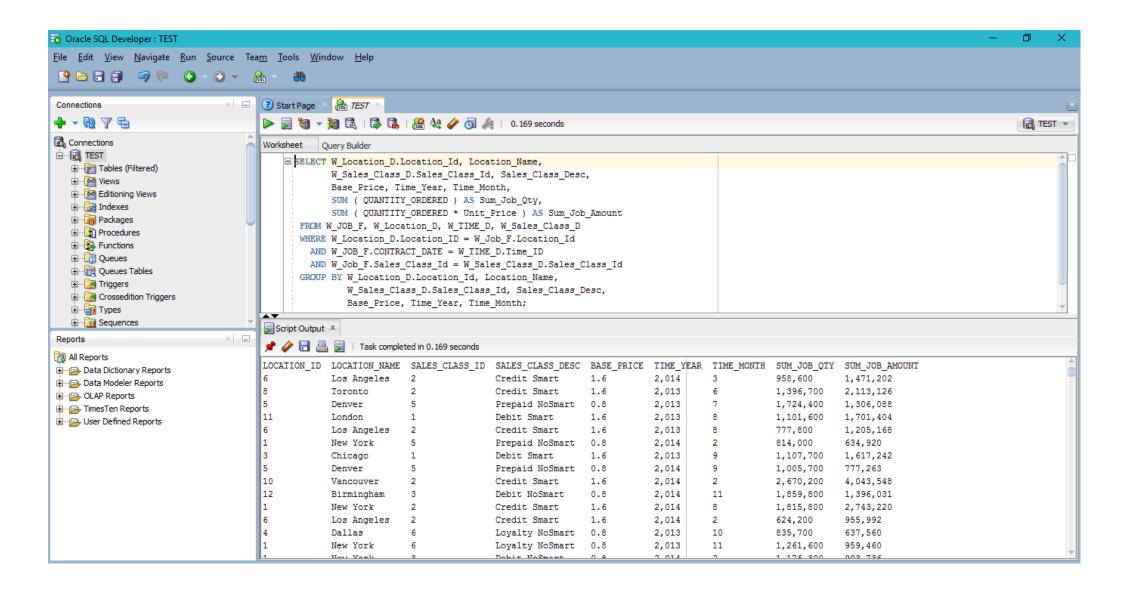
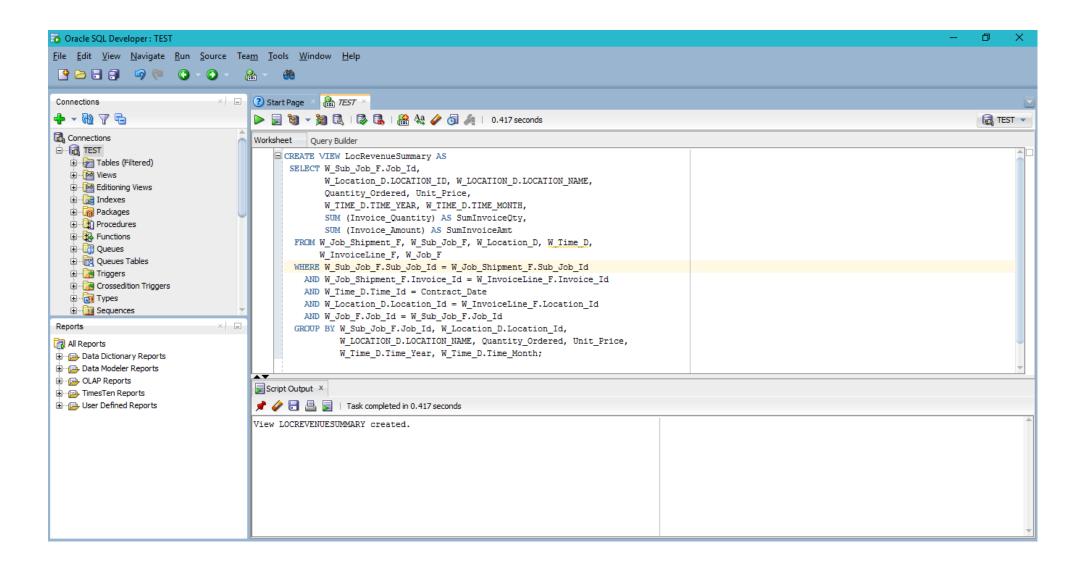
# **BQ1:** Location/Sales class summary for job quantity and amount (revenue/costs)

```
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;
```



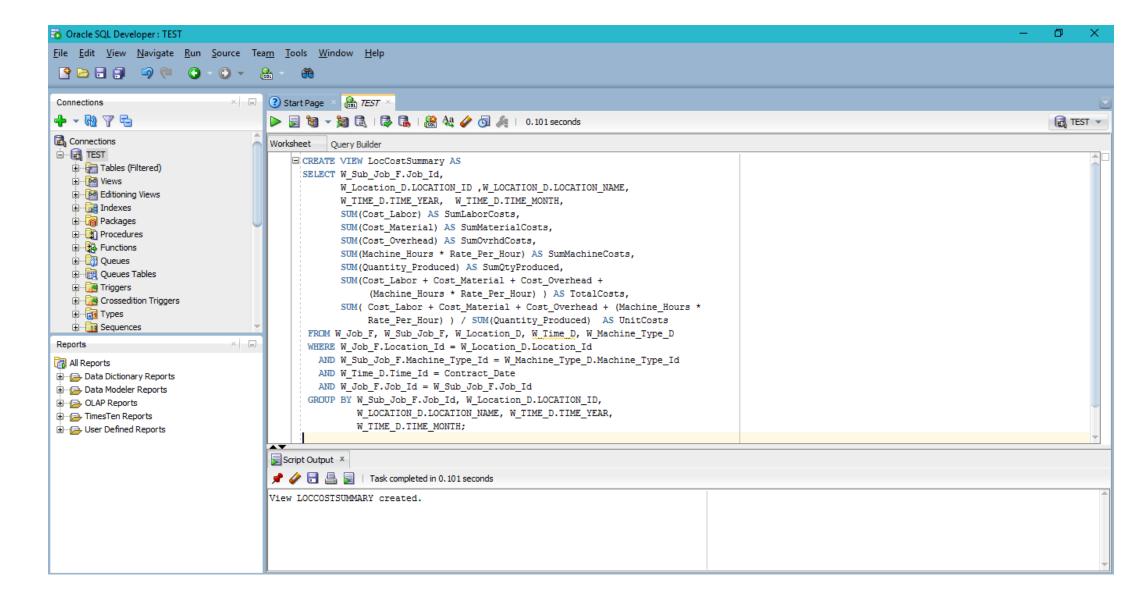
# **BQ2:** Location invoice revenue summary (revenue/costs)

```
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;
```



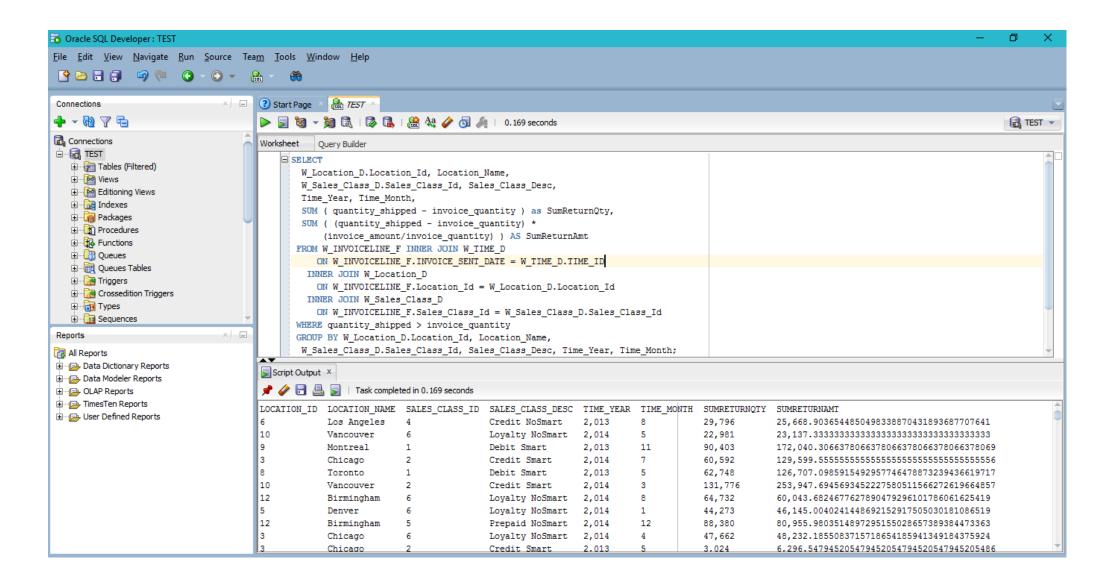
#### **BQ3:** Location subjob cost summary(revenue/costs)

```
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;
```



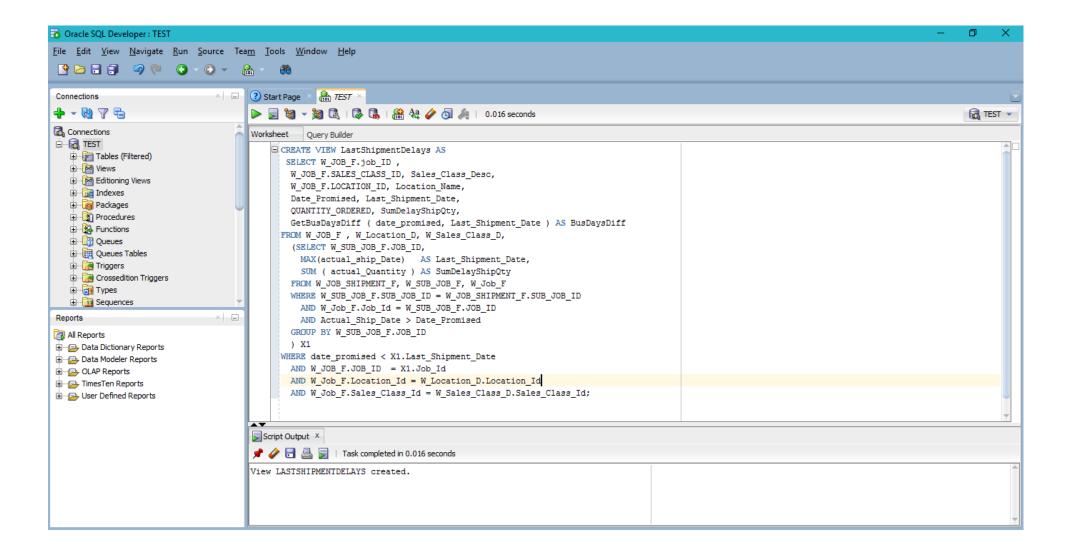
### **BQ 4: Returns by location and sales class (quality control)**

```
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;
```



# 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;
```

