Solution for Problem6 of Module 2 Assignment

Dimension Tables are:

Customer

CustKey	Cust_Name	E_Mail_Address	City	State	Zip	Country	Credit_Limit	Terms_Code
111111	First Credit	sue.good@firstcredit.com	San Mateo	CA	94404	USA	1000000	CCD
111112	Second Credit	bill.smith@secondcredit.com	New York	NY	10577	USA	1500000	Net60
111113	Third Credit	mary.jones@thirdcredit.com	Toronto	QC	M4E 1B4	CA	2000000	Net20
111114	First Bank	amy.tangh@firstbank.com	St. Louis	MO	63105	USA	1700000	Net30

CustLocation

Cust_Loc_Key	Cust_Name	Cust_No	E_Mail_Address	City	State	Zip	Country	Cust_Key
1111111	First Credit	1	sue.good@firstcredit.com	San Mateo	CA	94404	USA	111111
1111112	First Credit	2	sue.good@firstcredit.com	San Francisco	CA	94407	USA	111111
1111121	Second Credit	1	bill.smith@secondcredit.com	New York	NY	10577	USA	111112
1111131	Third Credit	1	mary.jones@thirdcredit.com	Toronto	QC	M4E 1B4	CA	111113
1111132	Third Credit	2	ann.lee@thirdcredit.com	Cincinnati	OH	45236	USA	111113
1111121	First Bank	1	amy.tang@firstbank.com	St. Louis	MO	63105	USA	111114
1111122	First Bank	2	joe.slick@firstbank.com	St. Louis	MO	63107	USA	111114

SalesAgent

Sales_Agent_Id	Sales_Agent_Name	State	Country
1	Ron Jones	CO	USA
2	Tammy Ralston	BC	CA
3	Theo Jackson	GA	USA

Machine Type

Machine_Type_Id	Manufacturer	Model	Rate_Per_Hour	Number_Of_Machines
1	Connex	Connex M1	10	100
2	Remix	Remix M1	15	50
3	Connex	Connex M2	20	10
4	Remix	Remix M2	25	20

Time

Time_Id	Year	Quarter	Month	Day	Week
20130608	2013	2	6	8	23
20131205	2013	4	12	5	49
20131220	2013	4	12	20	51
20140101	2014	1	1	1	1
20140103	2014	1	1	3	1
20140105	2014	1	1	5	2
20140110	2014	1	1	10	2
20140115	2014	1	1	15	3
20140117	2014	1	1	17	3
20140124	2014	1	1	24	4
20140125	2014	1	1	25	4
20140131	2014	1	1	31	5
20140201	2014	1	2	1	5
20140202	2014	1	2	2	6
20140203	2014	1	2	3	6
20140215	2014	1	2	15	7
20140224	2014	1	2	24	9
20140228	2014	1	2	28	9
20140301	2014	1	3	1	9
20140314	2014	1	3	14	11
20140315	2014	1	3	15	11
20140331	2014	1	3	31	14
20140401	2014	2	4	1	14
20140430	2014	2	4	30	18
20140501	2014	2	5	1	18
20140517	2014	2	5	17	20
20140531	2014	2	5	31	22
20140601	2014	2	6	1	23
20140603	2014	2	6	3	23
20140615	2014	2	6	15	25
20140630	2014	2	6	30	27
20140701	2014	3	7	1	27

20140707	2014	3	7	7	28
20140731	2014	3	7	31	31
20140801	2014	3	8	1	31
20140810	2014	3	8	10	33
20140831	2014	3	8	31	36
20140901	2014	3	9	1	36
20140905	2014	3	9	5	36
20140915	2014	3	9	15	38
20140930	2014	3	9	30	40
20141001	2014	4	10	1	40
20141005	2014	4	10	5	41
20141031	2014	4	10	31	44
20141101	2014	4	11	1	44
20141120	2014	4	11	20	47
20141130	2014	4	11	30	49
20141201	2014	4	12	1	49
20141208	2014	4	12	8	50
20141215	2014	4	12	15	51
20141231	2014	4	12	31	53
20150103	2015	1	1	3	1
20150110	2015	1	1	10	2
20150125	2015	1	1	25	5
20150126	2015	1	1	26	5
20150202	2015	1	2	2	6
20150203	2015	1	2	3	6
20150213	2015	1	2	13	7
20150214	2015	1	2	14	7
20150215	2015	1	2	15	8
20150215	2015	1	2	15	8
20150224	2015	1	2	24	9
20150228	2015	1	2	28	9
20150303	2015	1	3	3	10
20150304	2015	1	3	4	10
20150315	2015	1	3	15	12
20150407	2015	2	4	7	15
20150410	2015	2	4	10	15
20150410	2015	2	4	10	15
20150411	2015	2	4	11	15
20150417	2015	2	4	17	16
20150501	2015	2	5	1	18
20150505	2015	2	5	5	19
20150510	2015	2	5	10	20
20150515	2015	2	5	15	20
20150529	2015	2	5	29	22
20150714	2015	3	7	14	29
20150820	2015	3	8	20	34

20150901	2015	3	9	1	36
20151017	2015	4	10	17	42
20151030	2015	4	10	30	44

Fact Tables are:
Leads

Lead_Id	Quote_Qty	Quote_Price	Quote_Value	Success	Created_Date	Cust_Key	Location_Name	Sales_Agent_Id	Sales_Class_Desc
555555	100000	1.1	107800	TRUE	20131205	111111	Denver HQ	1	Credit Card Smart
665556	200000	0.8	133000	TRUE	20141120	111112	Denver HQ	2	Credit Card Mag
690006	175000	0.7	118825	TRUE	20150417	111113	Montreal Plant	3	Debit Card Smart
734033	50000	1.5	73500	TRUE	20140810	111113	Atlanta Division	1	Credit Card Mag
633557	80000	1.5	114000	TRUE	20140517	111111	Atlanta Division	1	Credit Card Mag
756778	160000	1.3	195520	TRUE	20150714	111111	Atlanta Division	1	Credit Card Mag
333125	95000	0.9	83790	FALSE	20130608	111114	Denver HQ	3	Credit Card Mag
673125	115000	0.9	100395	FALSE	20140315	111112	Montreal Plant	2	Credit Card Smart

Sales(Summary)

Summary_Sales_Id	Actual_Units	Actual_Amount	Forecast_Units	Forecast_Amount	Location_Name	Sales_Class_Desc	Begin_Date	End_Date
1	759,000	$993,800	10,000,000.00	$13,500,000	Denver HQ	Credit Card Smart	20140101	20140131
2	1,636,000	1,883,800	10,000,000.00	$13,500,000	Denver HQ	Credit Card Smart	20140201	20140228
3	2,323,000	3,103,800	10,000,000.00	$13,500,000	Denver HQ	Credit Card Smart	20140301	20140331
4	2,892,000	3,896,800	10,000,000.00	$13,500,000	Denver HQ	Credit Card Smart	20140401	20140430

														20140531
5	3,769,000	5,116,800	10,000,000.00	$13,500,000	Denver HQ	Credit Card Smart	20140501	
6	4,646,000	6,336,800	10,000,000.00	$13,500,000	Denver HQ	Credit Card Smart	20140601	20140630
7	5,523,000	7,556,800	10,000,000.00	$13,500,000	Denver HQ	Credit Card Smart	20140701	20140731
8	6,400,000	8,776,800	10,000,000.00	$13,500,000	Denver HQ	Credit Card Smart	20140801	20140831
9	7,277,000	9,996,800	10,000,000.00	$13,500,000	Denver HQ	Credit Card Smart	20140901	20140930
10	8,154,000	11,216,800	10,000,000.00	$13,500,000	Denver HQ	Credit Card Smart	20141001	20141031
11	9,031,000	12,436,800	10,000,000.00	$13,500,000	Denver HQ	Credit Card Smart	20141101	20141130
12	9,908,000	13,656,800	10,000,000.00	$13,500,000	Denver HQ	Credit Card Smart	20141201	20141231

Cost(Summary)

Summary_Cost_Id	Actual_Units	Actual_Labor_Cost	Actual_Material_Cost	Actual_Overhead_Cost	Actual_Machine_Cost	Budget_Units	Budget_Labor_Cost	Budget_Material_Cost	Budget_Overhead_Cost	Budget_Machine_Cost	Location_Name	Machine_Type_Id	Sales_Class_Desc	Begin_Date	End_Date
1	1,125,000	$326,250	$191,250	$135,000	$202,500	13,500,000	$3,915,000.0	$2,295,000	$1,620,000	$2,430,000	Denver HQ	1	Credit Card Smart	20140101	20140131
2	2,081,250	$603,563	$353,813	$249,750	$374,625	13,500,000	$3,915,000.0	$2,295,000	$1,620,000	$2,430,000	Denver HQ	1	Credit Card Smart	20140201	20140228
3	3,037,500	$880,875	$516,375	$364,500	$546,750	13,500,000	$3,915,000.0	$2,295,000	$1,620,000	$2,430,000	Denver HQ	1	Credit Card Smart	20140301	20140331

4	3,993,750	$1,158,188	$678,938	$479,250	$718,875	13,500,000	$3,915,000.0	$2,295,000	$1,620,000	$2,430,000	Denver HQ	1	Credit Card Smart	20140401	20140430
5	4,950,000	$1,435,500	$841,500	$594,000	$891,000	13,500,000	$3,915,000.0	$2,295,000	$1,620,000	$2,430,000	Denver HQ	1	Credit Card Smart	20140501	20140531
6	5,906,250	$1,712,813	$1,004,063	$708,750	$1,063,125	13,500,000	$3,915,000.0	$2,295,000	$1,620,000	$2,430,000	Denver HQ	1	Credit Card Smart	20140601	20140630
7	6,862,500	$1,990,125	$1,166,625	$823,500	$1,235,250	13,500,000	$3,915,000.0	$2,295,000	$1,620,000	$2,430,000	Denver HQ	1	Credit Card Smart	20140701	20140731
8	8,043,750	$2,332,688	$1,367,438	$965,250	$1,447,875	13,500,000	$3,915,000.0	$2,295,000	$1,620,000	$2,430,000	Denver HQ	1	Credit Card Smart	20140801	20140831
9	9,000,000	$2,610,000	$1,530,000	$1,080,000	$1,620,000	13,500,000	$3,915,000.0	$2,295,000	$1,620,000	$2,430,000	Denver HQ	1	Credit Card Smart	20140901	20140930
10	10,091,250	$2,926,463	$1,715,513	$1,210,950	$1,816,425	13,500,000	$3,915,000.0	$2,295,000	$1,620,000	$2,430,000	Denver HQ	1	Credit Card Smart	20141001	20141031
11	11,047,500	$3,203,775	$1,878,075	$1,325,700	$1,988,550	13,500,000	$3,915,000.0	$2,295,000	$1,620,000	$2,430,000	Denver HQ	1	Credit Card Smart	20141101	20141130
12	12,150,000	$3,523,500	$2,065,500	$1,458,000	$2,187,000	13,500,000	$3,915,000.0	$2,295,000	$1,620,000	$2,430,000	Denver HQ	1	Credit Card Smart	20141201	20141231

Invoice

Invoice_Id	Date_Due	Date_Invoiced	Invoice_Amount	Cust_Key	Invoice_Quantity	Invoice_Shipped
111111	20140215	20140124	37500	111111	25400	25500

111112	20140314	20140224	9000	111111	9000	9000
111113	20150310	20150224	42500	111112	30900	32000

Job

Job_Id	Number_SubJobs	Contract_Date	Date_Promised	Unit_Price	Quantity_Ordered	Quotation_Amount	Quotation_Quantity	Location_name	Sales_Class_Desc	Sales_Agent_Id	Cust_Key
111111	5	20140103	20140301	1.1	100000	107800	100000	Denver HQ	Credit Card Smart	1	111111
222222	4	20150103	20150303	0.8	200000	152000	200000	Denver HQ	Credit Card Mag	2	111112
333333	6	20150403	20150515	0.7	150000	118825	175000	Montreal Plant	Debit Card Smart	3	111113
444444	3	20140603	20140915	1.5	50000	73500	50000	London Plant	Debit Card Smart	3	111113
555555	4	20141005	20141215	1.5	75000	114000	80000	Atlanta Division	Credit Card Mag	1	111111
666666	6	20150501	20150901	1.3	160000	195520	160000	Atlanta Division	Credit Card Mag	1	111111

SubJob

Job_Id	Sub_Job_Id	Cost_Labor	Cost_Material	Cost_Overhead	Machine_Hours	Date_Prod_Begin	Date_Prod_End	Quantity_Produced	Machine_Type_Id
111111	1	7000	5000	200	10	20140105	2014017	20000	1
111111	2	8000	5500	300	15	20140125	20140215	30000	2
222222	1	9000	6600	400	17	20150110	20150214	35000	3
222222	2	8500	6000	450	20	20150125	20150228	35000	2

333333	1	7500	5600	300	20	20150407	20150410	25000	3
444444	1	6500	4200	300	15	20140615	20140707	20000	1

Shipment

Shipment_Id	Actual_Ship_Date	Requested_Ship_Date	Actual_Quantity	Requested_Quantity	Boxes	Quantity_Per_Box	Quantity_Per_Partial_Box	Shipment_Amount	Job_Id	Subjob_Id	Invoice_id	Cust_Loc_Key
111111	20140115	20140110	10000	10000	10	1000	0	15000	111111	1	111111	1111111
111112	20140117	20140117	15500	15500	15	1000	500	22500	111111	1	111111	1111112
111113	20140202	20140203	10000	10000	3	3000	1000	9000	111111	2	111112	1111111
111114	20150126	20150125	10000	10000	6	1500	1000	13500	222222	1	111113	1111121
111115	20150202	20150203	10000	10000	6	1500	1000	13500	222222	1	111113	1111121
111116	20150215	20150213	15000	12000	8	1400	800	15500	222222	2	111113	1111121
111117	20150410	20150411	10000	10000	7	1500	500	7000	333333	1	NULL	1111131