Course 5 (Capstone)

Week 4 assignment

Part1

BQ1

--BQ1: Location/Sales class summary for job quantity and amount (revenue/costs)

Drop View BQ1;

Create View BQ1 as

select W\_LOCATION\_D.location\_Id

,W\_LOCATION\_D.location\_name

,W\_SALES\_CLASS\_D.sales\_class\_ID

,W\_SALES\_CLASS\_D.sales\_class\_desc

,W\_TIME\_D.time\_year

,W\_TIME\_D.time\_month

,W\_SALES\_CLASS\_D.base\_price

,sum(W\_JOB\_F.QUANTITY\_ORDERED) as Sum\_Qty\_Ord

,sum(W\_JOB\_F.QUANTITY\_ORDERED\*W\_SALES\_CLASS\_D.base\_price) as job\_Amount

from w\_JOB\_F,w\_location\_D,w\_sales\_class\_D,W\_TIME\_D

where w\_location\_d.location\_id = w\_job\_f.location\_id

and W\_SALES\_CLASS\_D.SALES\_CLASS\_ID = w\_job\_f.SALES\_CLASS\_ID

and W\_TIME\_D.time\_ID =CONTRACT\_DATE

Group by W\_LOCATION\_D.location\_Id

,W\_LOCATION\_D.location\_name

,W\_SALES\_CLASS\_D.sales\_class\_ID

,W\_SALES\_CLASS\_D.sales\_class\_desc

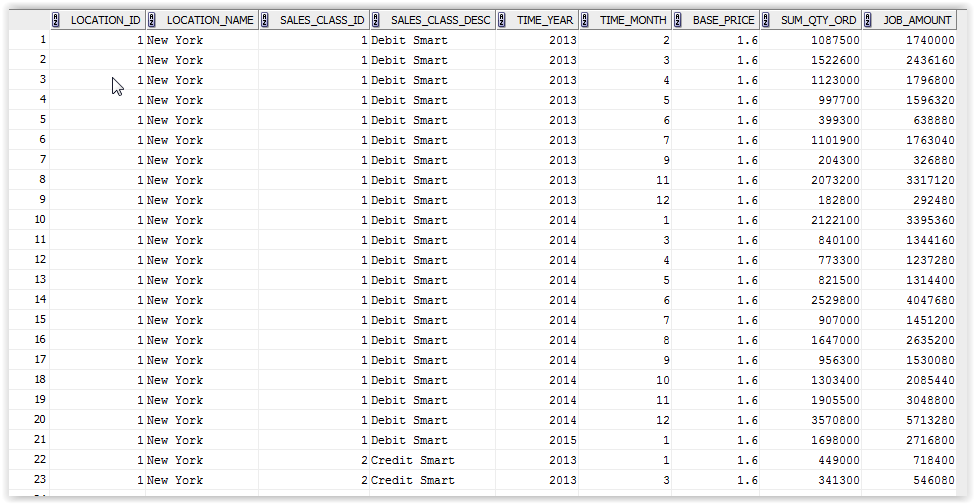
,W\_TIME\_D.time\_year

,W\_TIME\_D.time\_month

,W\_SALES\_CLASS\_D.base\_price

order by location\_ID;

select \* from BQ1;



BQ2

--BQ2: Location invoice revenue summary (revenue/costs)

Drop View BQ2;

Create View BQ2

as Select W\_JOB\_F.JOB\_ID

, W\_LOCATION\_D.LOCATION\_ID

, W\_LOCATION\_D.LOCATION\_NAME

, UNIT\_PRICE

, QUANTITY\_ORDERED

, W\_TIME\_D.TIME\_YEAR

, W\_TIME\_D.TIME\_MONTH

,sum (W\_INVOICELINE\_F.INVOICE\_AMOUNT) as Sum\_Invoice\_Amount

,sum(W\_INVOICELINE\_F.INVOICE\_QUANTITY) as Sum\_Invoice\_Qty

From W\_JOB\_F, W\_TIME\_D, W\_INVOICELINE\_F,W\_LOCATION\_D,W\_JOB\_SHIPMENT\_F

Where w\_location\_d.location\_id = w\_job\_f.location\_id

and W\_JOB\_SHIPMENT\_F.INVOICE\_ID = W\_INVOICELINE\_F.INVOICE\_ID

and W\_TIME\_D.TIME\_ID = W\_JOB\_F.CONTRACT\_DATE

and W\_JOB\_SHIPMENT\_F.LOCATION\_ID=W\_LOCATION\_D.LOCATION\_ID

Group by W\_JOB\_F.JOB\_ID

, W\_LOCATION\_D.LOCATION\_ID

, W\_LOCATION\_D.LOCATION\_NAME

, UNIT\_PRICE

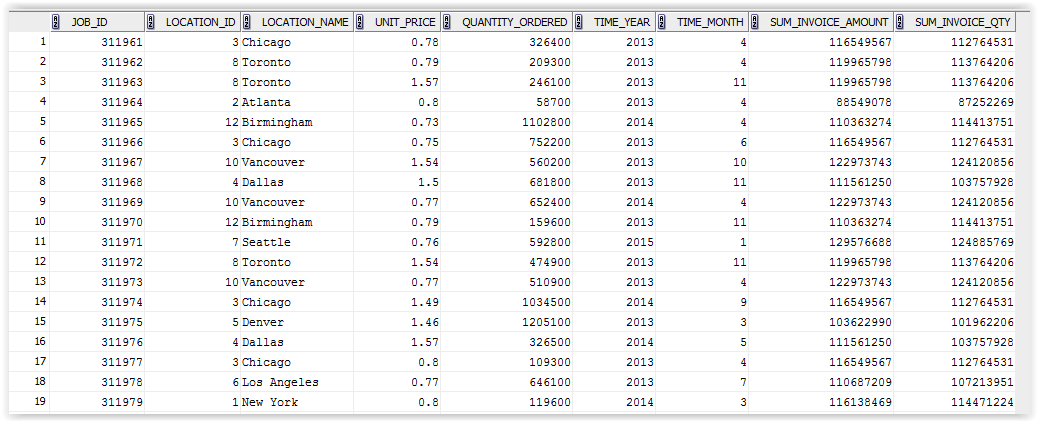
, QUANTITY\_ORDERED

, W\_TIME\_D.TIME\_YEAR

, W\_TIME\_D.TIME\_MONTH

Order by Job\_ID ;

Select \* from BQ2;



BQ3—

--BQ3: Location subjob cost summary (revenue/costs)

Drop View BQ3;

Create View BQ3 as

Select W\_JOB\_F.JOB\_ID

, W\_LOCATION\_D.LOCATION\_ID

, W\_LOCATION\_D.LOCATION\_NAME

, W\_TIME\_D.TIME\_YEAR

, W\_TIME\_D.TIME\_MONTH

, sum (W\_SUB\_JOB\_F.COST\_LABOR) as SumLaborCost

, sum (W\_SUB\_JOB\_F.COST\_MATERIAL) as SumMaterialCost

, sum(W\_SUB\_JOB\_F.MACHINE\_HOURS\*W\_MACHINE\_TYPE\_D.RATE\_PER\_HOUR) as SumMachineCost

, sum (W\_SUB\_JOB\_F.COST\_OVERHEAD) as SumOverhead

, sum (W\_SUB\_JOB\_F.COST\_LABOR

+ W\_SUB\_JOB\_F.COST\_MATERIAL

+ (W\_SUB\_JOB\_F.MACHINE\_HOURS\*W\_MACHINE\_TYPE\_D.RATE\_PER\_HOUR)

+ W\_SUB\_JOB\_F.COST\_OVERHEAD)

as SumTotalCost

, sum(W\_SUB\_JOB\_F.QUANTITY\_PRODUCED)as SumQtyProduced

--, (SumTotalCost/SumQtyProduced)

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

Where W\_LOCATION\_D.LOCATION\_ID=W\_JOB\_F.LOCATION\_ID

And W\_SUB\_JOB\_F.JOB\_ID=W\_JOB\_F.JOB\_ID

And W\_TIME\_D.TIME\_ID=W\_JOB\_F.CONTRACT\_DATE

And W\_MACHINE\_TYPE\_D.MACHINE\_TYPE\_ID = W\_SUB\_JOB\_F.MACHINE\_TYPE\_ID

Group by W\_JOB\_F.JOB\_ID

, W\_LOCATION\_D.LOCATION\_ID

, W\_LOCATION\_D.LOCATION\_NAME

, W\_TIME\_D.TIME\_YEAR

, W\_TIME\_D.TIME\_MONTH

, W\_JOB\_F.UNIT\_PRICE ;

Select JOB\_ID

, LOCATION\_ID

, LOCATION\_NAME

, TIME\_YEAR

, TIME\_MONTH

, SumLaborCost

, SumMaterialCost

, SumMachineCost

, SumOverhead

, SumTotalCost

, SumQtyProduced

,sum (SumTotalCost / SumQtyProduced) as UnitCost

-- , sum (SumLaborCost + SumMaterialCost + SumMachineHours + SumOverhead) as SumTotalCost

From BQ3

group by JOB\_ID

, LOCATION\_ID

, LOCATION\_NAME

, TIME\_YEAR

, TIME\_MONTH

, SumLaborCost

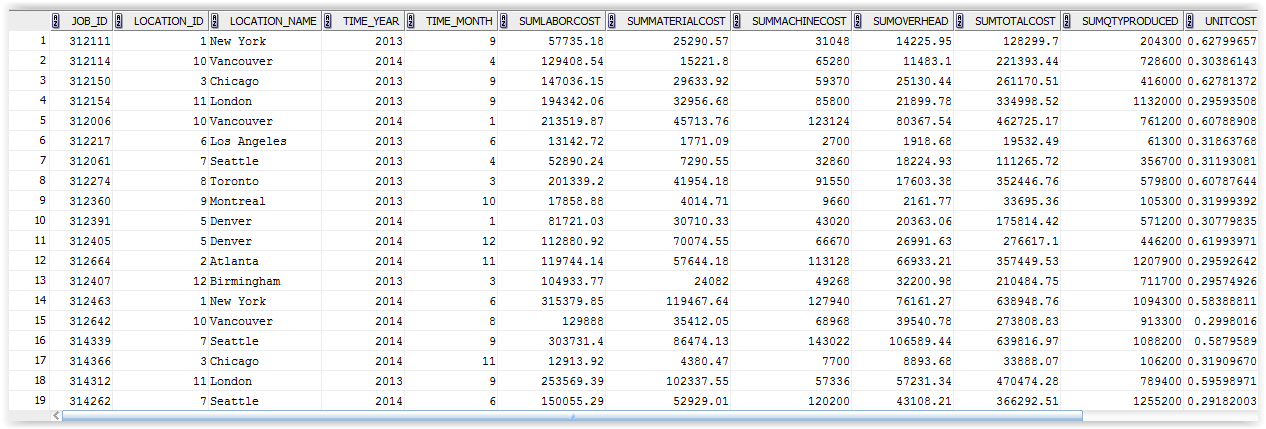
, SumMaterialCost

, SumMachineCost

, SumOverhead

, SumTotalCost

,SumQtyProduced;



BQ4

--BQ4: Returns by location and sales class (quality control)

Drop view BQ4;

Create View BQ4 as

Select W\_LOCATION\_D.LOCATION\_ID

,W\_LOCATION\_D.LOCATION\_NAME

,W\_SALES\_CLASS\_D.SALES\_CLASS\_ID

,W\_SALES\_CLASS\_D.SALES\_CLASS\_DESC

,W\_TIME\_D.TIME\_YEAR

,W\_TIME\_D.TIME\_MONTH

,sum (W\_JOB\_SHIPMENT\_F.ACTUAL\_QUANTITY-W\_INVOICELINE\_F.INVOICE\_QUANTITY) as SumQtyRtn

,sum(W\_JOB\_SHIPMENT\_F.SHIPPED\_AMOUNT-W\_INVOICELINE\_F.INVOICE\_AMOUNT) as SumDollarRtn

From W\_INVOICELINE\_F, W\_JOB\_SHIPMENT\_F,W\_LOCATION\_D,W\_TIME\_D,W\_SALES\_CLASS\_D

Where w\_job\_shipment\_f.invoice\_id = w\_invoiceline\_f.invoice\_id

And W\_INVOICELINE\_F.INVOICE\_SENT\_DATE=w\_time\_d.time\_id

And W\_SALES\_CLASS\_D.SALES\_CLASS\_ID=W\_JOB\_SHIPMENT\_F.SALES\_CLASS\_ID

and W\_JOB\_SHIPMENT\_F.LOCATION\_ID=W\_LOCATION\_D.LOCATION\_ID

and (W\_JOB\_SHIPMENT\_F.ACTUAL\_QUANTITY-W\_INVOICELINE\_F.INVOICE\_QUANTITY) > 0

Group by W\_LOCATION\_D.LOCATION\_ID

,W\_LOCATION\_D.LOCATION\_NAME

,W\_SALES\_CLASS\_D.SALES\_CLASS\_ID

,W\_SALES\_CLASS\_D.SALES\_CLASS\_DESC

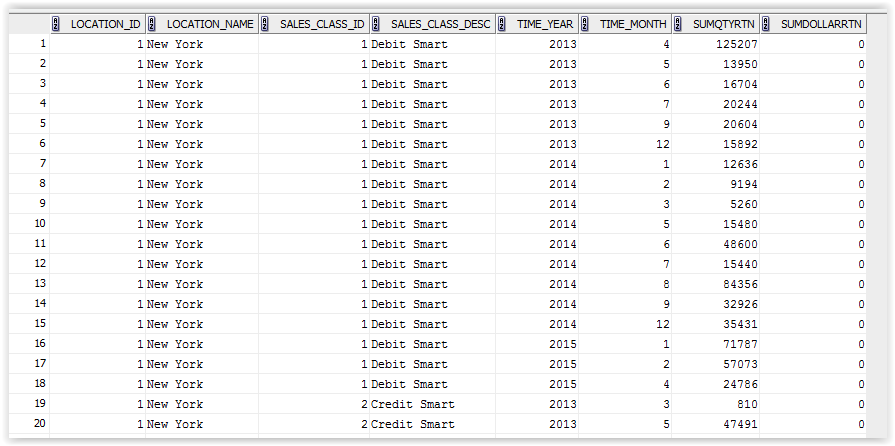
,W\_TIME\_D.TIME\_YEAR

,W\_TIME\_D.TIME\_MONTH

Order by location\_ID

;

Select \* from BQ4;



BQ5

--BQ5: Last shipment delays involving date promised (quality control)

Drop view BQ5;

Create view BQ5 as

Select W\_JOB\_F.job\_ID

, W\_LOCATION\_D.LOCATION\_ID

, W\_LOCATION\_D.LOCATION\_NAME

, W\_SALES\_CLASS\_D.SALES\_CLASS\_ID

, W\_SALES\_CLASS\_D.SALES\_CLASS\_DESC

, W\_JOB\_F.DATE\_PROMISED

, X1.Last\_Shipment\_Date

, W\_JOB\_F.QUANTITY\_ORDERED

, getBusDaysDiff (DATE\_PROMISED,Last\_Shipment\_Date) as BusDaysOff

from

-- Use in FROM clause of BQ5

-- X1 is an alias name that can be referenced in the outer query

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

Where W\_LOCATION\_D.LOCATION\_ID=W\_JOB\_F.LOCATION\_ID

And W\_SALES\_CLASS\_D.SALES\_CLASS\_ID=W\_JOB\_F.SALES\_CLASS\_ID

And W\_TIME\_D.TIME\_ID=W\_JOB\_F.DATE\_PROMISED

Group by W\_JOB\_F.job\_ID

, W\_LOCATION\_D.LOCATION\_ID

, W\_LOCATION\_D.LOCATION\_NAME

, W\_SALES\_CLASS\_D.SALES\_CLASS\_ID

, W\_SALES\_CLASS\_D.SALES\_CLASS\_DESC

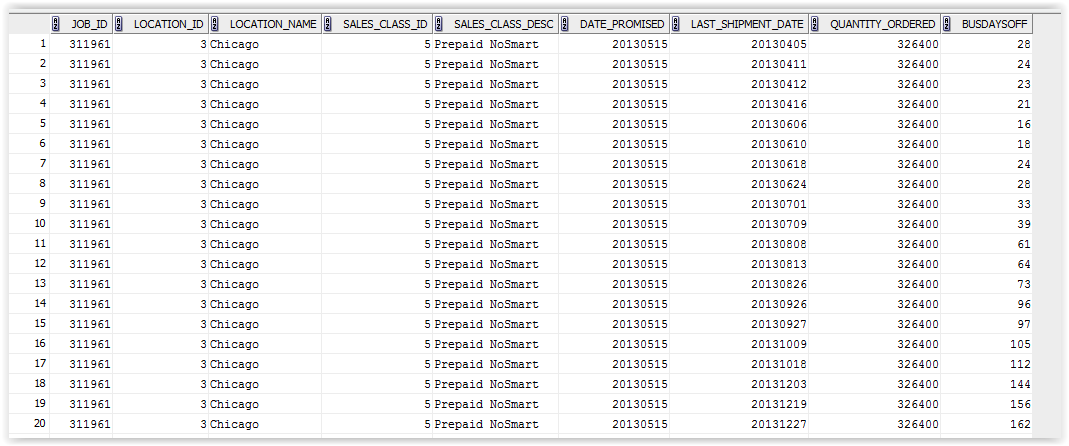
, W\_JOB\_F.DATE\_PROMISED

, X1.Last\_Shipment\_Date

, W\_JOB\_F.QUANTITY\_ORDERED

Order by Job\_Id

;

Select \* from BQ5; 

a

BQ6

--BQ6: First shipment delays involving shipped by date (quality control)

Drop View BQ6;

Create View BQ6 as

Select W\_JOB\_F.job\_ID

, W\_LOCATION\_D.LOCATION\_ID

, W\_LOCATION\_D.LOCATION\_NAME

, W\_SALES\_CLASS\_D.SALES\_CLASS\_ID

, W\_SALES\_CLASS\_D.SALES\_CLASS\_DESC

, W\_JOB\_F.DATE\_SHIP\_BY

, W\_JOB\_F.CONTRACT\_DATE

, X1.FirstShipDate

, getBusDaysDiff (W\_JOB\_F.CONTRACT\_DATE,x1.FirstShipDate) as BusDaysOff

From

-- Use in FROM clause of BQ6

-- X1 is an alias name that can be referenced in the outer query

( 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,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\_SALES\_CLASS\_D.SALES\_CLASS\_ID=W\_JOB\_F.SALES\_CLASS\_ID

And W\_TIME\_D.TIME\_ID=W\_JOB\_F.DATE\_SHIP\_BY

Group by W\_JOB\_F.job\_ID

, W\_LOCATION\_D.LOCATION\_ID

, W\_LOCATION\_D.LOCATION\_NAME

, W\_SALES\_CLASS\_D.SALES\_CLASS\_ID

, W\_SALES\_CLASS\_D.SALES\_CLASS\_DESC

, W\_JOB\_F.DATE\_SHIP\_BY

, W\_JOB\_F.CONTRACT\_DATE

, X1.FirstShipDate

--, getBusDaysDiff (CONTRACT\_DATE,x1.FirstShipDate)

Order by Job\_Id

;

Select \* From BQ6;

