

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

```
SELECT W_Location_D.Location_Id, Location_Name,  
       W_Sales_Class_D.Sales_Class_Id, Sales_Class_Desc,  
       Base_Price, Time_Year, Time_Month,  
       SUM ( QUANTITY_ORDERED ) AS Sum_Job_Qty,  
       SUM ( QUANTITY_ORDERED * Unit_Price ) AS Sum_Job_Amount  
FROM W_JOB_F, W_Location_D, W_TIME_D, W_Sales_Class_D  
WHERE W_Location_D.Location_ID = W_Job_F.Location_Id  
      AND W_JOB_F.CONTRACT_DATE = W_TIME_D.Time_ID  
      AND W_Job_F.Sales_Class_Id = W_Sales_Class_D.Sales_Class_Id  
GROUP BY W_Location_D.Location_Id, Location_Name,  
         W_Sales_Class_D.Sales_Class_Id, Sales_Class_Desc,  
         Base_Price, Time_Year, Time_Month;
```

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Worksheet Query Builder

```

SELECT W_Location_D.Location_Id, Location_Name,
       W_Sales_Class_D.Sales_Class_Id, Sales_Class_Desc,
       Base_Price, Time_Year, Time_Month,
       SUM ( QUANTITY_ORDERED ) AS Sum_Job_Qty,
       SUM ( QUANTITY_ORDERED * Unit_Price ) AS Sum_Job_Amount
FROM W_JOB_F, W_Location_D, W_TIME_D, W_Sales_Class_D
WHERE W_Location_D.Location_Id = W_Job_F.Location_Id
AND W_JOB_F.CONTRACT_DATE = W_TIME_D.Time_ID
AND W_Job_F.Sales_Class_Id = W_Sales_Class_D.Sales_Class_Id
GROUP BY W_Location_D.Location_Id, Location_Name,
         W_Sales_Class_D.Sales_Class_Id, Sales_Class_Desc,
         Base_Price, Time_Year, Time_Month;

```

Script Output x

Task completed in 0.169 seconds

LOCATION_ID	LOCATION_NAME	SALES_CLASS_ID	SALES_CLASS_DESC	BASE_PRICE	TIME_YEAR	TIME_MONTH	SUM_JOB_QTY	SUM_JOB_AMOUNT
6	Los Angeles	2	Credit Smart	1.6	2,014	3	958,600	1,471,202
8	Toronto	2	Credit Smart	1.6	2,013	6	1,396,700	2,113,126
5	Denver	5	Prepaid NoSmart	0.8	2,013	7	1,724,400	1,306,088
11	London	1	Debit Smart	1.6	2,013	8	1,101,600	1,701,404
6	Los Angeles	2	Credit Smart	1.6	2,013	8	777,800	1,205,168
1	New York	5	Prepaid NoSmart	0.8	2,014	2	814,000	634,920
3	Chicago	1	Debit Smart	1.6	2,013	9	1,107,700	1,617,242
5	Denver	5	Prepaid NoSmart	0.8	2,014	9	1,005,700	777,263
10	Vancouver	2	Credit Smart	1.6	2,014	2	2,670,200	4,043,548
12	Birmingham	3	Debit NoSmart	0.8	2,014	11	1,859,800	1,396,031
1	New York	2	Credit Smart	1.6	2,014	8	1,815,800	2,743,220
6	Los Angeles	2	Credit Smart	1.6	2,014	2	624,200	955,992
4	Dallas	6	Loyalty NoSmart	0.8	2,013	10	835,700	637,560
1	New York	6	Loyalty NoSmart	0.8	2,013	11	1,261,600	959,460
1	New York	2	Debit NoSmart	0.8	2,014	2	1,175,200	902,726

BQ2: Location invoice revenue summary (revenue/costs)

```
CREATE VIEW LocRevenueSummary AS
SELECT W_Sub_Job_F.Job_Id,
       W_Location_D.LOCATION_ID, W_LOCATION_D.LOCATION_NAME,
       Quantity_Ordered, Unit_Price,
       W_TIME_D.TIME_YEAR, W_TIME_D.TIME_MONTH,
       SUM (Invoice_Quantity) AS SumInvoiceQty,
       SUM (Invoice_Amount) AS SumInvoiceAmt
FROM W_Job_Shipment_F, W_Sub_Job_F, W_Location_D, W_Time_D,
     W_InvoiceLine_F, W_Job_F
WHERE W_Sub_Job_F.Sub_Job_Id = W_Job_Shipment_F.Sub_Job_Id
      AND W_Job_Shipment_F.Invoice_Id = W_InvoiceLine_F.Invoice_Id
      AND W_Time_D.Time_Id = Contract_Date
      AND W_Location_D.Location_Id = W_InvoiceLine_F.Location_Id
      AND W_Job_F.Job_Id = W_Sub_Job_F.Job_Id
GROUP BY W_Sub_Job_F.Job_Id, W_Location_D.Location_Id,
         W_LOCATION_D.LOCATION_NAME, Quantity_Ordered, Unit_Price,
         W_Time_D.Time_Year, W_Time_D.Time_Month;
```

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Worksheet Query Builder

```
CREATE VIEW LocRevenueSummary AS
SELECT W_Sub_Job_F.Job_Id,
       W_Location_D.LOCATION_ID, W_Location_D.LOCATION_NAME,
       Quantity_Ordered, Unit_Price,
       W_Time_D.TIME_YEAR, W_Time_D.TIME_MONTH,
       SUM (Invoice_Quantity) AS SumInvoiceQty,
       SUM (Invoice_Amount) AS SumInvoiceAmt
FROM W_Job_Shipment_F, W_Sub_Job_F, W_Location_D, W_Time_D,
     W_InvoiceLine_F, W_Job_F
WHERE W_Sub_Job_F.Sub_Job_Id = W_Job_Shipment_F.Sub_Job_Id
AND W_Job_Shipment_F.Invoice_Id = W_InvoiceLine_F.Invoice_Id
AND W_Time_D.Time_Id = Contract_Date
AND W_Location_D.Location_Id = W_InvoiceLine_F.Location_Id
AND W_Job_F.Job_Id = W_Sub_Job_F.Job_Id
GROUP BY W_Sub_Job_F.Job_Id, W_Location_D.Location_Id,
         W_Location_D.LOCATION_NAME, Quantity_Ordered, Unit_Price,
         W_Time_D.Time_Year, W_Time_D.Time_Month;
```

Script Output x Task completed in 0.417 seconds

View LOCREVENUESUMMARY created.

BQ3: Location subjob cost summary(revenue/costs)

```
CREATE VIEW LocCostSummary AS
SELECT W_Sub_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(Cost_Labor) AS SumLaborCosts,
       SUM(Cost_Material) AS SumMaterialCosts,
       SUM(Cost_Overhead) AS SumOvrhdCosts,
       SUM(Machine_Hours * Rate_Per_Hour) AS SumMachineCosts,
       SUM(Quantity_Produced) AS SumQtyProduced,
       SUM(Cost_Labor + Cost_Material + Cost_Overhead +
            (Machine_Hours * Rate_Per_Hour) ) AS TotalCosts,
       SUM( Cost_Labor + Cost_Material + Cost_Overhead + (Machine_Hours *
            Rate_Per_Hour) ) / SUM(Quantity_Produced)  AS UnitCosts
FROM W_Job_F, W_Sub_Job_F, W_Location_D, W_Time_D, W_Machine_Type_D
WHERE W_Job_F.Location_Id = W_Location_D.Location_Id
      AND W_Sub_Job_F.Machine_Type_Id = W_Machine_Type_D.Machine_Type_Id
      AND W_Time_D.Time_Id = Contract_Date
      AND W_Job_F.Job_Id = W_Sub_Job_F.Job_Id
GROUP BY W_Sub_Job_F.Job_Id, W_Location_D.LOCATION_ID,
         W_LOCATION_D.LOCATION_NAME, W_Time_D.TIME_YEAR,
         W_Time_D.TIME_MONTH;
```

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Worksheet Query Builder

0.101 seconds

```
CREATE VIEW LocCostSummary AS
SELECT W_Sub_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(Cost_Labor) AS SumLaborCosts,
       SUM(Cost_Material) AS SumMaterialCosts,
       SUM(Cost_Overhead) AS SumOvrhdCosts,
       SUM(Machine_Hours * Rate_Per_Hour) AS SumMachineCosts,
       SUM(Quantity_Produced) AS SumQtyProduced,
       SUM(Cost_Labor + Cost_Material + Cost_Overhead +
           (Machine_Hours * Rate_Per_Hour) ) AS TotalCosts,
       SUM( Cost_Labor + Cost_Material + Cost_Overhead + (Machine_Hours *
           Rate_Per_Hour) ) / SUM(Quantity_Produced) AS UnitCosts
FROM W_Job_F, W_Sub_Job_F, W_Location_D, W_Time_D, W_Machine_Type_D
WHERE W_Job_F.Location_Id = W_Location_D.Location_Id
AND W_Sub_Job_F.Machine_Type_Id = W_Machine_Type_D.Machine_Type_Id
AND W_Time_D.Time_Id = Contract_Date
AND W_Job_F.Job_Id = W_Sub_Job_F.Job_Id
GROUP BY W_Sub_Job_F.Job_Id, W_Location_D.LOCATION_ID,
         W_Location_D.LOCATION_NAME, W_Time_D.TIME_YEAR,
         W_Time_D.TIME_MONTH;
```

Script Output

Task completed in 0.101 seconds

View LOCCOSTSUMMARY created.

BQ 4: Returns by location and sales class (quality control)

```
SELECT
  W_Location_D.Location_Id, Location_Name,
  W_Sales_Class_D.Sales_Class_Id, Sales_Class_Desc,
  Time_Year, Time_Month,
  SUM ( quantity_shipped - invoice_quantity ) as SumReturnQty,
  SUM ( (quantity_shipped - invoice_quantity) *
        (invoice_amount/invoice_quantity) ) AS SumReturnAmt
FROM W_INVOICELINE_F INNER JOIN W_TIME_D
  ON W_INVOICELINE_F.INVOICE_SENT_DATE = W_TIME_D.TIME_ID
  INNER JOIN W_Location_D
    ON W_INVOICELINE_F.Location_Id = W_Location_D.Location_Id
  INNER JOIN W_Sales_Class_D
    ON W_INVOICELINE_F.Sales_Class_Id = W_Sales_Class_D.Sales_Class_Id
WHERE quantity_shipped > invoice_quantity
GROUP BY W_Location_D.Location_Id, Location_Name,
  W_Sales_Class_D.Sales_Class_Id, Sales_Class_Desc, Time_Year, Time_Month;
```


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

```
CREATE VIEW LastShipmentDelays AS
SELECT W_JOB_F.job_ID ,
       W_JOB_F.SALES_CLASS_ID, Sales_Class_Desc,
       W_JOB_F.LOCATION_ID, Location_Name,
       Date_Promised, Last_Shipment_Date,
       QUANTITY_ORDERED, SumDelayShipQty,
       GetBusDaysDiff ( date_promised, Last_Shipment_Date ) AS BusDaysDiff
FROM W_JOB_F , W_Location_D, W_Sales_Class_D,
     (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 date_promised < X1.Last_Shipment_Date
      AND W_JOB_F.JOB_ID = X1.Job_Id
      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;
```

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Worksheet Query Builder

```
CREATE VIEW LastShipmentDelays AS
SELECT W_JOB_F.job_ID ,
       W_JOB_F.SALES_CLASS_ID, Sales_Class_Desc,
       W_JOB_F.LOCATION_ID, Location_Name,
       Date_Promised, Last_Shipment_Date,
       QUANTITY_ORDERED, SumDelayShipQty,
       GetBusDaysDiff ( date_promised, Last_Shipment_Date ) AS BusDaysDiff
FROM W_JOB_F , W_Location_D, W_Sales_Class_D,
     (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 date_promised < X1.Last_Shipment_Date
      AND W_JOB_F.JOB_ID = X1.Job_Id
      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;
```

Script Output

Task completed in 0.016 seconds

View LASTSHIPMENTDELAYS created.

BQ 6: First shipment delays involving shipped by date (quality control)

```
CREATE VIEW FirstShipmentDelays AS
  SELECT W_JOB_F.job_ID,
         W_JOB_F.SALES_CLASS_ID, Sales_Class_Desc,
         W_JOB_F.LOCATION_ID, Location_Name,
         Date_Ship_By,
         FirstShipDate,
         GetBusDaysDiff ( date_ship_By, FirstShipDate ) AS BusDaysDiff
FROM W_JOB_F , W_Location_D, W_Sales_Class_D,
  (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 date_ship_By < X1.FirstShipDate AND W_JOB_F.JOB_ID = X1.Job_Id
  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;
```

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Start Page TEST 0.016 seconds

Worksheet Query Builder

```
CREATE VIEW FirstShipmentDelays AS
SELECT W_JOB_F.job_ID,
       W_JOB_F.SALES_CLASS_ID, Sales_Class_Desc,
       W_JOB_F.LOCATION_ID, Location_Name,
       Date_Ship_By,
       FirstShipDate,
       GetBusDaysDiff ( date_ship_By, FirstShipDate ) AS BusDaysDiff
FROM W_JOB_F , W_Location_D, W_Sales_Class_D,
     (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 date_ship_By < X1.FirstShipDate AND W_JOB_F.JOB_ID = X1.Job_Id
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;
```

Script Output x Task completed in 0.016 seconds

View FIRSTSHIPMENTDELAYS created.