Module 3 SSRS: 20 Points

Entry criteria: The new target system - DWH is created in Module 2

1. Using the newly created DWH - SQL Server, generate different reports

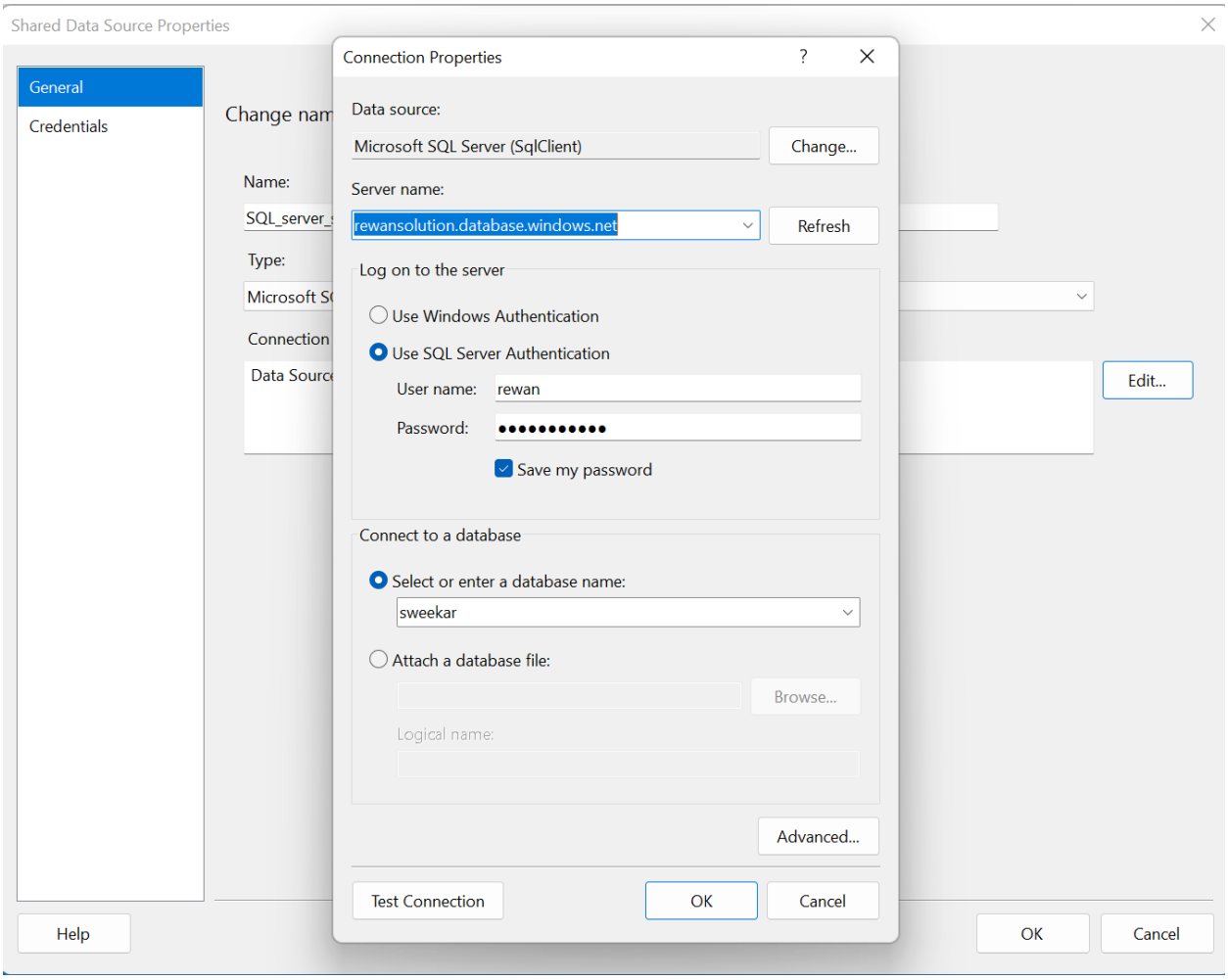
a) Dashboard

b) Reports

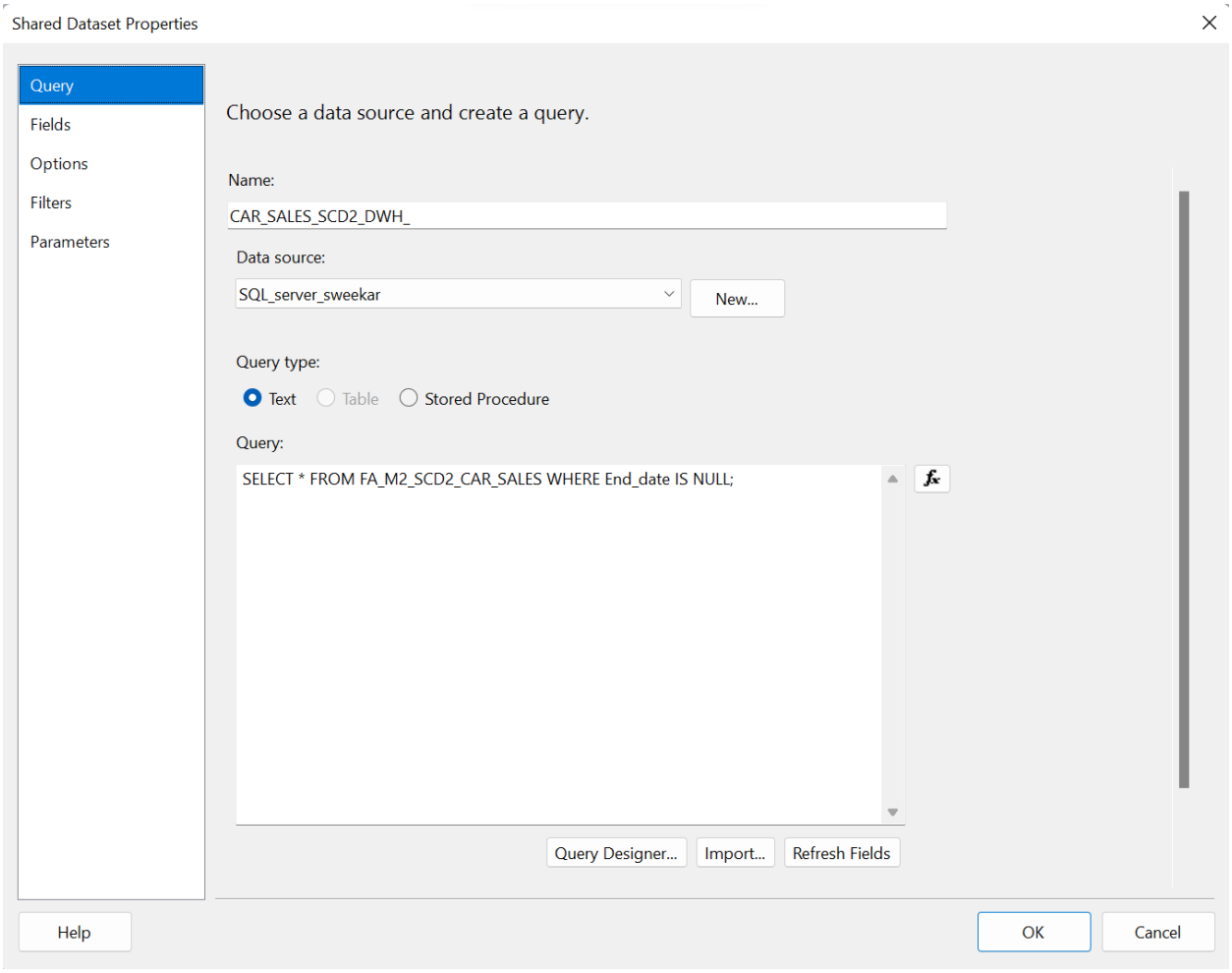
Apply the filter on Dashboard and report level. Create meaningful reports

Ex: Sales forecast, Loan's overview etc.

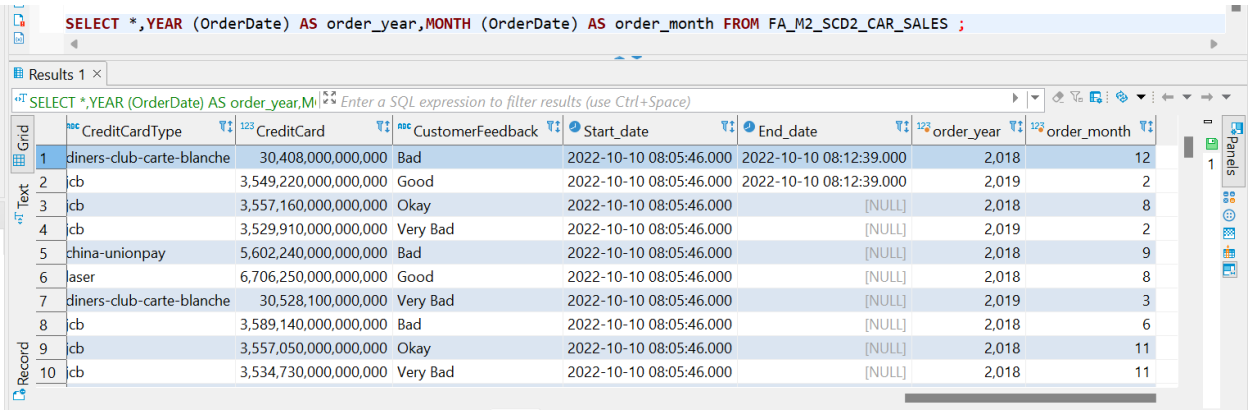
First I added a Shared datasource to the reporting project.



I have taken the target table of the SCD2 performed in SSIS, when we give the below SQL query all the active records are fetched to generate the report.



To predict the sales throughout the year, I have extracted the year and month from the order date.

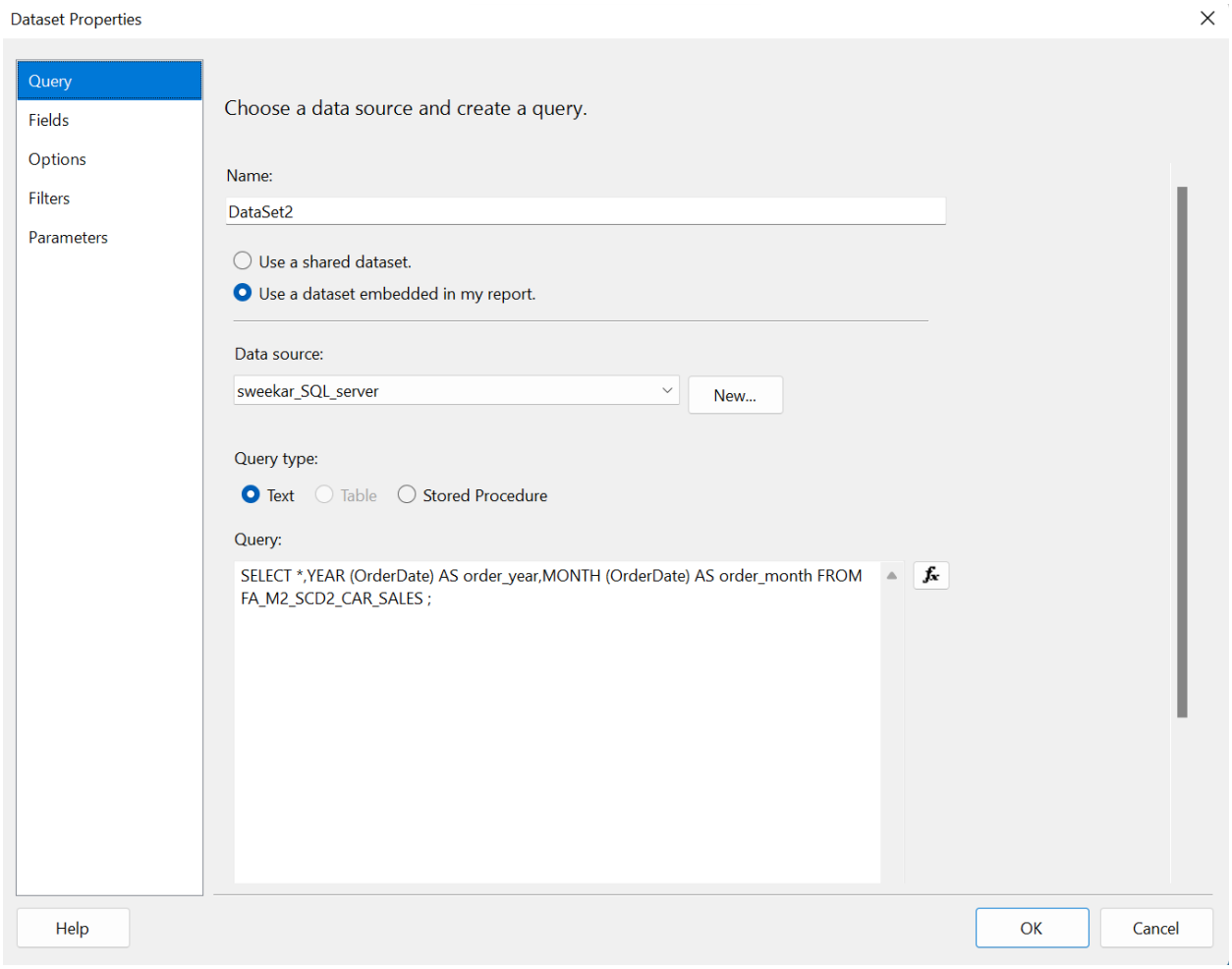


```
SELECT *,YEAR (OrderDate) AS order_year,MONTH (OrderDate) AS order_month FROM FA_M2_SCD2_CAR_SALES ;
```

Results 1

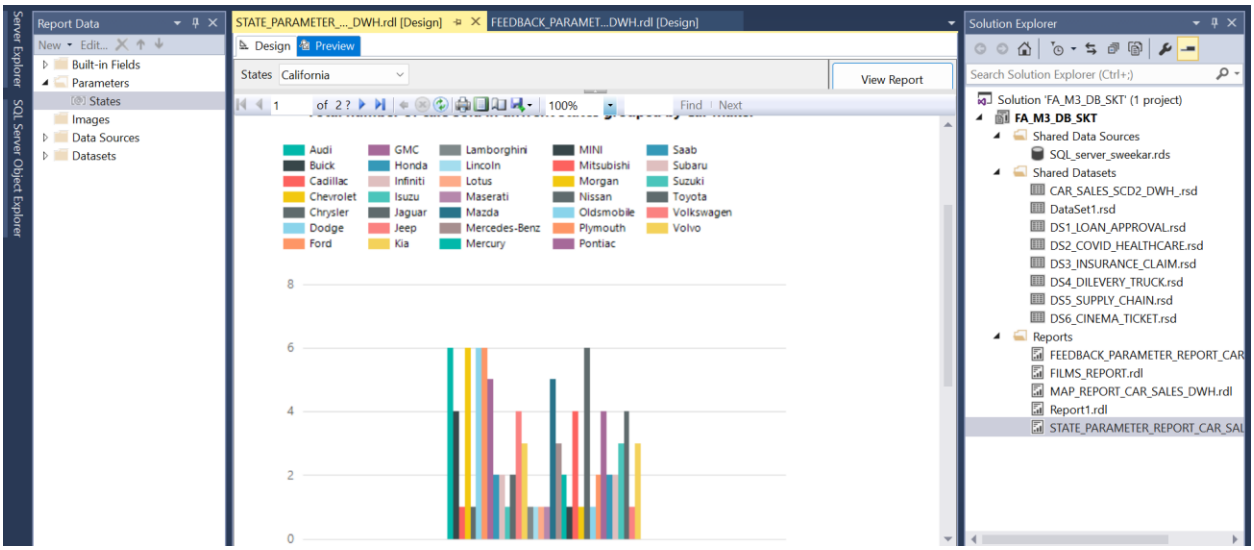
SELECT *,YEAR (OrderDate) AS order_year,M... Enter a SQL expression to filter results (use Ctrl+Space)

	CreditCardType	CreditCard	CustomerFeedback	Start_date	End_date	order_year	order_month
1	diners-club-carte-blanche	30,408,000,000,000	Bad	2022-10-10 08:05:46.000	2022-10-10 08:12:39.000	2,018	12
2	jcb	3,549,220,000,000,000	Good	2022-10-10 08:05:46.000	2022-10-10 08:12:39.000	2,019	2
3	jcb	3,557,160,000,000,000	Okay	2022-10-10 08:05:46.000	[NULL]	2,018	8
4	jcb	3,529,910,000,000,000	Very Bad	2022-10-10 08:05:46.000	[NULL]	2,019	2
5	china-unionpay	5,602,240,000,000,000	Bad	2022-10-10 08:05:46.000	[NULL]	2,018	9
6	laser	6,706,250,000,000,000	Good	2022-10-10 08:05:46.000	[NULL]	2,018	8
7	diners-club-carte-blanche	30,528,100,000,000	Very Bad	2022-10-10 08:05:46.000	[NULL]	2,019	3
8	jcb	3,589,140,000,000,000	Bad	2022-10-10 08:05:46.000	[NULL]	2,018	6
9	jcb	3,557,050,000,000,000	Okay	2022-10-10 08:05:46.000	[NULL]	2,018	11
10	jcb	3,534,730,000,000,000	Very Bad	2022-10-10 08:05:46.000	[NULL]	2,018	11

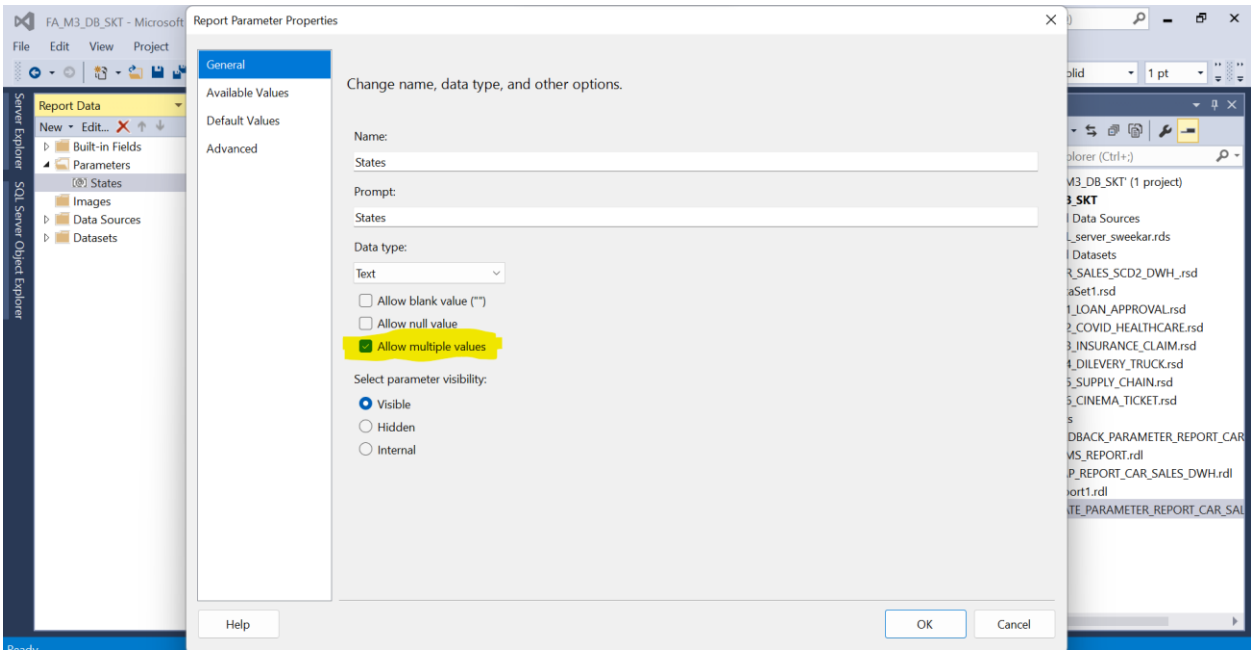

Dataset Properties
Query
Fields
Options
Filters
Parameters
Choose a data source and create a query.
Name:
DataSet2
Use a shared dataset.
Use a dataset embedded in my report.
Data source:
sweekar_SQL_server
New...
Query type:
Text
Table
Stored Procedure
Query:
SELECT *,YEAR (OrderDate) AS order_year,MONTH (OrderDate) AS order_month FROM FA_M2_SCD2_CAR_SALES ;
Help
OK
Cancel

Second report – I have considered that an auditing company has to review the state wise car sales, so I have created a report that could be helpful for this situation.

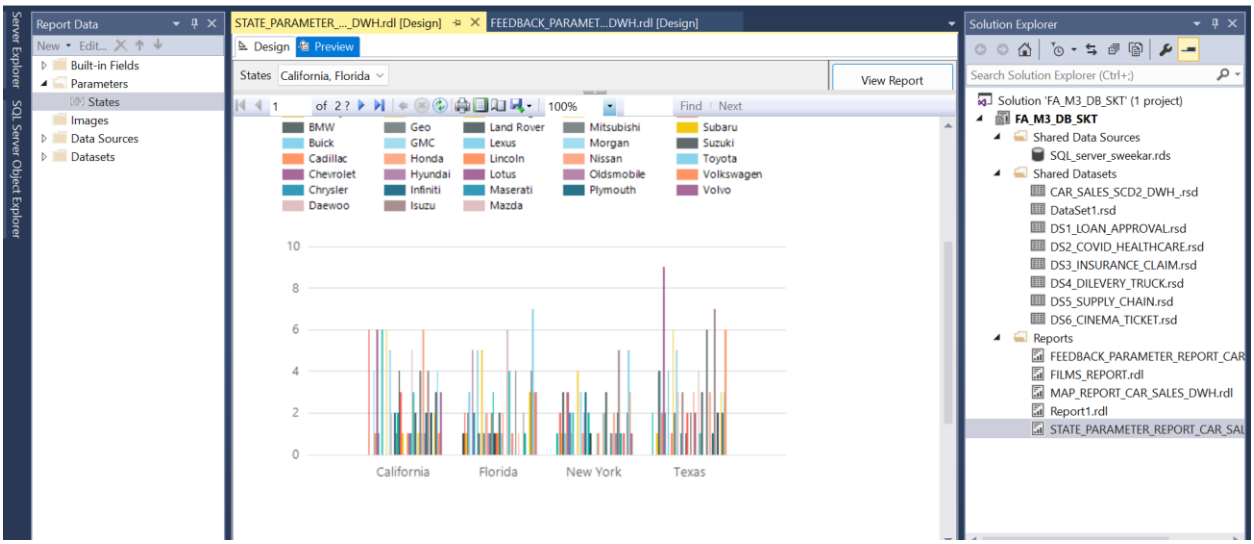
In this report I have grouped by the state and added the unique state parameter so that each states data can be viewed separately(don't allow multiple values in parameter).



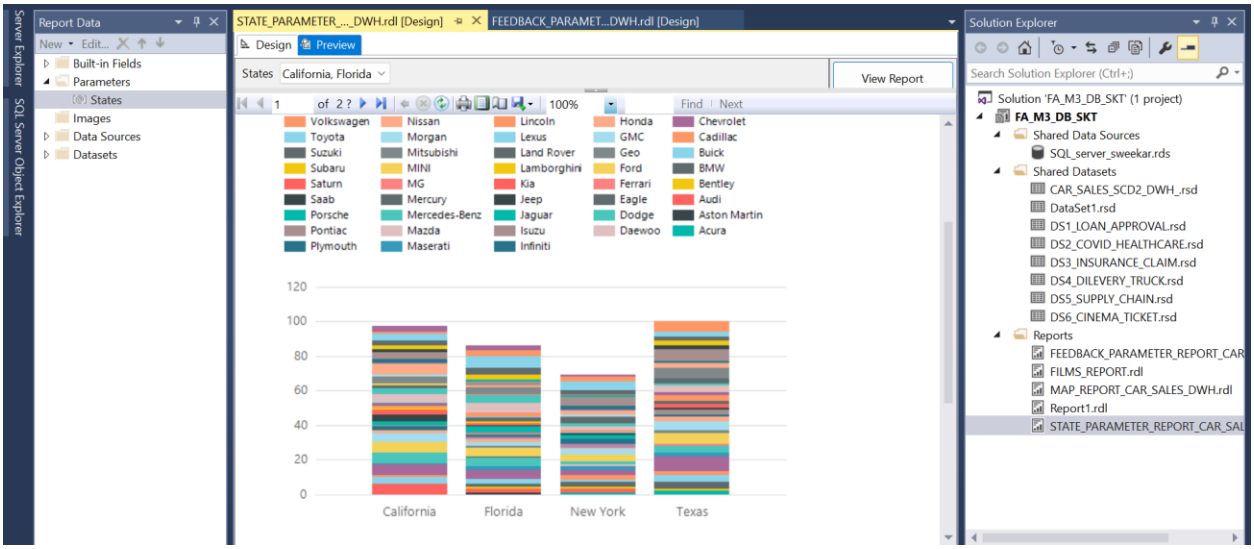
We can also have multiple states if we want to compare them(by allowing multiple values in paramerter)



But now if add many states the graph becomes difficult to read



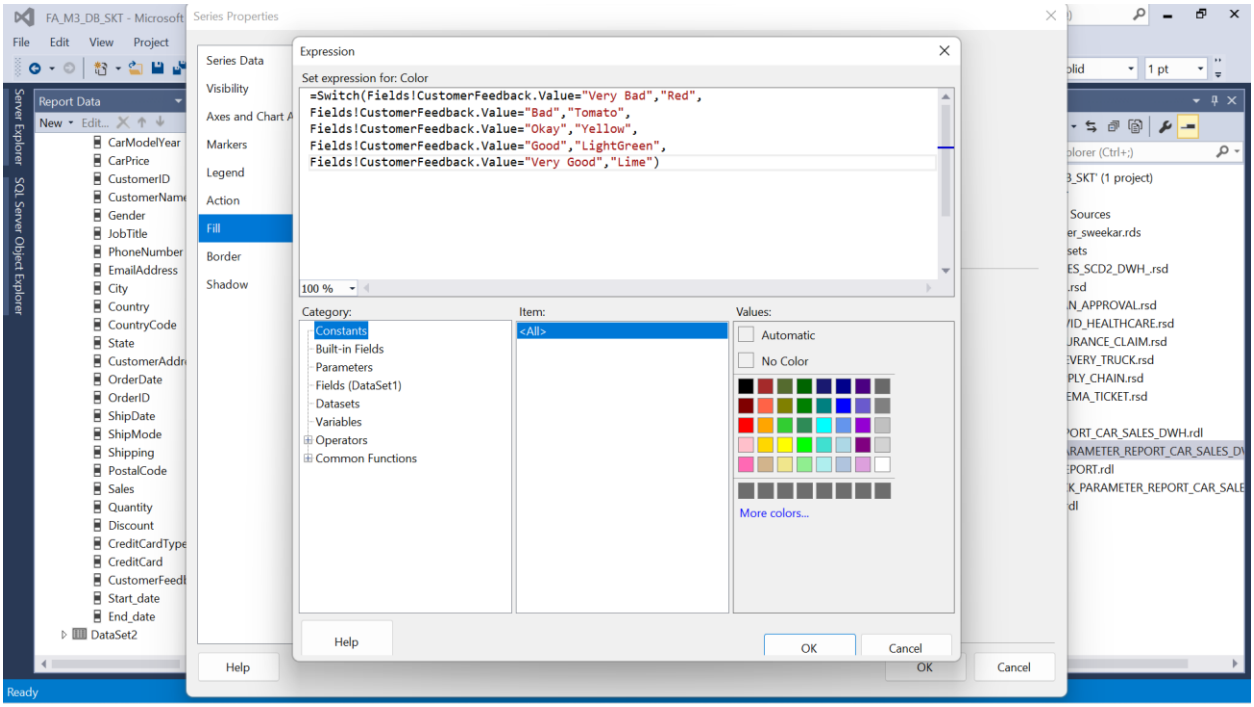
So to resolve this we can use a stacked column chart as shown below.

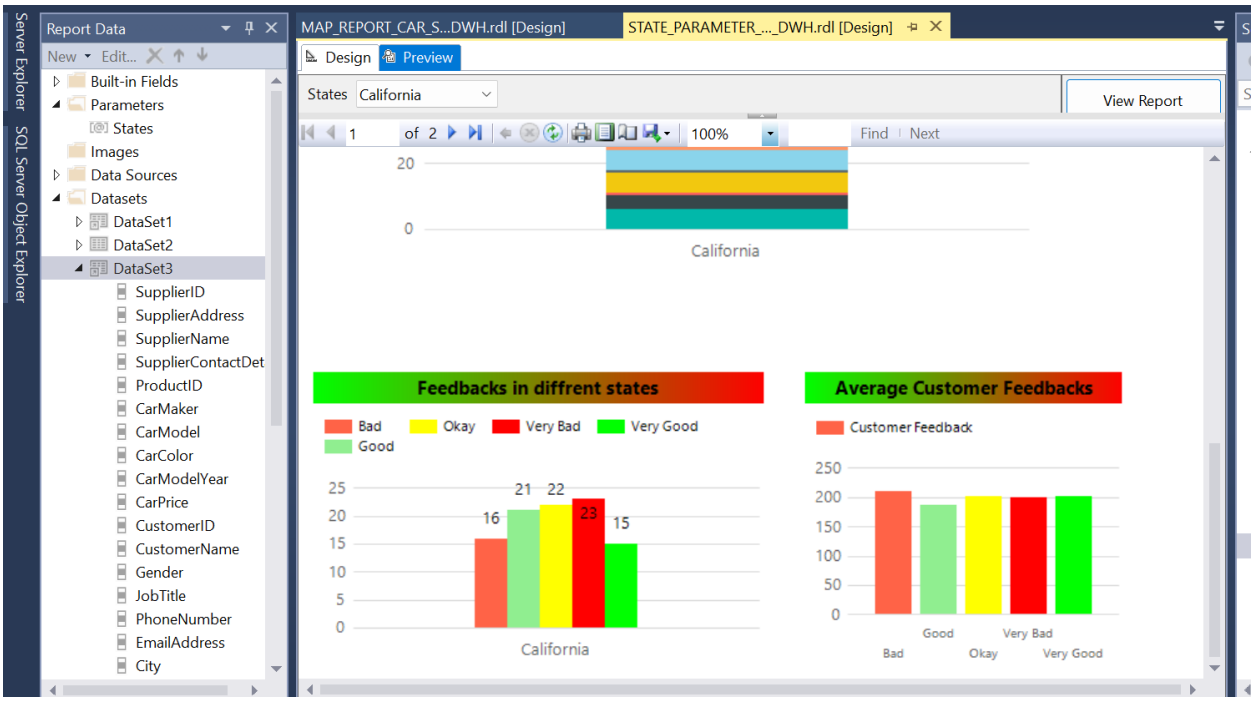


I am trying to compare the feedbacks of different states to the average feedback. Therefore, I have added a column chart and grouped states by column group and feedbacks by the series group.

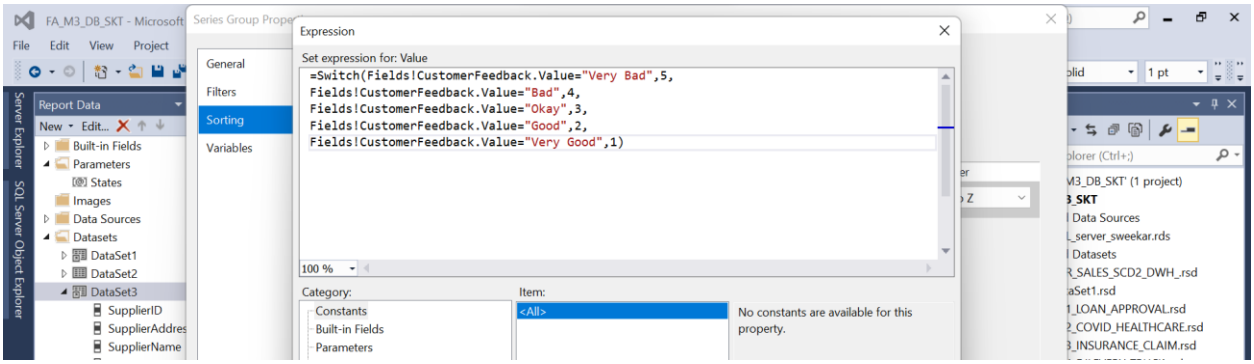
I have also added an average feedback chart of the

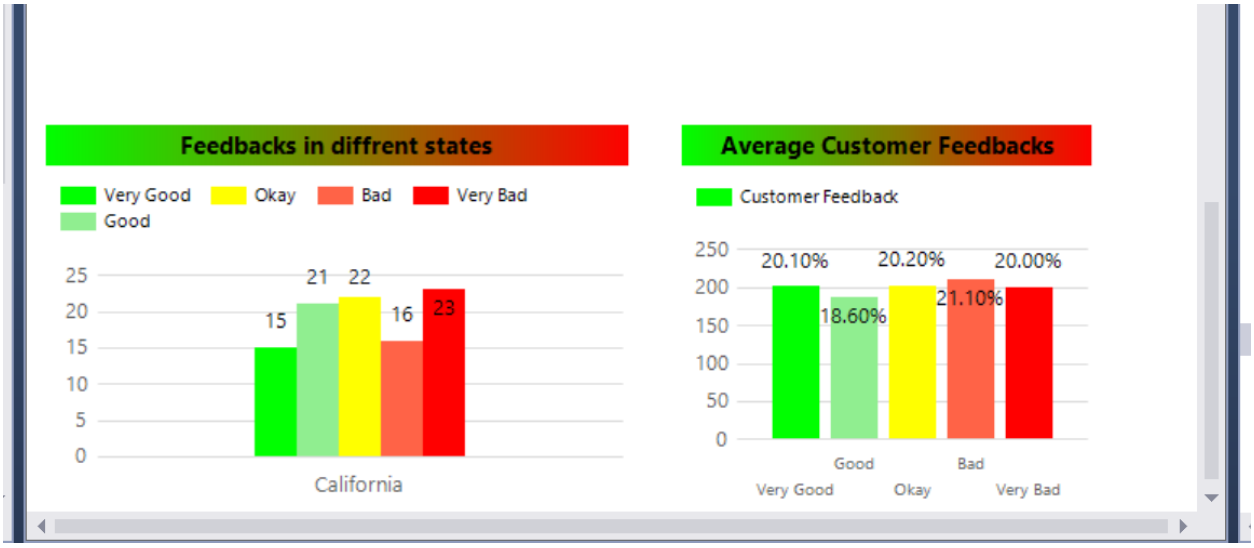
The above chart has automatically assigned colors to different groups, so if we want to change the color according tom our requirement we can add the below expression by going to the series properties and then going to the fill expression and give the colors according to our requirement.





If we need to custom order(Very Bad to Very Good) then we can use the following expression by going to group properties and sort expression.





If we want to compare the feedback date of multiple states, we can do the same thing which done to the first chart which is taking a stacked table.