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PROG8400 - 21W – Sec 1

Relational Database Design

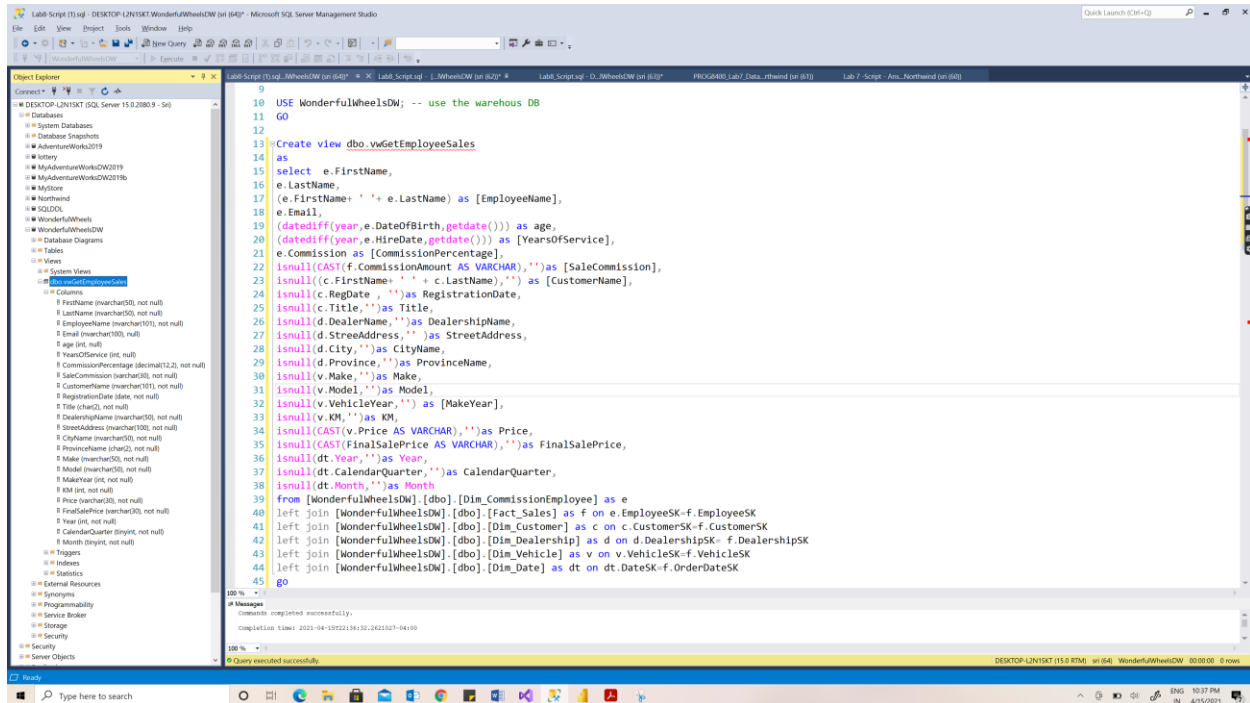
Lab - 08

Data Warehouse & BI

April 16, 2021

Step 1 – Employee Sales Report

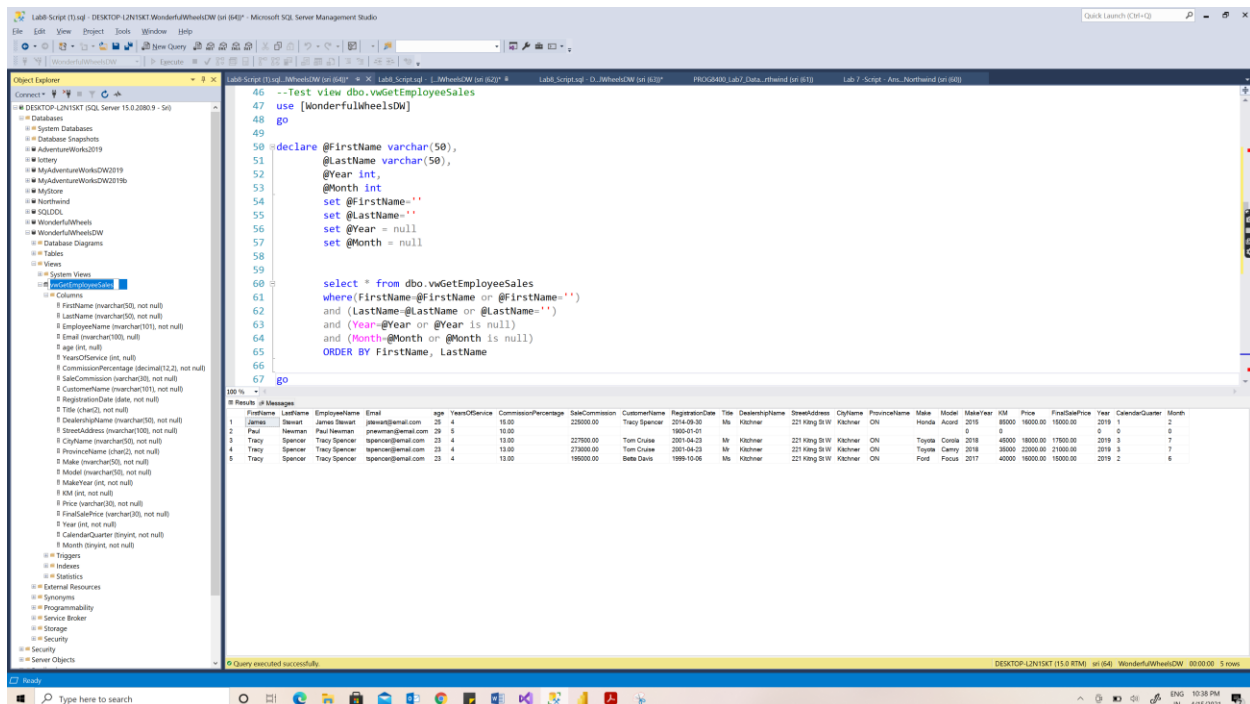
Create main view that is used to display data in report and test it.



```
USE WonderfulWheelsDW; -- use the warehouse DB
GO

Create view dbo.vwGetEmployeeSales
as
select e.FirstName,
e.LastName,
(e.FirstName+ ' ' + e.LastName) as [EmployeeName],
e.Email,
(datediff(year,e.DateOfBirth,getdate())) as age,
(datediff(year,e.HireDate,getdate())) as [YearsOfService],
e.Commission as [CommissionPercentage],
isnull(cast(f.CommissionAmount AS VARCHAR),'') as [SaleCommission],
isnull((c.FirstName+ ' ' + c.LastName),'') as [CustomerName],
isnull(c.RegDate, '') as RegistrationDate,
isnull(c.Title,'') as Title,
isnull(d.DealerName,'') as DealershipName,
isnull(d.StreetAddress,'') as StreetAddress,
isnull(d.City,'') as CityName,
isnull(d.Province,'') as ProvinceName,
isnull(v.Make,'') as Make,
isnull(v.Model,'') as Model,
isnull(v.VehicleYear,'') as [MakeYear],
isnull(v.KM,'') as KM,
isnull(cast(v.Price AS VARCHAR),'') as Price,
isnull(cast(FinalSalePrice AS VARCHAR),'') as FinalSalePrice,
isnull(dt.Year,'') as Year,
isnull(dt.CalendarQuarter,'') as CalendarQuarter,
isnull(dt.Month,'') as Month
from [WonderfulWheelsDW].[dbo].[Dim_CommissionEmployee] as e
left join [WonderfulWheelsDW].[dbo].[Fact_Sales] as f on e.EmployeeSK=f.EmployeeSK
left join [WonderfulWheelsDW].[dbo].[Dim_Customer] as c on c.CustomerSK=f.CustomerSK
left join [WonderfulWheelsDW].[dbo].[Dim_Dealership] as d on d.DealershipSK= f.DealershipSK
left join [WonderfulWheelsDW].[dbo].[Dim_Vehicle] as v on v.VehicleSK=f.VehicleSK
left join [WonderfulWheelsDW].[dbo].[Dim_Date] as dt on dt.DateSK=f.OrderDateSK
go
```

Test View



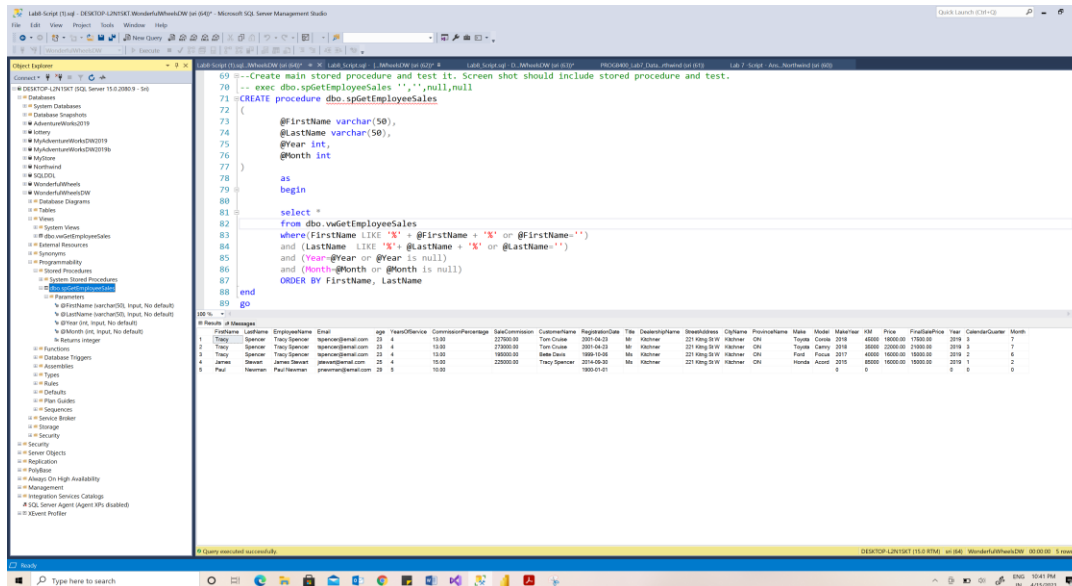
```
--Test view dbo.vwGetEmployeeSales
use [WonderfulWheelsDW]
go

declare @FirstName varchar(50),
@LastName varchar(50),
@Year int,
@Month int
set @FirstName=' '
set @LastName=' '
set @Year = null
set @Month = null

select * from dbo.vwGetEmployeeSales
where (FirstName=@FirstName or @FirstName='')
and (LastName=@LastName or @LastName='')
and (Year=@Year or @Year is null)
and (Month=@Month or @Month is null)
ORDER BY FirstName, LastName
go
```

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800	801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	820	821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839	840	841	842	843	844	845	846	847	848	849	850	851	852	853	854	855	856	857	858	859	860	861	862	863	864	865	866	867	868	869	870	871	872	873	874	875	876	877	878	879	880	881	882	883	884	885	886	887	888	889	890	891	892	893	894	895	896	897	898	899	900	901	902	903	904	905	906	907	908	909	910	911	912	913	914	915	916	917	918	919	920	921	922	923	924	925	926	927	928	929	930	931	932	933	934	935	936	937	938	939	940	941	942	943	944	945	946	947	948	949	950	951	952	953	954	955	956	957	958	959	960	961	962	963	964	965	966	967	968	969	970	971	972	973	974	975	976	977	978	979	980	981	982	983	984	985	986	987	988	989	990	991	992	993	994	995	996	997	998	999	1000
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2. Create main stored procedure and test it.



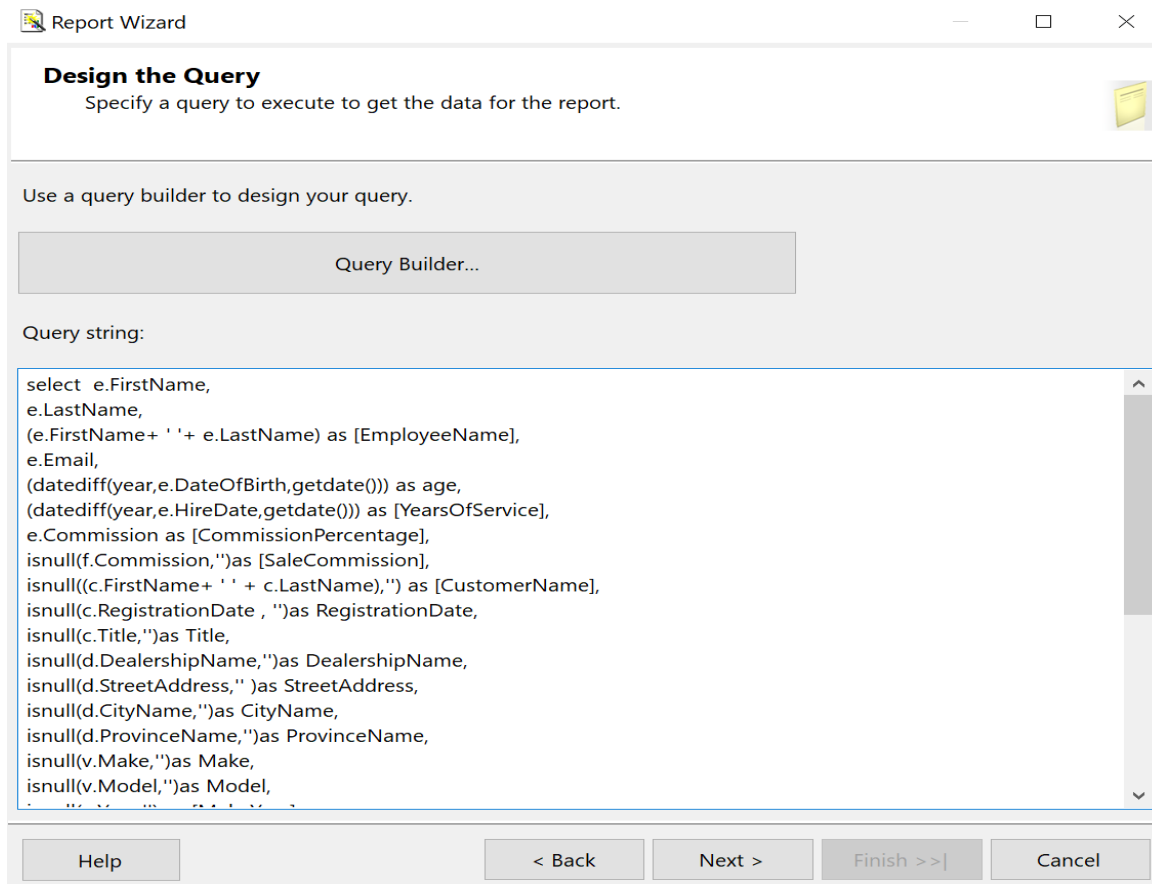
The screenshot shows the SQL Server Enterprise Manager interface. The left pane displays the 'Object Explorer' with the 'Stored Procedures' folder expanded. The right pane shows the 'Script' window with the following T-SQL code:

```
-- Create main stored procedure and test it. Screen shot should include stored procedure and test.
-- exec dbo.spGetEmployeeSales '','','',null,null
-- CREATE procedure dbo.spGetEmployeeSales
(
    @FirstName varchar(50),
    @LastName varchar(50),
    @Year int,
    @Month int
)
as
begin
    select *
    from dbo.vwGetEmployeeSales
    where (FirstName LIKE '%'+@FirstName+'%' or @FirstName='')
    and (LastName LIKE '%'+@LastName+'%' or @LastName='')
    and (@Year=@Year or @Year is null)
    and (@Month=@Month or @Month is null)
    ORDER BY FirstName, LastName
end
go
```

Below the script, the 'Results' pane shows a table with 15 columns: FirstName, LastName, EmployeeName, Email, Age, YearsOfService, CommissionPercentage, SaleCommission, CustomerName, RegistrationDate, Title, DealershipName, StreetAddress, CityName, ProvinceName, Make, Model, MakeYear, KM, Price, FuelEffPrice, Year, CalendarQuarter, Month. The table contains 5 rows of data.

3. Show major steps in report development. How did you create datasets, parameters, and default values?

3.1 Report Wizard:



The screenshot shows the 'Report Wizard' dialog box, specifically the 'Design the Query' step. The text 'Specify a query to execute to get the data for the report.' is displayed. Below this, there is a section titled 'Use a query builder to design your query.' with a button labeled 'Query Builder...'. Below that, the 'Query string:' label is followed by a text area containing the following SQL query:

```
select e.FirstName,
e.LastName,
(e.FirstName+ ' ' + e.LastName) as [EmployeeName],
e.Email,
(datediff(year,e.DateOfBirth,getdate())) as age,
(datediff(year,e.HireDate,getdate())) as [YearsOfService],
e.Commission as [CommissionPercentage],
isnull(f.Commission,'')as [SaleCommission],
isnull((c.FirstName+ ' ' + c.LastName),'') as [CustomerName],
isnull(c.RegistrationDate , '')as RegistrationDate,
isnull(c.Title,'')as Title,
isnull(d.DealershipName,'')as DealershipName,
isnull(d.StreetAddress,'')as StreetAddress,
isnull(d.CityName,'')as CityName,
isnull(d.ProvinceName,'')as ProvinceName,
isnull(v.Make,'')as Make,
isnull(v.Model,'')as Model,
```

At the bottom of the dialog, there are four buttons: 'Help', '< Back', 'Next >', and 'Finish >>|'. The 'Finish >>|' button is highlighted.

Completing the Wizard

Provide a name and click Finish to create the new report.

Report name:

Employee_Sales_Report

Report summary:

Data source: DataSource1

Connection string: Data Source=DESKTOP-L2N1SKT;Initial Catalog=WonderfulWheelsDW

Report type: Table

Layout type: Stepped

Style: Modern

Details: FirstName, LastName, EmployeeName, Email, age, YearsOfService, CommissionPercentage, SaleCommission, CustomerName, RegistrationDate, Title, DealershipName, StreetAddress, CityName, ProvinceName, Make, Model, MakeYear, KM, Price, FinalSalePrice, Year, CalendarQuarter, Month

Query: select e.FirstName,
e.LastName,
(e.FirstName+ ' ' + e.LastName) as [EmployeeName],
e.Email

☐ Preview report

Help

< Back

Next >

Finish

Cancel

Visual Studio 2019 interface showing the Report Wizard completion screen. The report is named "Employee Sales Report" and is based on "DataSource1". The query is displayed in the "Query" field. The "Preview" tab is selected, showing a table with columns: First Name, Last Name, Employee N, Email, age, Years Of Ser, Commissio, Sale Commi, Customer N, Registration, Title, Dealership, Street Adre, City Name, Province Na, Make, Model. The table is previewed with data from the "WonderfulWheelsSales" database. The "Properties" window on the right shows the report's location and name.

First Name	Last Name	Employee N	Email	age	Years Of Ser	Commissio	Sale Commi	Customer N	Registration	Title	Dealership	Street Adre	City Name	Province Na	Make	Model
[FirstName]	[LastName]	[EmployeeName]	[Email]	[age]	[YearsOfService]	[CommissionPe]	[SaleCommissi]	[CustomerName]	[RegistrationDa]	[Title]	[DealershipPlan]	[StreetAddress]	[CityName]	[ProvinceName]	[Make]	[Model]

Row Groups: [Table1.Details, Group]

Column Groups: [Table1.Details, Group]

Developer PowerShell

```
PS C:\Users\karth\source\repos\Report2>
PS C:\Users\karth\source\repos\Report2>
```

Properties window: WonderfulWheelsSales, Report.Sri

Location: C:\Users\karth\source\repos\Report2\Report2>

Name: WonderfulWheelsSales, Report.Sri

3.2 Create Dataset and set properties:

Dataset Properties

Query

Fields

Options

Filters

Parameters

Choose a data source and create a query.

Name:
DataSet1

☐ Use a shared dataset.
☒ Use a dataset embedded in my report.

Data source:
DataSource1 New...

Query type:
☐ Text ☐ Table ☒ Stored Procedure

Select or enter stored procedure name:
spGetEmployeeSales Query Designer... Refresh Fields

Time out (in seconds):
0

Help OK Cancel

Dataset1 Properties

Dataset Properties

Query

Fields

Options

Filters

Parameters

Choose query parameter values.

Add Delete

Parameter Name	Parameter Value
@FirstName	[@FirstName]
@LastName	[@LastName]
@Year	[@Year]
@Month	[@Month]

Help OK Cancel

Create Dataset SalesYear :

Dataset Properties

Query

Fields

Options

Filters

Parameters

Choose a data source and create a query.

Name: SalesYear

☐ Use a shared dataset.

☒ Use a dataset embedded in my report.

Data source: DataSource1 New...

Query type: ☒ Text ☐ Table ☐ Stored Procedure

Query:

```
select distinct null as value, 'All' as Label, 0 as sortOrder
union
select Distinct [year] as value, cast([Year] as varchar(4)) as Label,1
from [dbo].[Dim_Date]
order by sortOrder, Label
```

Query Designer... Import... Refresh Fields

Time out (in seconds): 0

Help OK Cancel

Create Dataset SalesMonth:

Dataset Properties

Query

Fields

Options

Filters

Parameters

Choose a data source and create a query.

Name: SalesMonth

☐ Use a shared dataset.

☒ Use a dataset embedded in my report.

Data source: DataSource1 New...

Query type: ☒ Text ☐ Table ☐ Stored Procedure

Query:

```
select distinct null as value, 'All' as Label, 0 as sortOrder
union
select Distinct [Month] as value, cast([Month] as varchar(2)) as Label,1
from [dbo].[Dim_Date]
order by sortOrder, Label
```

Query Designer... Import... Refresh Fields

Time out (in seconds): 0

Help OK Cancel

Create Dataset DefaultYear:

Dataset Properties

Query

Fields

Options

Filters

Parameters

Choose a data source and create a query.

Name:
DefaultYear

☐ Use a shared dataset.
☒ Use a dataset embedded in my report.

Data source:
DataSource1 New...

Query type:
☒ Text ☐ Table ☐ Stored Procedure

Query:
SELECT year(getdate())

Time out (in seconds):
0

Query Designer... Import... Refresh Fields

Help OK Cancel

Create Dataset DefaultMonth:

Dataset Properties

Query

Fields

Options

Filters

Parameters

Choose a data source and create a query.

Name:
DefaultMonth

☐ Use a shared dataset.
☒ Use a dataset embedded in my report.

Data source:
DataSource1 New...

Query type:
☒ Text ☐ Table ☐ Stored Procedure

Query:
SELECT month(getdate())

Time out (in seconds):
0

Query Designer... Import... Refresh Fields

Help OK Cancel

3.3 Create Parameter FirstName:

Report Parameter Properties

General

Available Values

Default Values

Advanced

Change name, data type, and other options.

Name:
FirstName

Prompt:
First Name

Data type:
Text

☒ Allow blank value ("")

☐ Allow null value

☐ Allow multiple values

Select parameter visibility:

☒ Visible

☐ Hidden

☐ Internal

Help OK Cancel

Create Parameter LastName:

Report Parameter Properties

General

Available Values

Default Values

Advanced

Change name, data type, and other options.

Name:
LastName

Prompt:
Last Name

Data type:
Text

☒ Allow blank value ("")

☐ Allow null value

☐ Allow multiple values

Select parameter visibility:

☒ Visible

☐ Hidden

☐ Internal

Help OK Cancel

Create Parameter Year (Dropdown list)

Report Parameter Properties

General

Available Values

Default Values

Advanced

Change name, data type, and other options.

Name:
Year

Prompt:
Year

Data type:
Text

☐ Allow blank value ("")

☒ Allow null value

☐ Allow multiple values

Select parameter visibility:

☒ Visible

☐ Hidden

☐ Internal

Help OK Cancel

Get value for Year Parameter from Dataset (Dropdown list)

Report Parameter Properties

General

Available Values

Default Values

Advanced

Choose the available values for this parameter.

Select from one of the following options:

☐ None

☐ Specify values

☒ Get values from a query

Dataset: (Warning: Possible performance impact)

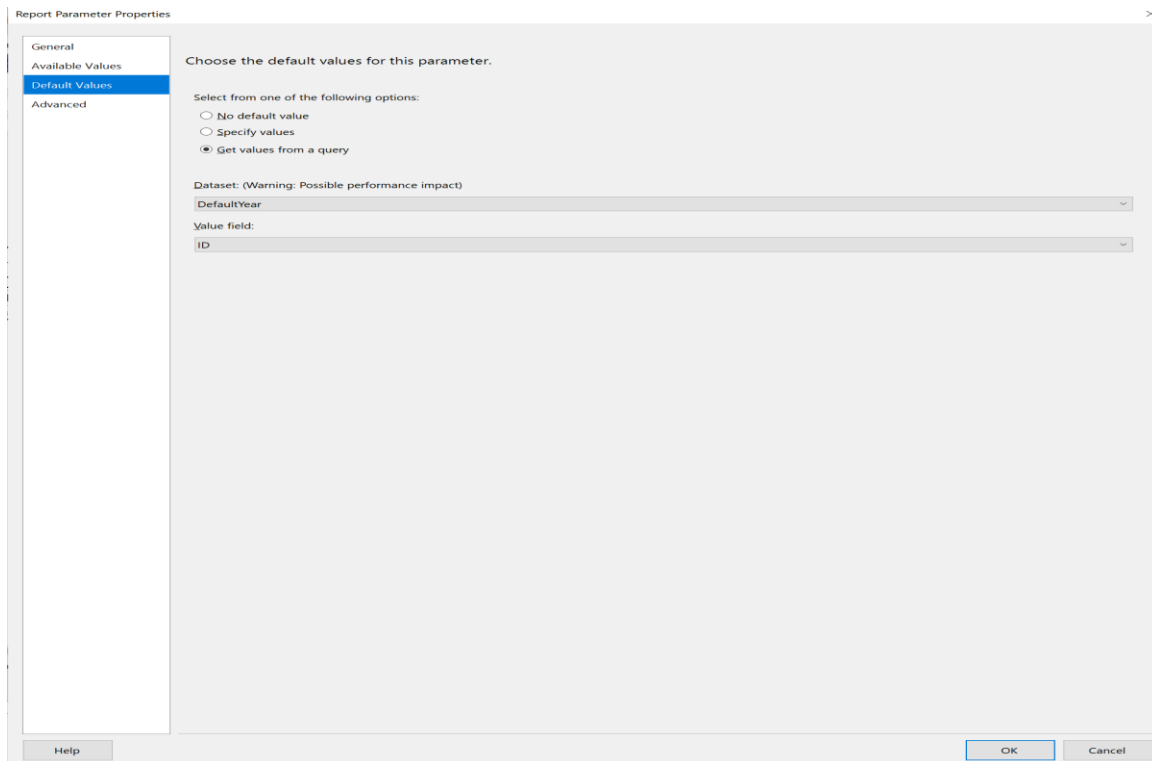
SalesYear

Value field:
value

Label field:
Label

Help OK Cancel

Set the default value for Year parameter :



Report Parameter Properties

General
Available Values
Default Values
Advanced

Choose the default values for this parameter.

Select from one of the following options:

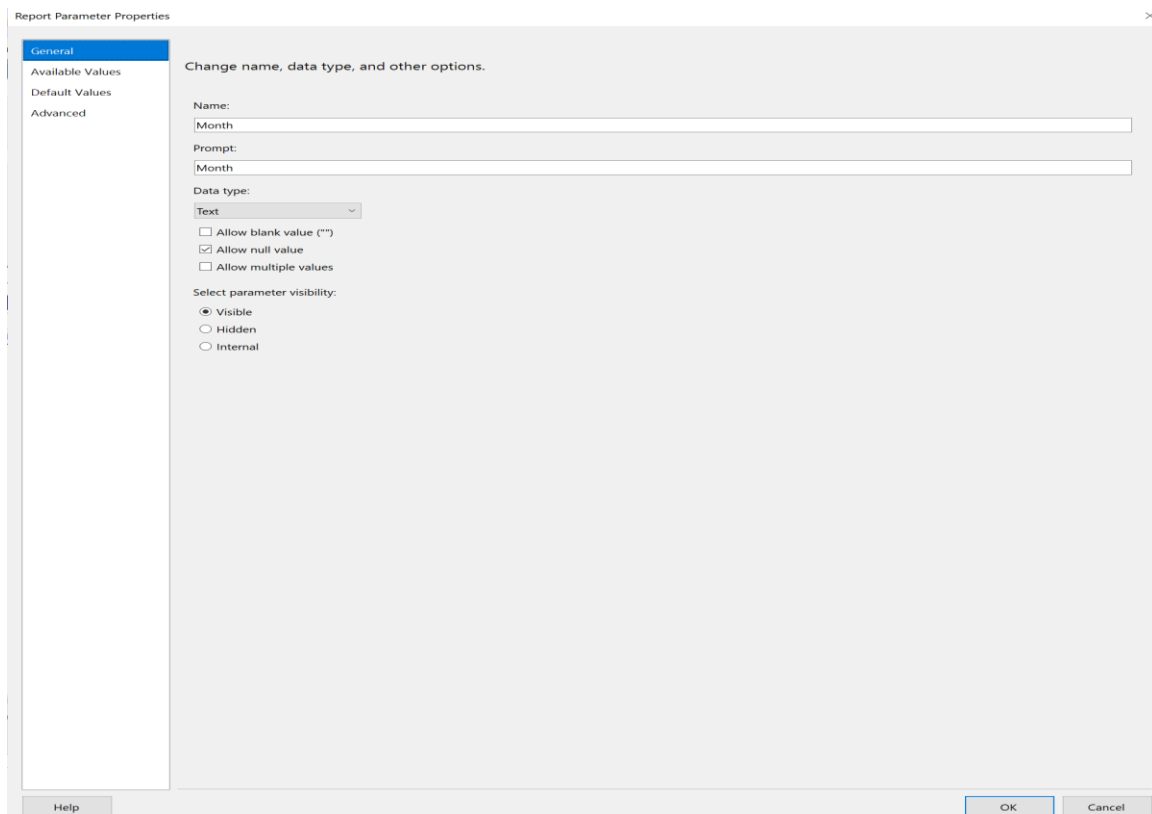
- ☐ No default value
- ☐ Specify values
- ☒ Get values from a query

Dataset: (Warning: Possible performance impact)
DefaultYear

Value field:
ID

Help OK Cancel

Create Parameter Month (Dropdown list)



Report Parameter Properties

General
Available Values
Default Values
Advanced

Change name, data type, and other options.

Name:
Month

Prompt:
Month

Data type:
Text

- ☐ Allow blank value ("")
- ☒ Allow null value
- ☐ Allow multiple values

Select parameter visibility:

- ☒ Visible
- ☐ Hidden
- ☐ Internal

Help OK Cancel

Get value for Month Parameter from Dataset (Dropdown list)

Report Parameter Properties

General
Available Values
Default Values
Advanced

Choose the available values for this parameter.

Select from one of the following options:

- ☐ None
- ☐ Specify values
- ☒ Get values from a query

Dataset: (Warning: Possible performance impact)

SalesMonth

Value field:

value

Label field:

Label

Help OK Cancel

Set a default value for Month parameter :

Report Parameter Properties

General
Available Values
Default Values
Advanced

Choose the default values for this parameter.

Select from one of the following options:

- ☐ No default value
- ☐ Specify values
- ☒ Get values from a query

Dataset: (Warning: Possible performance impact)

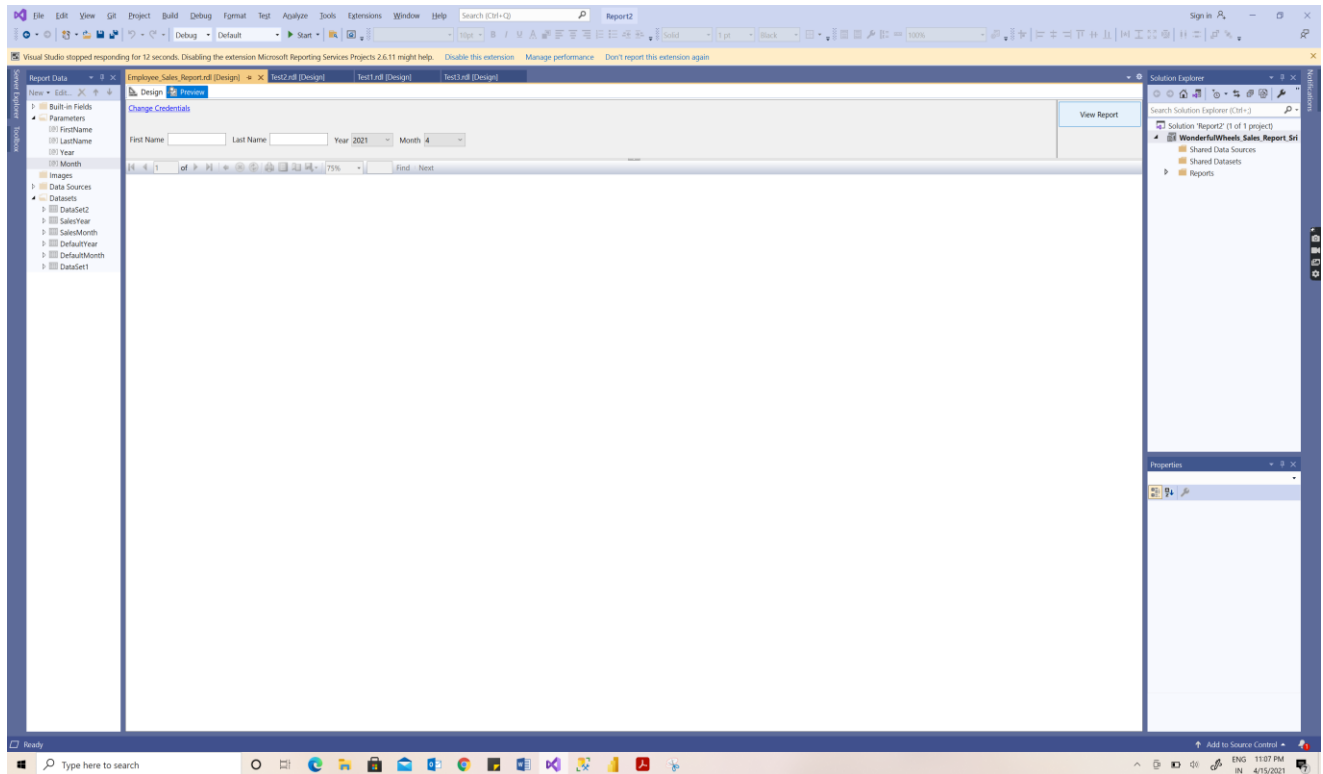
DefaultMonth

Value field:

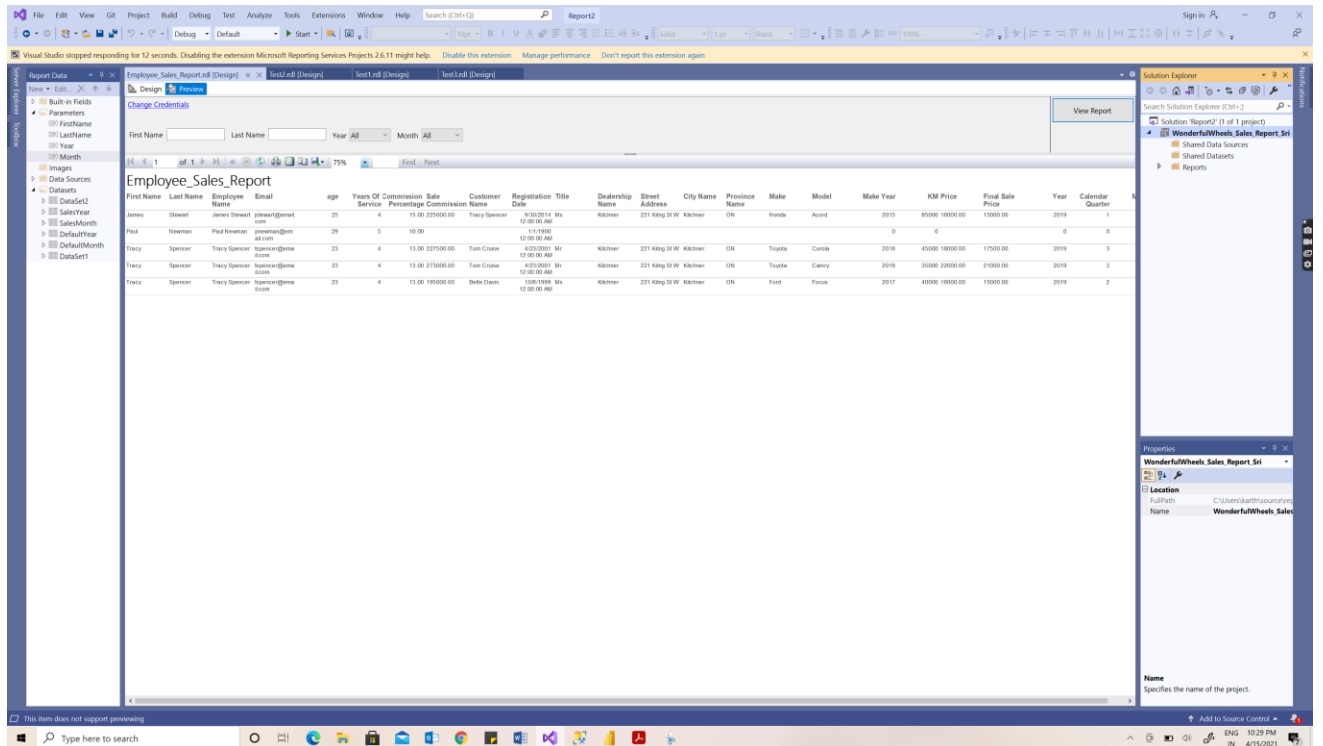
ID

Help OK Cancel

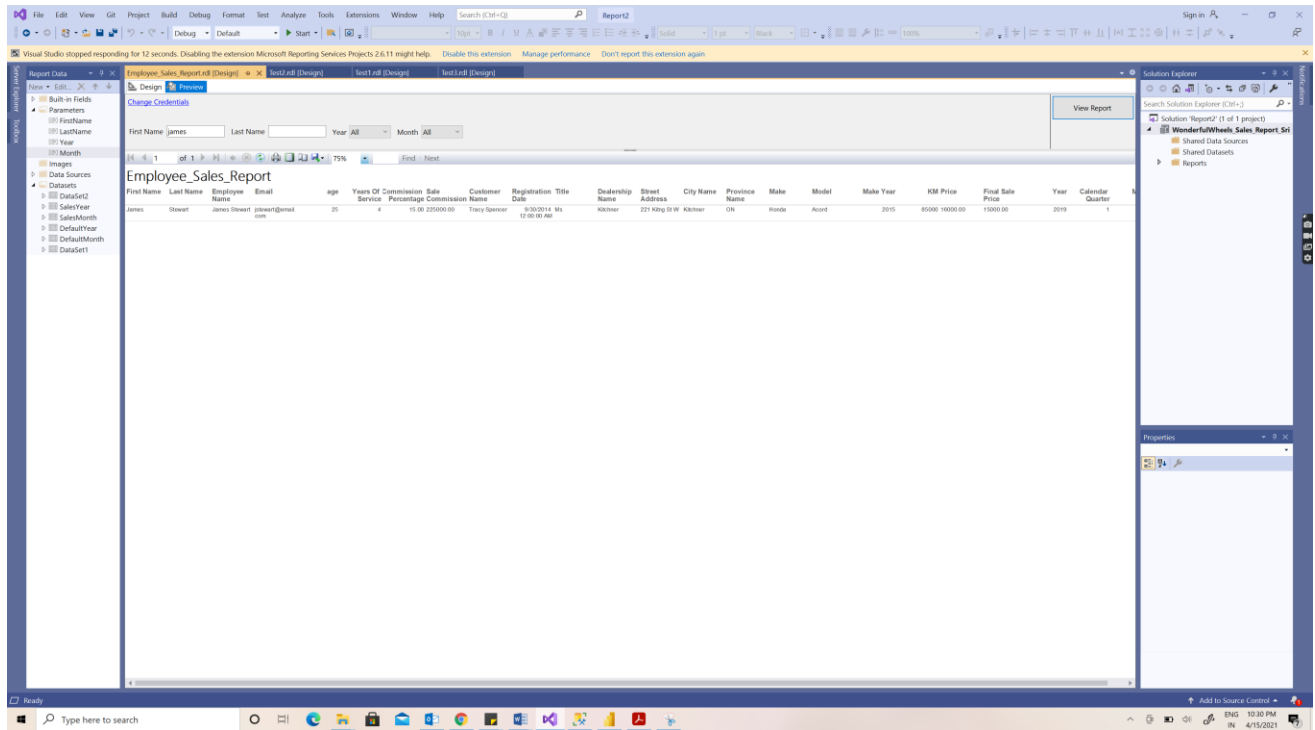
4.1 Test: Parameter with Default values:



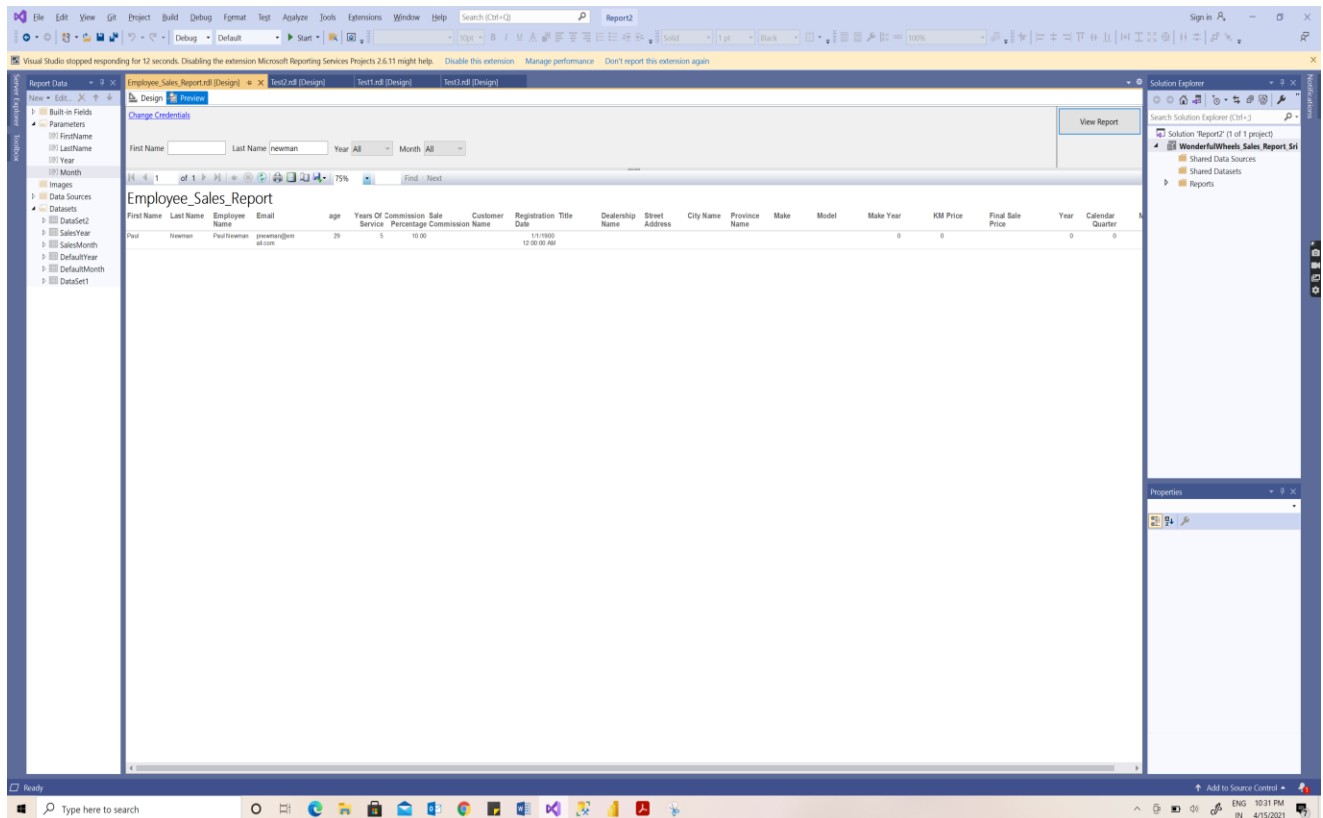
4.2 Test 1 – Nothing is selected (All data should be returned including employee who did not make any sales)



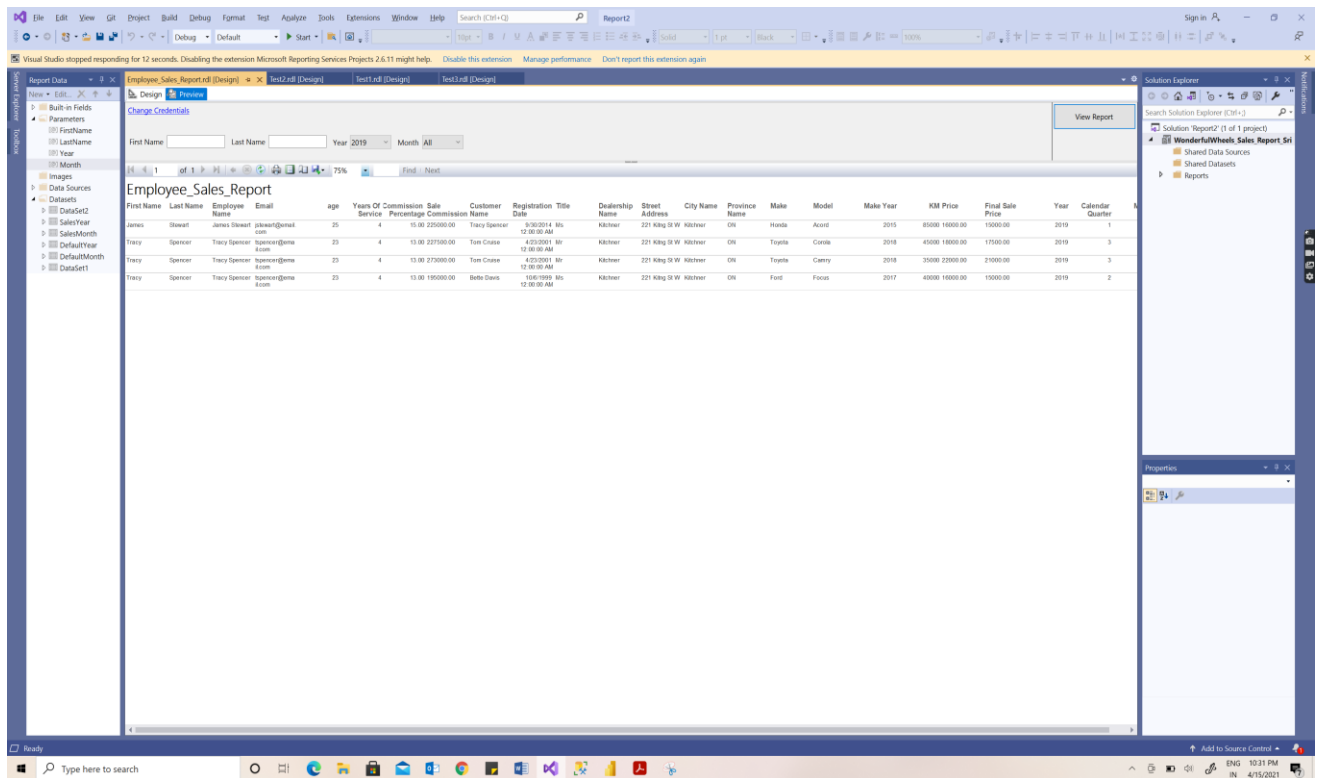
4.3 Test 2 – Only Employee First Name is selected (James)



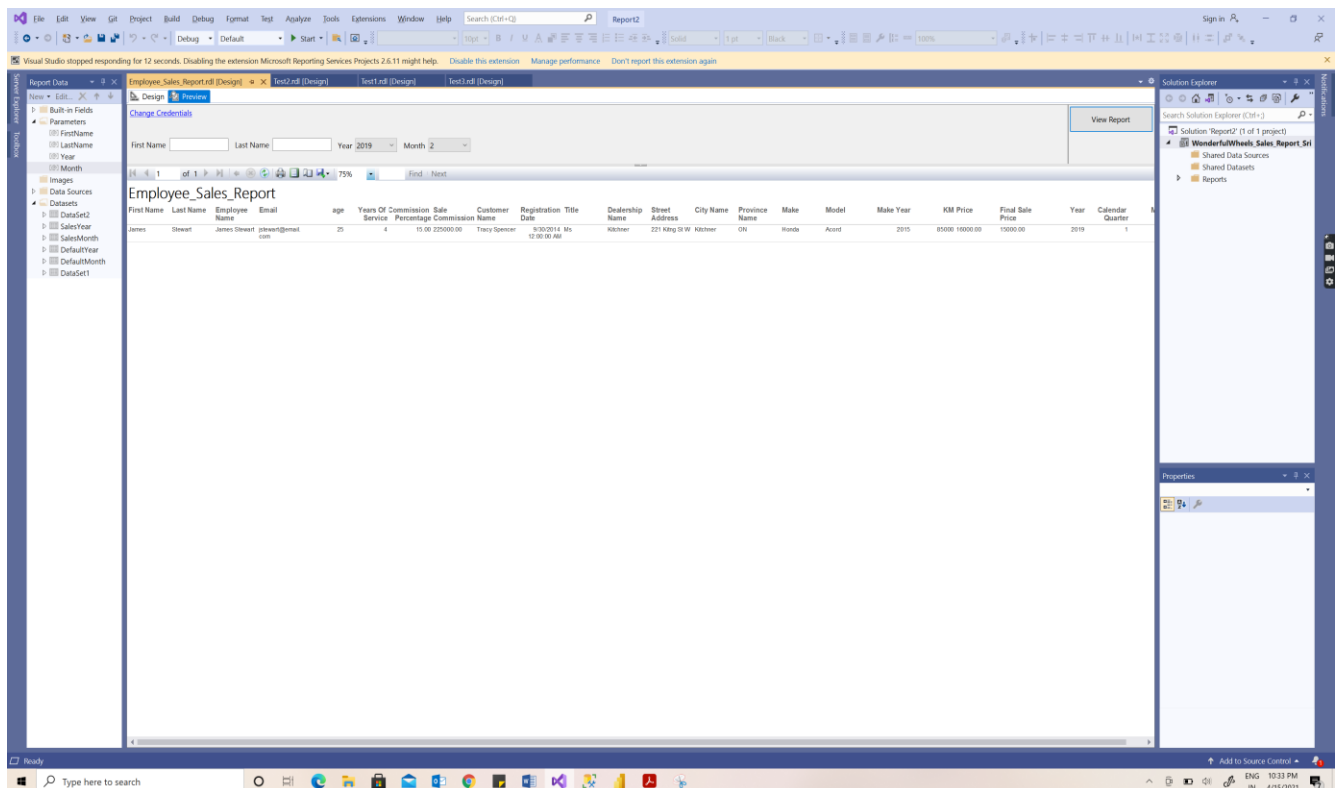
Test 2 – Only Employee Last Name is selected (Newman)



4.4 Test 3 – Year is selected (2019)



Test 3.1 Year and Month are selected (Year=2019 and Month=2):



Test: Employee First Name (LIKE operator)

The screenshot shows the Visual Studio IDE with the 'Employee_Sales_Report' open. The 'Parameters' pane on the left shows filters for 'First Name', 'Last Name', 'Year', and 'Month'. The 'Report Data' pane shows the report's data source and fields. The 'Report' pane displays the report's output, which is a table of sales data. The table has columns for 'First Name', 'Last Name', 'Employee Name', 'Email', 'age', 'Years Of Service', 'Commission Percentage', 'Sale Price', 'Customer Name', 'Registration Date', 'Title', 'Dealership Name', 'Street Address', 'City Name', 'Province Name', 'Make', 'Model', 'Make Year', 'KM Price', 'Final Sale Price', 'Year', and 'Calendar Quarter'. The table contains three rows of data, all with 'Tracy' as the first name.

First Name	Last Name	Employee Name	Email	age	Years Of Service	Commission Percentage	Sale Price	Customer Name	Registration Date	Title	Dealership Name	Street Address	City Name	Province Name	Make	Model	Make Year	KM Price	Final Sale Price	Year	Calendar Quarter
Tracy	Spencer	Tracy Spencer	spencer@wonderfulwheels.com	23	4	13.00	227500.00	Tom Cruise	4/23/2001 AM 12:00:00 AM	SALES	Kitchner	221 King St W	Kitchner	ON	Toyota	Corolla	2018	45000	18000.00	2019	3
Tracy	Spencer	Tracy Spencer	spencer@wonderfulwheels.com	23	4	13.00	275000.00	Tom Cruise	4/23/2001 AM 12:00:00 AM	SALES	Kitchner	221 King St W	Kitchner	ON	Toyota	Corolla	2018	30000	23000.00	2019	3
Tracy	Spencer	Tracy Spencer	spencer@wonderfulwheels.com	23	4	13.00	195000.00	Bella Davis	10/4/2008 AM 12:00:00 AM	SALES	Kitchner	321 King St W	Kitchner	ON	Ford	Focus	2017	40000	16000.00	2019	2

Test: Employee Last Name (LIKE operator)

The screenshot shows the Visual Studio IDE with the 'Employee_Sales_Report' open. The 'Parameters' pane on the left shows filters for 'First Name', 'Last Name', 'Year', and 'Month'. The 'Report Data' pane shows the report's data source and fields. The 'Report' pane displays the report's output, which is a table of sales data. The table has columns for 'First Name', 'Last Name', 'Employee Name', 'Email', 'age', 'Years Of Service', 'Commission Percentage', 'Sale Price', 'Customer Name', 'Registration Date', 'Title', 'Dealership Name', 'Street Address', 'City Name', 'Province Name', 'Make', 'Model', 'Make Year', 'KM Price', 'Final Sale Price', 'Year', and 'Calendar Quarter'. The table contains one row of data with 'Paul' as the first name and 'Hosman' as the last name.

First Name	Last Name	Employee Name	Email	age	Years Of Service	Commission Percentage	Sale Price	Customer Name	Registration Date	Title	Dealership Name	Street Address	City Name	Province Name	Make	Model	Make Year	KM Price	Final Sale Price	Year	Calendar Quarter
Paul	Hosman	Paul Hosman	phosman@wonderfulwheels.com	29	5	10.00	10.00		5/1/1990	SALES	Kitchner	221 King St W	Kitchner	ON	Toyota	Corolla	2018	45000	18000.00	2019	3

Step 2 – Employee Sales Power BI dashboard

1) Table Report from step 1

2) Three visualizations of your choice:

