JOB\_F.Location\_ID,Location\_Name,W\_SALES\_CLASS\_D.Sales\_class\_id,Sales\_Class\_Desc,Time\_Year,Time\_Month,Base\_price,SUM(Quantity\_Ordered) AS SUMQTY,SUM(Quantity\_Ordered\*Unit\_Price) AS Job\_Amount

FROM W\_JOB\_F,W\_LOCATION\_D,W\_SALES\_CLASS\_D,W\_TIME\_D

WHERE W\_JOB\_F.Location\_ID = W\_LOCATION\_D.Location\_ID AND W\_JOB\_F.Sales\_class\_id = W\_SALES\_CLASS\_D.Sales\_class\_id AND W\_TIME\_D.Time\_id = W\_JOB\_F.Contract\_date

GROUP BY W\_JOB\_F.Location\_ID,Location\_Name,W\_SALES\_CLASS\_D.Sales\_class\_id,Sales\_Class\_Desc,Time\_Year,Time\_Month,Base\_price;

Result: (1705 rows)



1. **BQ2**

SELECT W\_JOB\_F.JOB\_ID,W\_JOB\_F.Location\_ID,W\_Location\_D.Location\_Name,Unit\_Price,Quantity\_Ordered,Time\_Year,Time\_Month,SUM(Invoice\_Amount) AS SUMINVAMT,SUM(Invoice\_Quantity) AS SUMINVQTY

FROM W\_JOB\_F,W\_LOCATION\_D,W\_TIME\_D,W\_INVOICELINE\_F,W\_SUB\_JOB\_F,W\_JOB\_SHIPMENT\_F

WHERE W\_JOB\_F.Location\_ID = W\_LOCATION\_D.Location\_ID AND W\_TIME\_D.Time\_id = W\_JOB\_F.Contract\_date

AND W\_Job\_Shipment\_F.Invoice\_Id = W\_InvoiceLine\_F.Invoice\_Id AND W\_JOB\_F.Job\_Id = W\_SUB\_JOB\_F.Job\_Id AND W\_JOB\_SHIPMENT\_F.Sub\_Job\_Id = W\_Sub\_Job\_F.Sub\_Job\_Id

GROUP BY W\_JOB\_F.JOB\_ID,W\_JOB\_F.Location\_ID,W\_Location\_D.Location\_Name,Unit\_Price,Quantity\_Ordered,Time\_Year,Time\_Month;

CREATE VIEW BQ2 AS

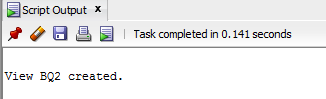
SELECT W\_JOB\_F.JOB\_ID,W\_JOB\_F.Location\_ID,W\_Location\_D.Location\_Name,Unit\_Price,Quantity\_Ordered,Time\_Year,Time\_Month,SUM(Invoice\_Amount) AS SUMINVAMT,SUM(Invoice\_Quantity) AS SUMINVQTY

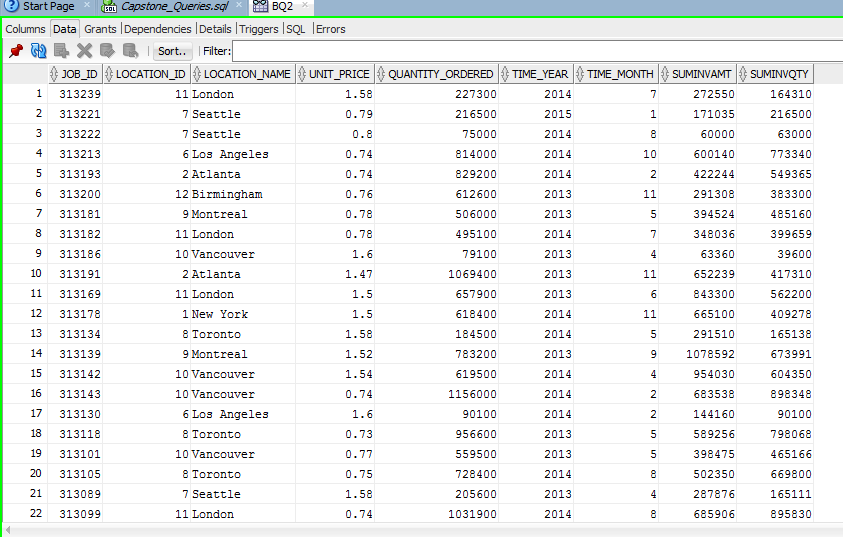
FROM W\_JOB\_F,W\_LOCATION\_D,W\_TIME\_D,W\_INVOICELINE\_F,W\_SUB\_JOB\_F,W\_JOB\_SHIPMENT\_F

WHERE W\_JOB\_F.Location\_ID = W\_LOCATION\_D.Location\_ID AND W\_TIME\_D.Time\_id = W\_JOB\_F.Contract\_date

AND W\_Job\_Shipment\_F.Invoice\_Id = W\_InvoiceLine\_F.Invoice\_Id AND W\_JOB\_F.Job\_Id = W\_SUB\_JOB\_F.Job\_Id AND W\_JOB\_SHIPMENT\_F.Sub\_Job\_Id = W\_Sub\_Job\_F.Sub\_Job\_Id

GROUP BY W\_JOB\_F.JOB\_ID,W\_JOB\_F.Location\_ID,W\_Location\_D.Location\_Name,Unit\_Price,Quantity\_Ordered,Time\_Year,Time\_Month;

 (2504 rows)



1. **BQ3**

CREATE VIEW BQ3 AS

SELECT JOB\_ID,Location\_ID,Location\_Name,Time\_Year,Time\_Month,SUMLABOUR, SUMMATERIAL, SUMOVERHEAD,SUMMACHINE,SUMQTY,TOTALCOST,TOTALCOST/SUMQTY AS UNIT\_PRICE

FROM (

SELECT W\_SUB\_JOB\_F.JOB\_ID,W\_SUB\_JOB\_F.Location\_ID,Location\_Name,Time\_Year,Time\_Month,SUM(Cost\_Labor) AS SUMLABOUR,SUM(Cost\_Material) AS SUMMATERIAL,SUM(Cost\_Overhead) AS SUMOVERHEAD,SUM(Machine\_Hours\*Rate\_per\_hour) AS SUMMACHINE,SUM(Quantity\_produced) AS SUMQTY,

SUM(Cost\_Labor+Cost\_Material+Cost\_Overhead+Machine\_Hours\*Rate\_per\_hour) AS TOTALCOST

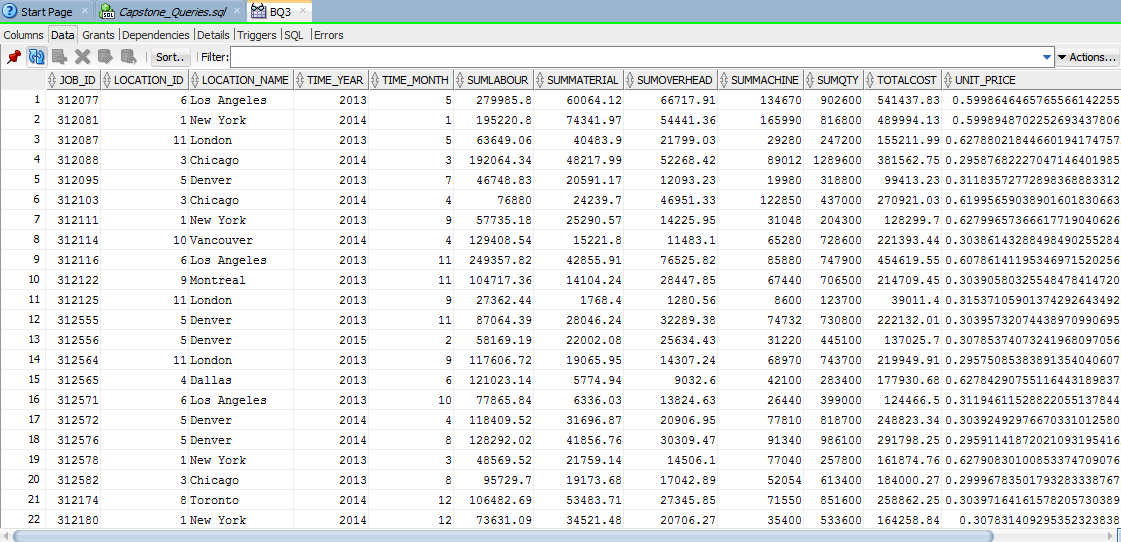
FROM W\_SUB\_JOB\_F,W\_JOB\_F,W\_TIME\_D,W\_LOCATION\_D,W\_MACHINE\_TYPE\_D

WHERE W\_SUB\_JOB\_F.Job\_id = W\_JOB\_F.Job\_id AND W\_location\_d.location\_id = W\_SUB\_JOB\_F.Location\_id AND W\_Time\_D.Time\_id = W\_Job\_F.Contract\_Date AND

W\_SUB\_JOB\_F.Machine\_Type\_id = W\_Machine\_Type\_D.Machine\_Type\_ID

GROUP BY W\_SUB\_JOB\_F.JOB\_ID,W\_SUB\_JOB\_F.Location\_ID,Location\_Name,Time\_Year,Time\_Month);

(2527 rows)



1. **BQ4**

SELECT W\_InvoiceLine\_F.Location\_Id, Location\_Name,W\_InvoiceLine\_F.Sales\_Class\_Id, Sales\_Class\_Desc,Time\_Year, Time\_Month,

SUM ( Quantity\_shipped - Invoice\_Quantity ) as QTYRETURNED,SUM ( (Quantity\_shipped - Invoice\_quantity) \* (Invoice\_amount/Invoice\_quantity) ) AS SUMAMTRETURNED

FROM W\_INVOICELINE\_F,W\_Location\_D ,W\_Sales\_Class\_D,W\_TIME\_D

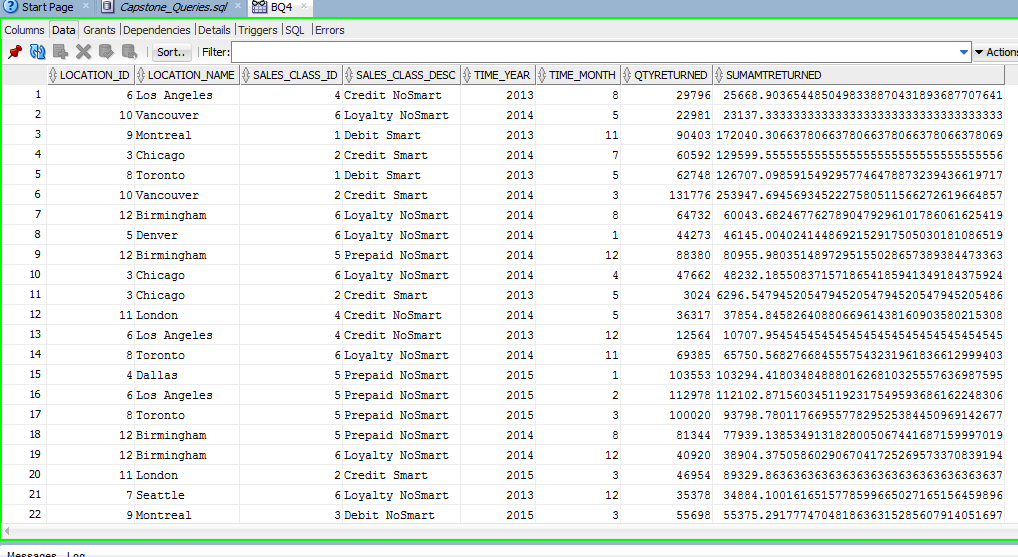
WHERE quantity\_shipped - invoice\_quantity > 0

AND W\_INVOICELINE\_F.INVOICE\_SENT\_DATE = W\_TIME\_D.TIME\_ID AND W\_INVOICELINE\_F.Location\_Id = W\_Location\_D.Location\_Id

AND W\_INVOICELINE\_F.Sales\_Class\_Id = W\_Sales\_Class\_D.Sales\_Class\_Id

GROUP BY W\_InvoiceLine\_F.Location\_Id, Location\_Name,W\_InvoiceLine\_F.Sales\_Class\_Id, Sales\_Class\_Desc,Time\_Year, Time\_Month;

1159 rows



1. **BQ5**

SELECT

Job\_id,Location\_ID,Location\_Name,Sales\_class\_id,sales\_class\_desc,

Date\_Promised,Quantity\_Ordered,LastShipDate,SUMSHIPQTY,

getBusDaysDiff(LastShipDate,Date\_Promised) AS DaysDiff

FROM

(

SELECT W\_JOB\_F.Job\_id,W\_JOB\_F.Location\_ID,Location\_Name,W\_JOB\_F.Sales\_class\_id,sales\_class\_desc,

Date\_Promised,Quantity\_Ordered,MAX(Actual\_Ship\_Date) AS LastShipDate,SUM(Actual\_Quantity) AS SUMSHIPQTY

FROM W\_JOB\_F,W\_LOCATION\_D,W\_SALES\_CLASS\_D,W\_SUB\_JOB\_F,W\_JOB\_SHIPMENT\_F

WHERE Actual\_Ship\_Date > Date\_Promised

AND W\_JOB\_F.Location\_id = W\_LOCATION\_D.Location\_id AND W\_Job\_F.Sales\_Class\_Id = W\_Sales\_Class\_D.Sales\_Class\_Id

AND 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

GROUP BY W\_JOB\_F.Job\_id,W\_JOB\_F.Location\_ID,Location\_Name,W\_JOB\_F.Sales\_class\_id,sales\_class\_desc,

Date\_Promised,Quantity\_Ordered

)

WHERE LastShipDate > Date\_Promised;

CREATE VIEW BQ5 AS

SELECT

Job\_id,Location\_ID,Location\_Name,Sales\_class\_id,sales\_class\_desc,

Date\_Promised,Quantity\_Ordered,LastShipDate,SUMSHIPQTY,

getBusDaysDiff(LastShipDate,Date\_Promised) AS DaysDiff

FROM

(

SELECT W\_JOB\_F.Job\_id,W\_JOB\_F.Location\_ID,Location\_Name,W\_JOB\_F.Sales\_class\_id,sales\_class\_desc,

Date\_Promised,Quantity\_Ordered,MAX(Actual\_Ship\_Date) AS LastShipDate,SUM(Actual\_Quantity) AS SUMSHIPQTY

FROM W\_JOB\_F,W\_LOCATION\_D,W\_SALES\_CLASS\_D,W\_SUB\_JOB\_F,W\_JOB\_SHIPMENT\_F

WHERE Actual\_Ship\_Date > Date\_Promised

AND W\_JOB\_F.Location\_id = W\_LOCATION\_D.Location\_id AND W\_Job\_F.Sales\_Class\_Id = W\_Sales\_Class\_D.Sales\_Class\_Id

AND 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

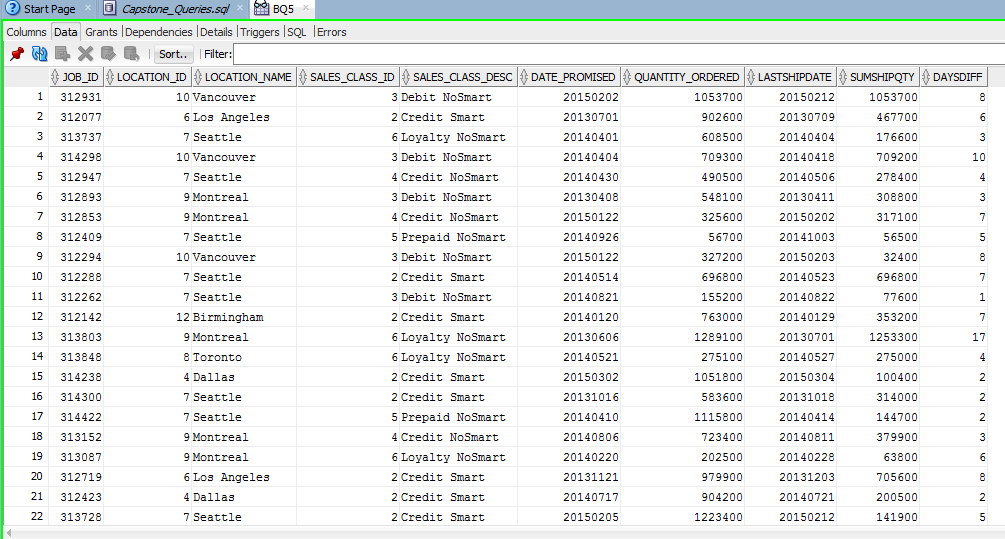
GROUP BY W\_JOB\_F.Job\_id,W\_JOB\_F.Location\_ID,Location\_Name,W\_JOB\_F.Sales\_class\_id,sales\_class\_desc,

Date\_Promised,Quantity\_Ordered

)

WHERE LastShipDate > Date\_Promised;

(71 rows)



1. **BQ6**

SELECT

Job\_id,Location\_ID,Location\_Name,Sales\_class\_id,sales\_class\_desc,

Date\_Ship\_By,FirstShipDate,getBusDaysDiff(FirstShipDate,Date\_Ship\_By) AS DaysDiff

FROM

(

SELECT W\_JOB\_F.Job\_id,W\_JOB\_F.Location\_ID,Location\_Name,W\_JOB\_F.Sales\_class\_id,sales\_class\_desc,

Date\_Ship\_By,MIN(Actual\_Ship\_Date) AS FirstShipDate

FROM W\_JOB\_F,W\_LOCATION\_D,W\_SALES\_CLASS\_D,W\_SUB\_JOB\_F,W\_JOB\_SHIPMENT\_F

WHERE W\_JOB\_F.Location\_id = W\_LOCATION\_D.Location\_id AND W\_Job\_F.Sales\_Class\_Id = W\_Sales\_Class\_D.Sales\_Class\_Id

AND 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

GROUP BY W\_JOB\_F.Job\_id,W\_JOB\_F.Location\_ID,Location\_Name,W\_JOB\_F.Sales\_class\_id,sales\_class\_desc,

Date\_Ship\_By

)

WHERE FirstShipDate > Date\_Ship\_By;

**CREATE VIEW BQ6** AS

SELECT

Job\_id,Location\_ID,Location\_Name,Sales\_class\_id,sales\_class\_desc,

Date\_Ship\_By,FirstShipDate,getBusDaysDiff(FirstShipDate,Date\_Ship\_By) AS DaysDiff

FROM

(

SELECT W\_JOB\_F.Job\_id,W\_JOB\_F.Location\_ID,Location\_Name,W\_JOB\_F.Sales\_class\_id,sales\_class\_desc,

Date\_Ship\_By,MIN(Actual\_Ship\_Date) AS FirstShipDate

FROM W\_JOB\_F,W\_LOCATION\_D,W\_SALES\_CLASS\_D,W\_SUB\_JOB\_F,W\_JOB\_SHIPMENT\_F

WHERE W\_JOB\_F.Location\_id = W\_LOCATION\_D.Location\_id AND W\_Job\_F.Sales\_Class\_Id = W\_Sales\_Class\_D.Sales\_Class\_Id

AND 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

GROUP BY W\_JOB\_F.Job\_id,W\_JOB\_F.Location\_ID,Location\_Name,W\_JOB\_F.Sales\_class\_id,sales\_class\_desc,

Date\_Ship\_By

)

WHERE FirstShipDate > Date\_Ship\_By; (87 rows)

