1. Create Materialized View for 2011 Shipments

CREATE MATERIALIZED VIEW SalesByVendorDateKeyMV2011

BUILD IMMEDIATE

REFRESH COMPLETE ON DEMAND AS

SELECT inventory_fact.custvendorkey, date_dim.datekey, SUM(extcost) AS ExtCostSum, SUM(quantity) AS QuantSum, COUNT(*) AS TransTotal

FROM inventory_fact, cust_vendor_dim, date_dim

WHERE inventory_fact.custvendorkey = cust_vendor_dim.custvendorkey

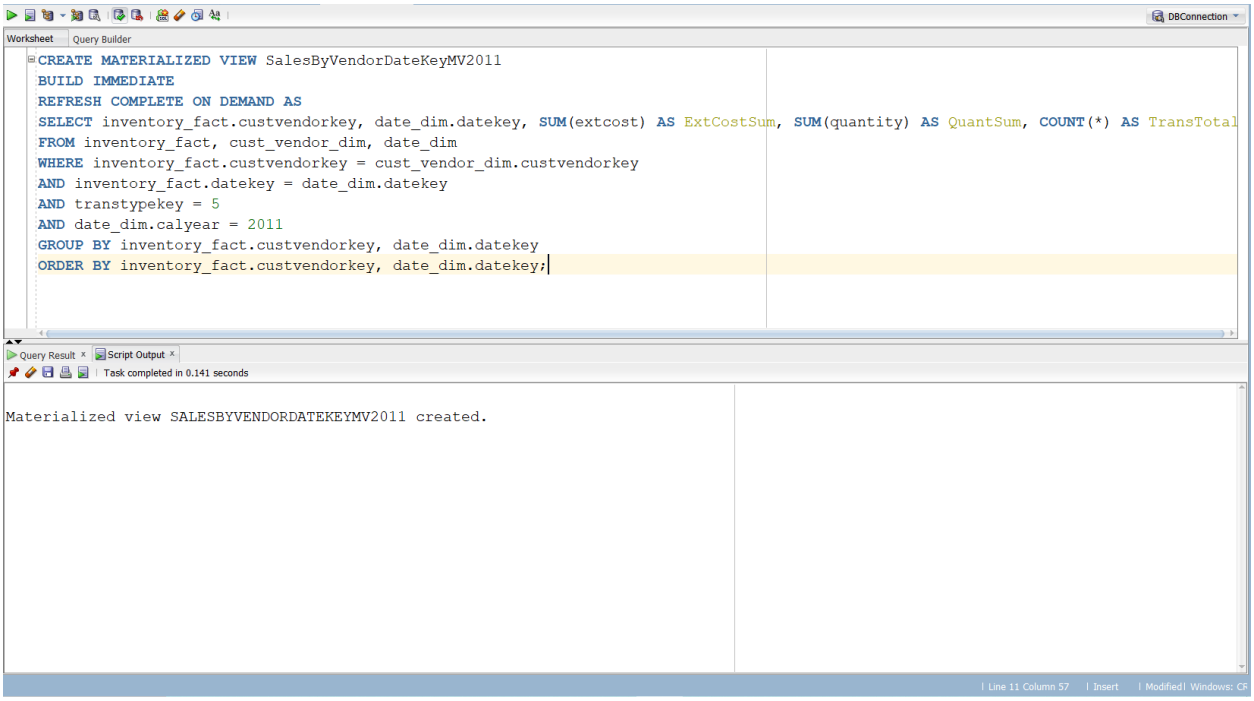
AND inventory_fact.datekey = date_dim.datekey

AND transtypekey = 5

AND date_dim.calyear = 2011

GROUP BY inventory_fact.custvendorkey, date_dim.datekey

ORDER BY inventory_fact.custvendorkey, date_dim.datekey;



2. Create Materialized View for 2012 Shipments

CREATE MATERIALIZED VIEW SalesByVendorDateKeyMV2012

BUILD IMMEDIATE

REFRESH COMPLETE ON DEMAND AS

SELECT inventory_fact.custvendorkey, date_dim.datekey, SUM(extcost) AS ExtCostSum, SUM(quantity) AS QuantSum, COUNT(*) AS TransTotal

FROM inventory_fact, cust_vendor_dim, date_dim

WHERE inventory_fact.custvendorkey = cust_vendor_dim.custvendorkey

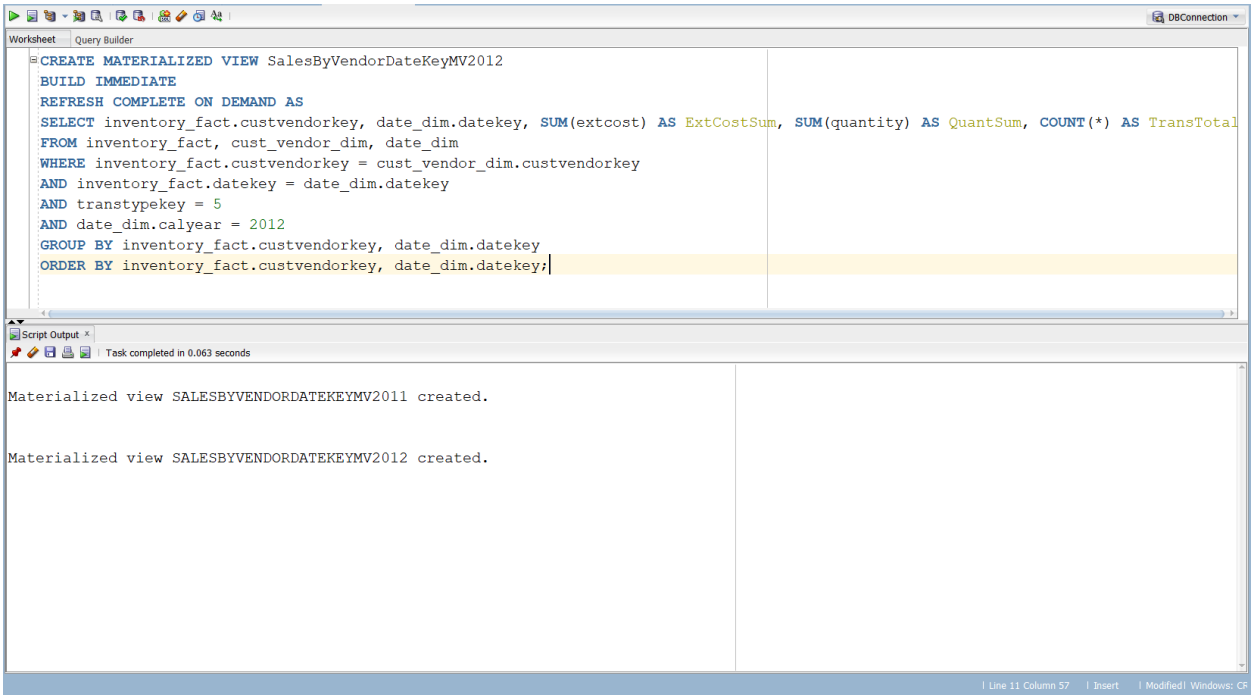
AND inventory_fact.datekey = date_dim.datekey

AND transtypekey = 5

AND date_dim.calyear = 2012

GROUP BY inventory_fact.custvendorkey, date_dim.datekey

ORDER BY inventory_fact.custvendorkey, date_dim.datekey;



3. Rewrite Query 1 of the Module 2 Assignment

SELECT date_dim.calmonth, addrcatcode1, SUM(QuantSum) QuantSum2, SUM(ExtCostSum) AS ExtCostSum2

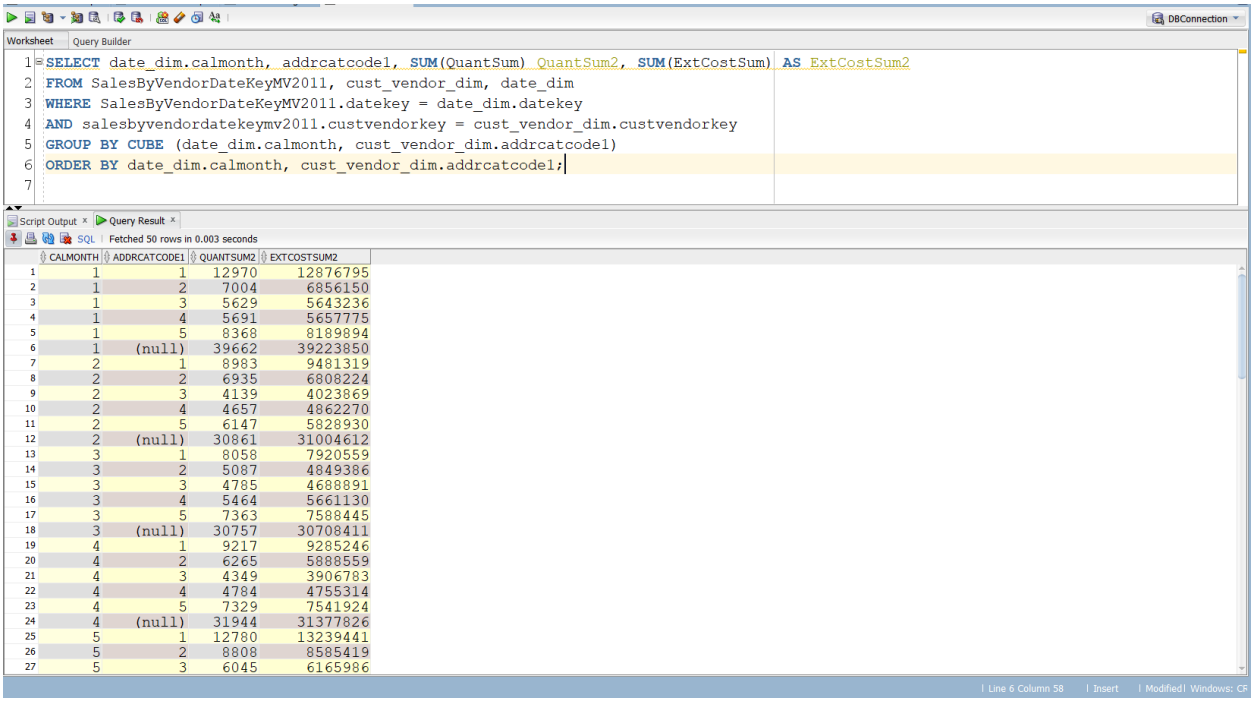
FROM SalesByVendorDateKeyMV2011, cust_vendor_dim, date_dim

WHERE SalesByVendorDateKeyMV2011.datekey = date_dim.datekey

AND salesbyvendordatekeymv2011.custvendorkey = cust_vendor_dim.custvendorkey

GROUP BY CUBE (date_dim.calmonth, cust_vendor_dim.addrcatcode1)

ORDER BY date_dim.calmonth, cust_vendor_dim.addrcatcode1;



```
SELECT date_dim.calmonth, addrcatcode1, SUM(QuantSum) QuantSum2, SUM(ExtCostSum) AS ExtCostSum2
FROM SalesByVendorDateKeyMV2011, cust_vendor_dim, date_dim
WHERE SalesByVendorDateKeyMV2011.datekey = date_dim.datekey
AND salesbyvendordatekeymv2011.custvendorkey = cust_vendor_dim.custvendorkey
GROUP BY CUBE (date_dim.calmonth, cust_vendor_dim.addrcatcode1)
ORDER BY date_dim.calmonth, cust_vendor_dim.addrcatcode1;
```

Fetched 50 rows in 0.003 seconds

	CALMONTH	ADDRCATCODE1	QUANTSUM2	EXTCOSTSUM2
1	1	1	12970	12876795
2	1	2	7004	6856150
3	1	3	5629	5643236
4	1	4	5691	5657775
5	1	5	8368	8189894
6	1	(null)	39662	39223850
7	2	1	8983	9481319
8	2	2	6935	6808224
9	2	3	4139	4023869
10	2	4	4657	4862270
11	2	5	6147	5828930
12	2	(null)	30861	31004612
13	3	1	8058	7920559
14	3	2	5087	4849386
15	3	3	4785	4688891
16	3	4	5464	5661130
17	3	5	7363	7588445
18	3	(null)	30757	30708411
19	4	1	9217	9285246
20	4	2	6265	5888559
21	4	3	4349	3906783
22	4	4	4784	4755314
23	4	5	7329	7541924
24	4	(null)	31944	31377826
25	5	1	12780	13239441
26	5	2	8808	8585419
27	5	3	6045	6165986

4. Rewrite Query 2 of the Module 2 Assignment

SELECT calquarter, zip, name, SUM(extcost) AS SumExtCost, SUM(transtotal) AS TransTotal

FROM (

SELECT calquarter, zip, name, SUM(extcostsum) AS extcost, SUM(transtotal) AS transtotal

FROM SalesByVendorDateKeyMV2011, cust_vendor_dim, date_dim

WHERE salesbyvendordatekeymv2011.custvendorkey = cust_vendor_dim.custvendorkey

AND SalesByVendorDateKeyMV2011.datekey = date_dim.datekey

GROUP BY calquarter, zip, name

UNION

SELECT calquarter, zip, name, SUM(extcostsum) AS extcost, SUM(transtotal) AS transtotal

FROM SalesByVendorDateKeyMV2012, cust_vendor_dim, date_dim

WHERE salesbyvendordatekeymv2012.custvendorkey = cust_vendor_dim.custvendorkey

AND SalesByVendorDateKeyMV2012.datekey = date_dim.datekey

GROUP BY calquarter, zip, name) X

GROUP BY CUBE (calquarter, zip, name)

ORDER BY calquarter, zip, name;