1.

BQ1

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

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;

-- CREATE VIEW statement

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;

BO3

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;

-- CREATE VIEW statement

```
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;

BQ4

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;

BO5

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, **OUANTITY ORDERED, SumDelayShipOty.** 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;

-- CREATE VIEW statement

```
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;
BQ6
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;
-- CREATE VIEW statement
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;