AMIT ACADEMY
for Computer Education

SUBJECT – Desktop Application Development-II

Faculty Name – Ankit Rami

Unit- 5

REPORTS AND CHARTS

AMIT ACADEMY FOR COMPUTER EDUCATION

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Introduction of report

- ✓ Reports offer a way to view, format, and summarize the information in your Microsoft database. For example, you can create a simple report of phone numbers for all your contacts, or a summary report on the total sales across different regions and time periods.

- ✓ **A report is a document (paper or electronic) that presents data in an easy-to-read, professional format.**

- ✓ Reports can be created within database applications such as Access. In this case the results of database queries are presented in an attractive format, with headings, fonts and colours designed to enhance understanding of the data**.**

- ✓ **Report- is taken from a larger set of data in summarized information for a specific audience**.

Features of report

- ✓ To find the experiments a report is necessary from a larger set of data.
- ✓ Analyzing is done to inquire about the data.
- ✓ A data have three procedures;
- ✓ It is represented on the behalf of audience while establishing the topic.
- ✓ Format is needed for the report to look more flexible and presentable.
- ✓ Last, is style that contains the formal language.
- ✓ These steps are important for a report to have essential data taken from a larger data.

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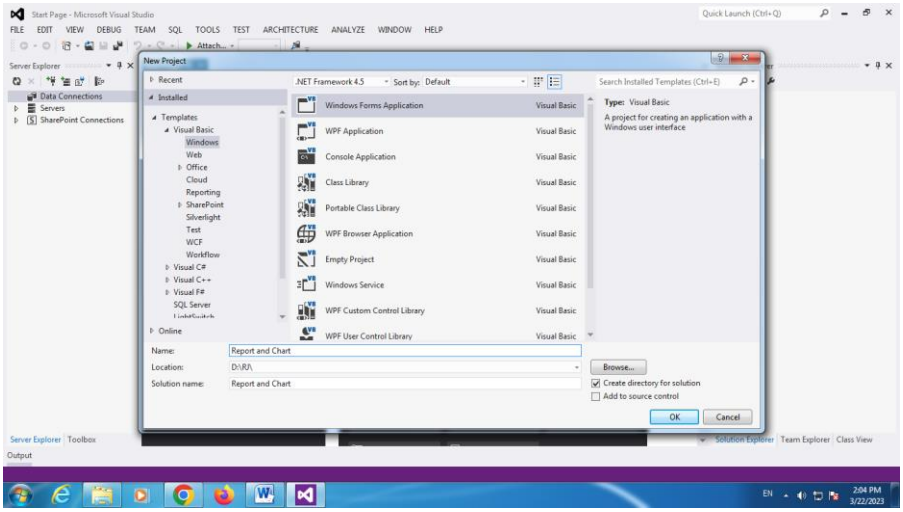
Simple Report vs Crystal report in VB.NET

Simple Report	Crystal Report
✓ The file extension for Simple Reports **(.rdlc)**	✓ The file extension for Crystal Reports **(.rpt)**
✓ Simple Reports is owned and developed by Microsoft.	✓ Crystal Reports is owned and developed by SAP.
✓ Attach RDLC Report to Report Viewer Tools in a form	✓ Attach RPT Report to Crystal Report viewer Tools in a form
✓ Simple Reports Not creates different areas in the Design tab(Create only 1 Areas)	✓ Crystal Reports automatically creates five areas in the Design tab

Create Simple Report in VB.NET

✓ Step-1 Create Windows Project in Visual Studio



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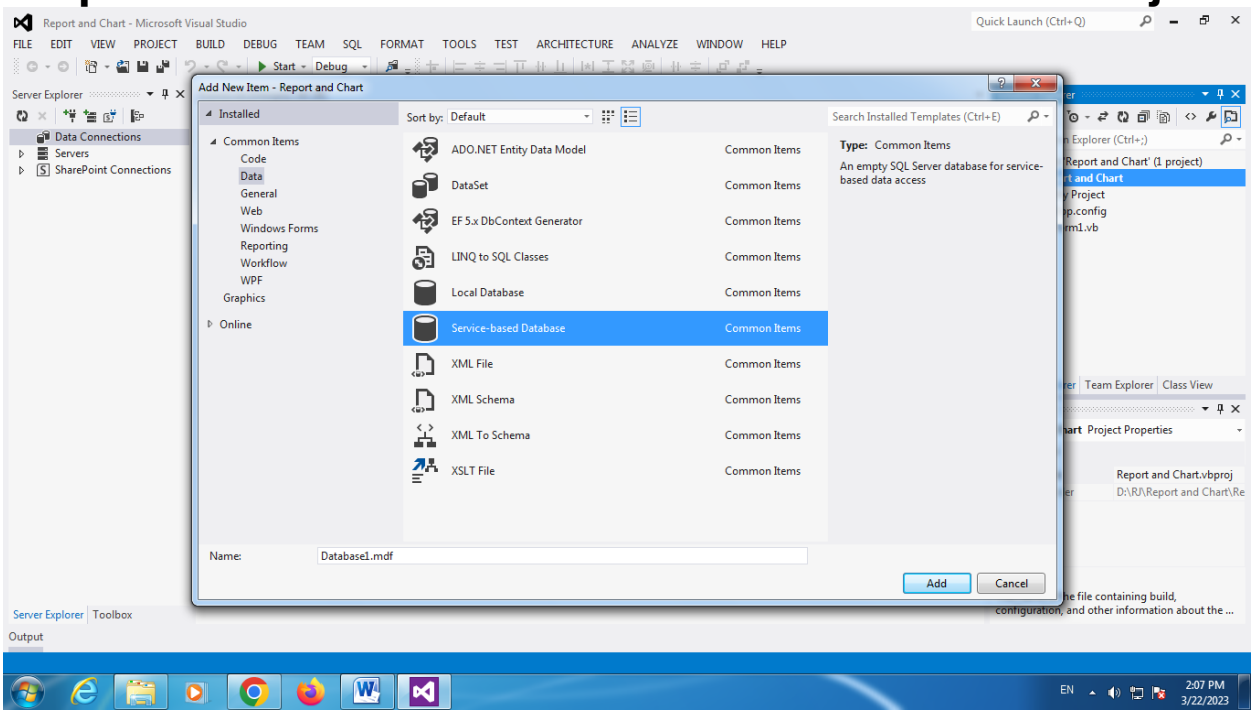
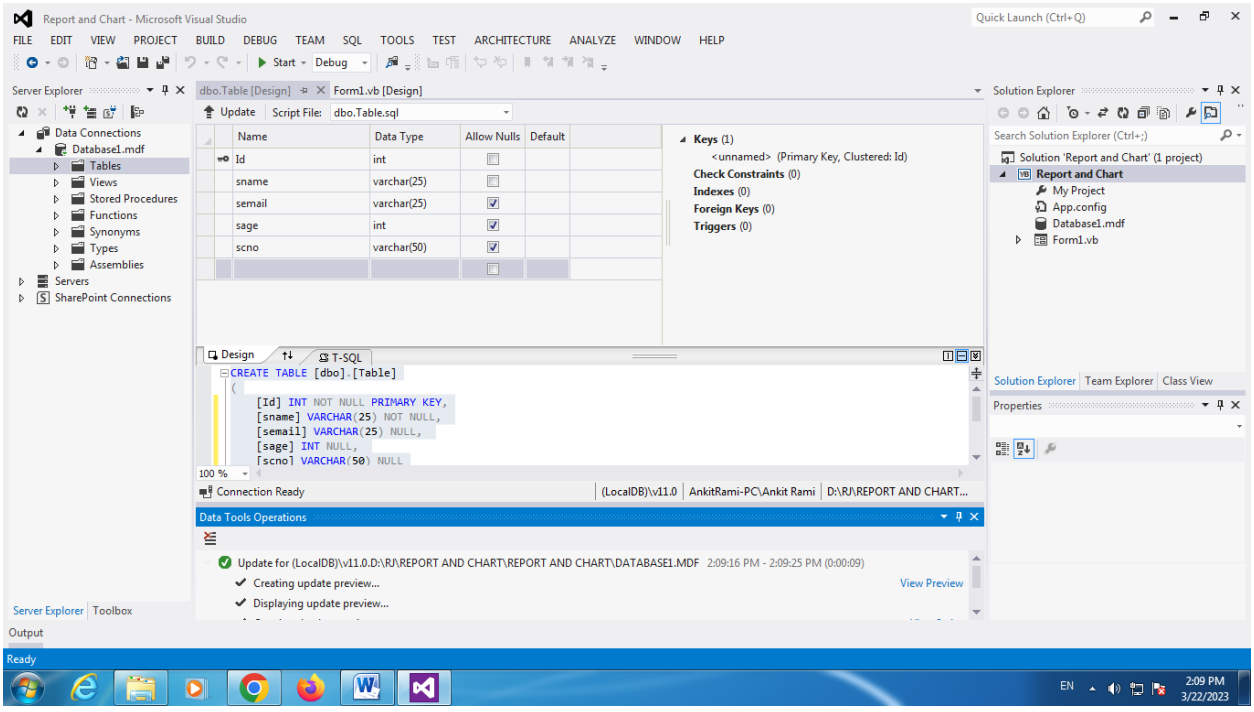
✓ Step-2 Create Database and Table in Windows Project





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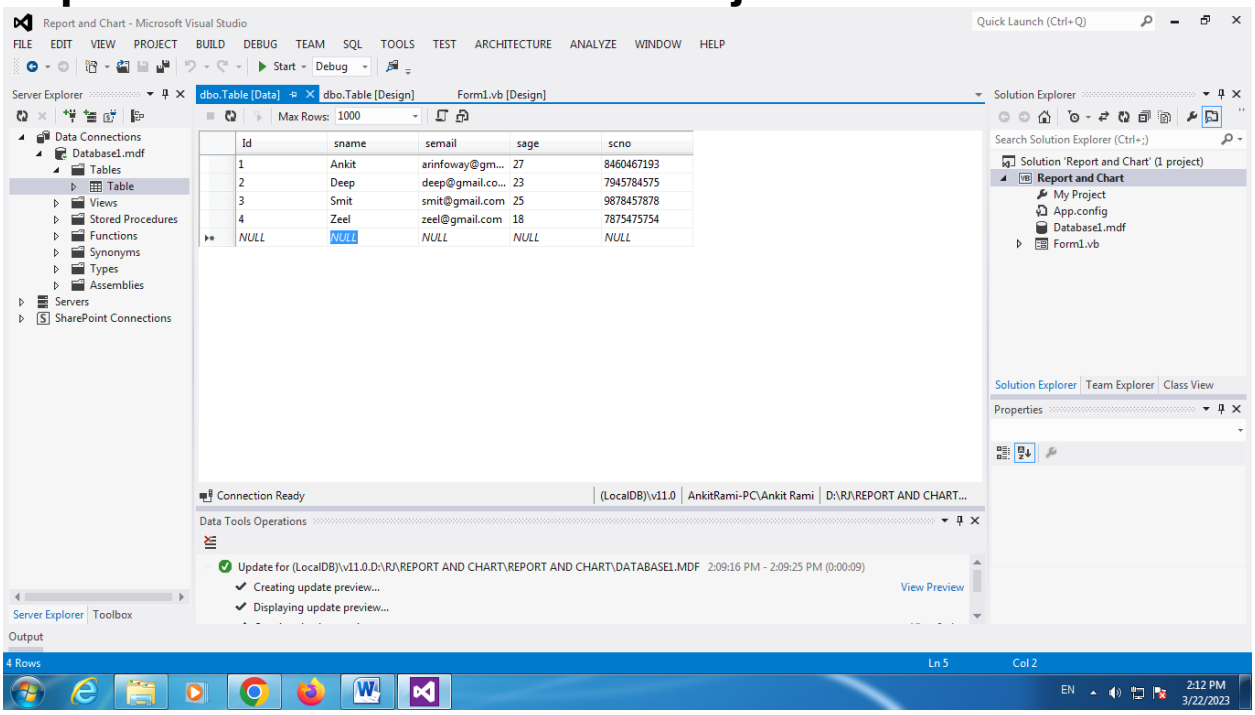
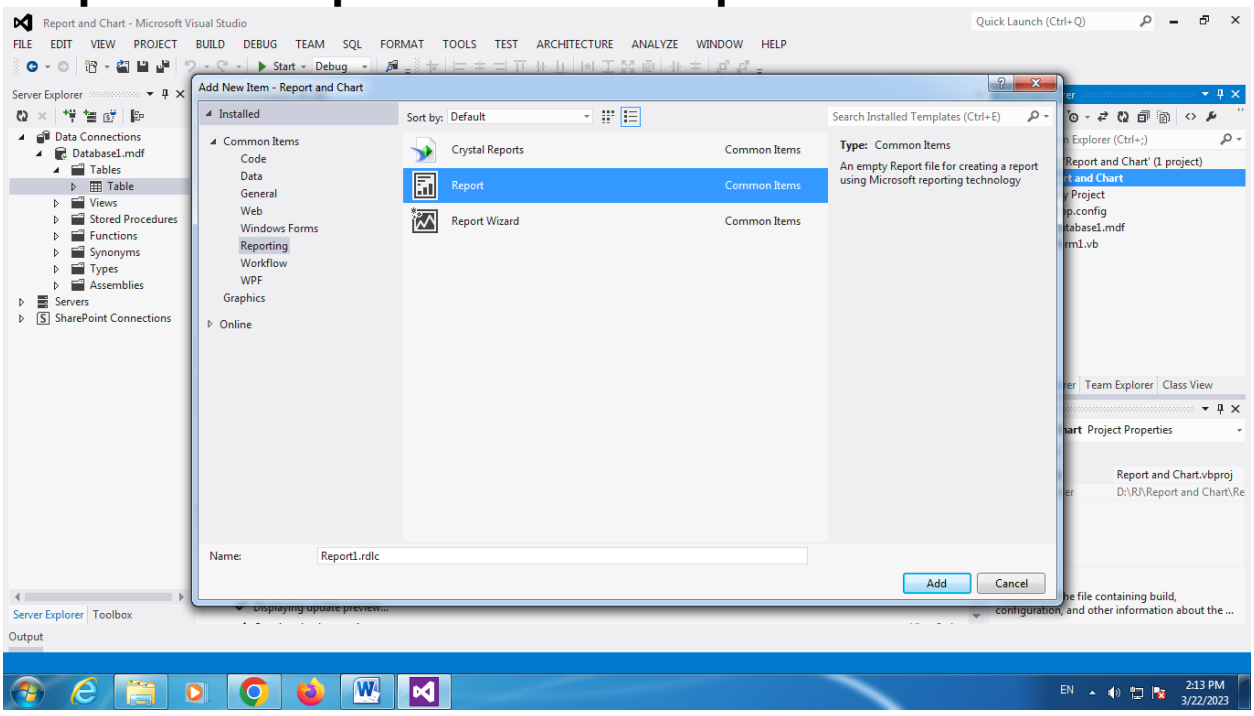
✓ Step-3 Add Data in Database Project



✓ Setp-4 Add Report in Server Explore



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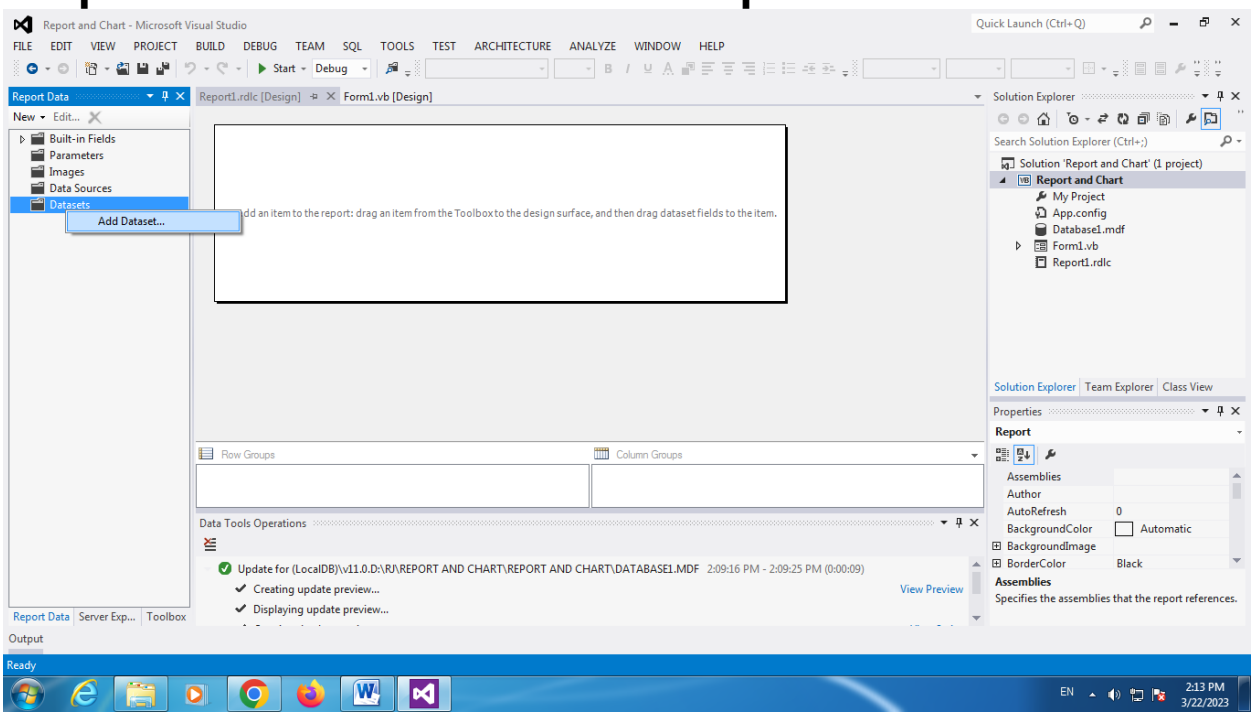
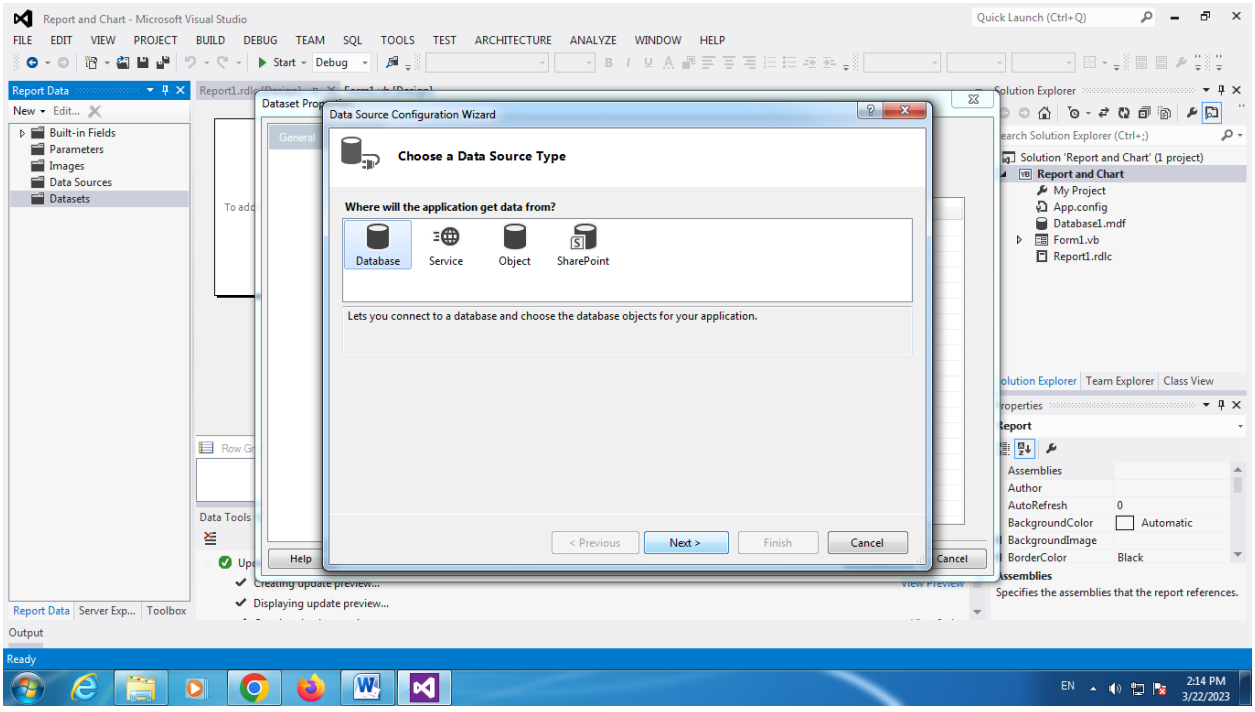
✓ Step-5 Link Database Data to Report Data





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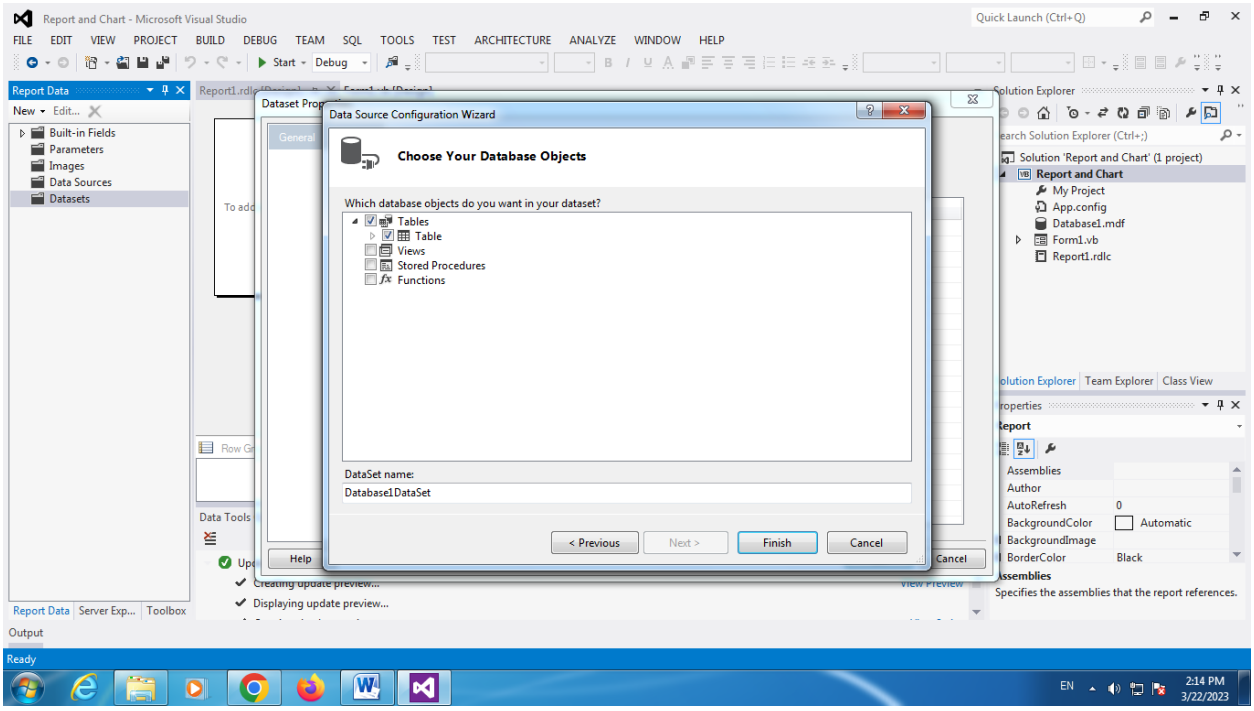

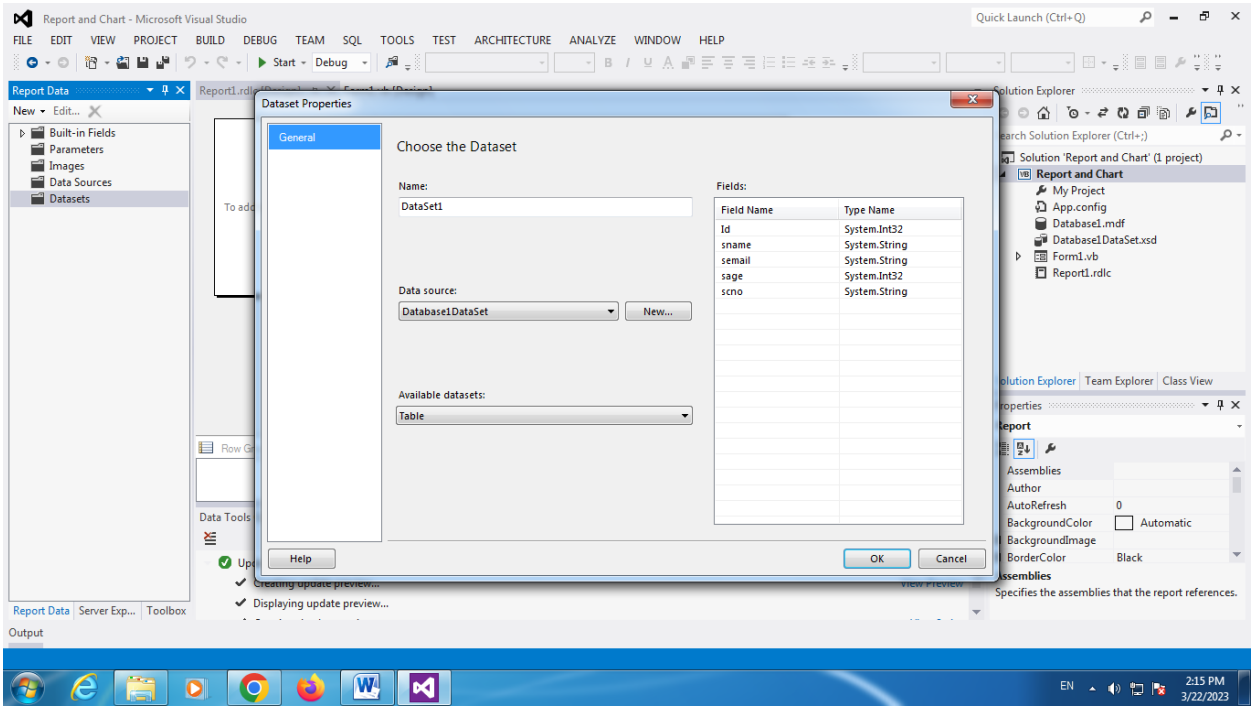

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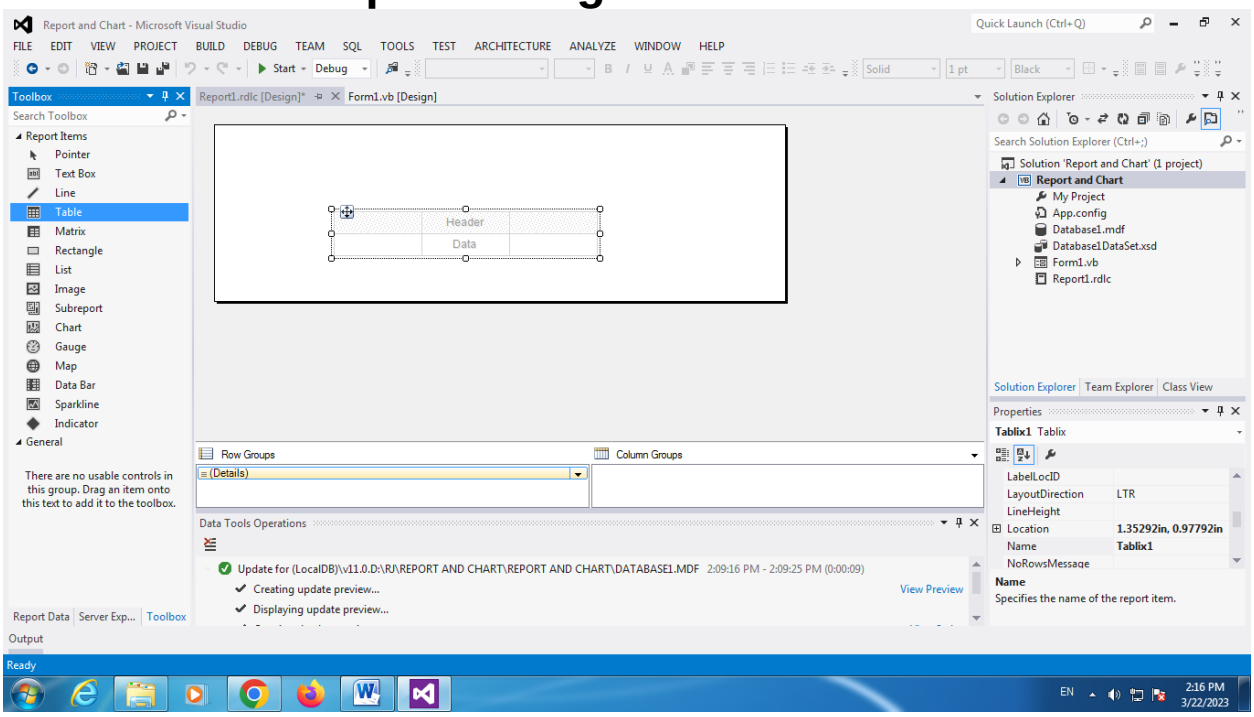
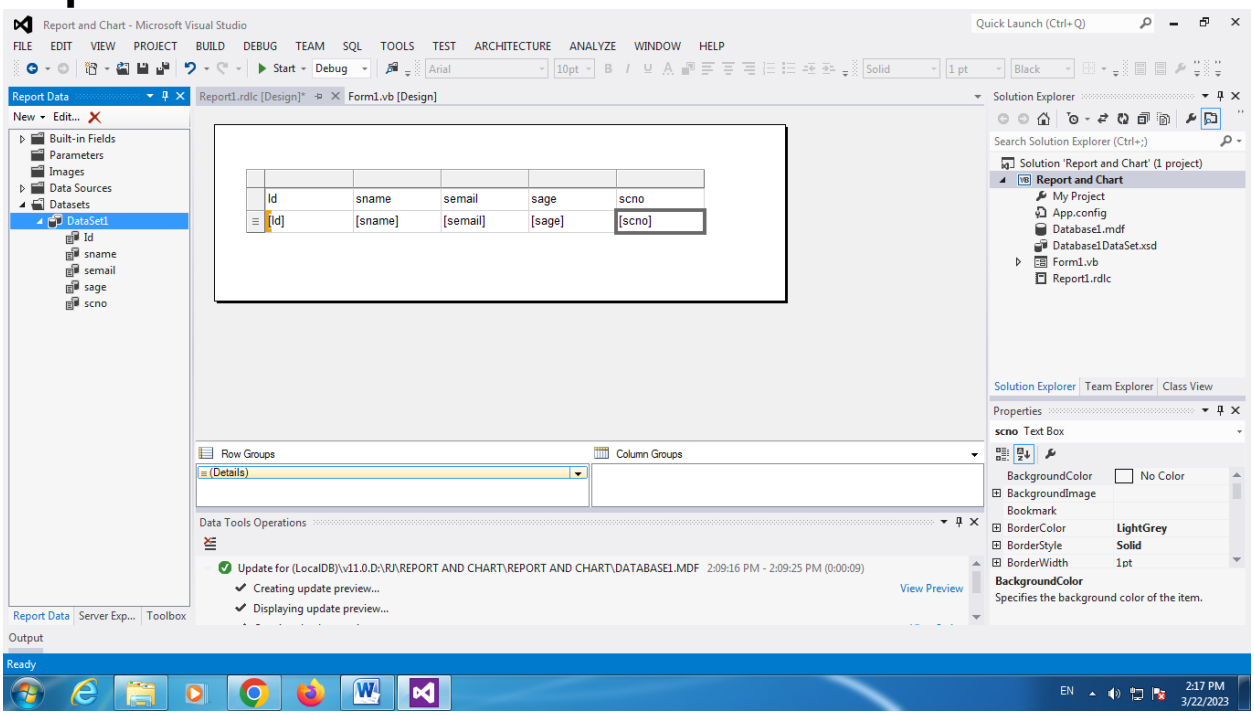
✓ Add Table in Report Using Toolbox



✓ Add Dataset Value in Report Data Table and Save Report Data



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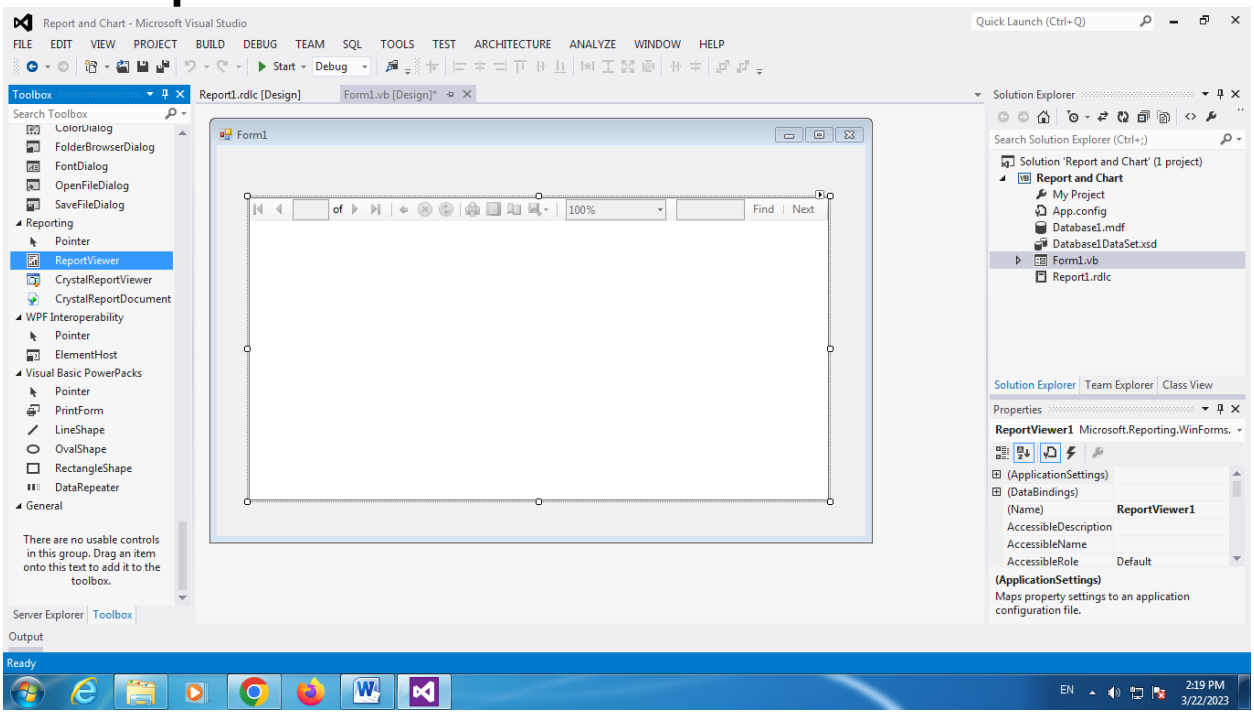
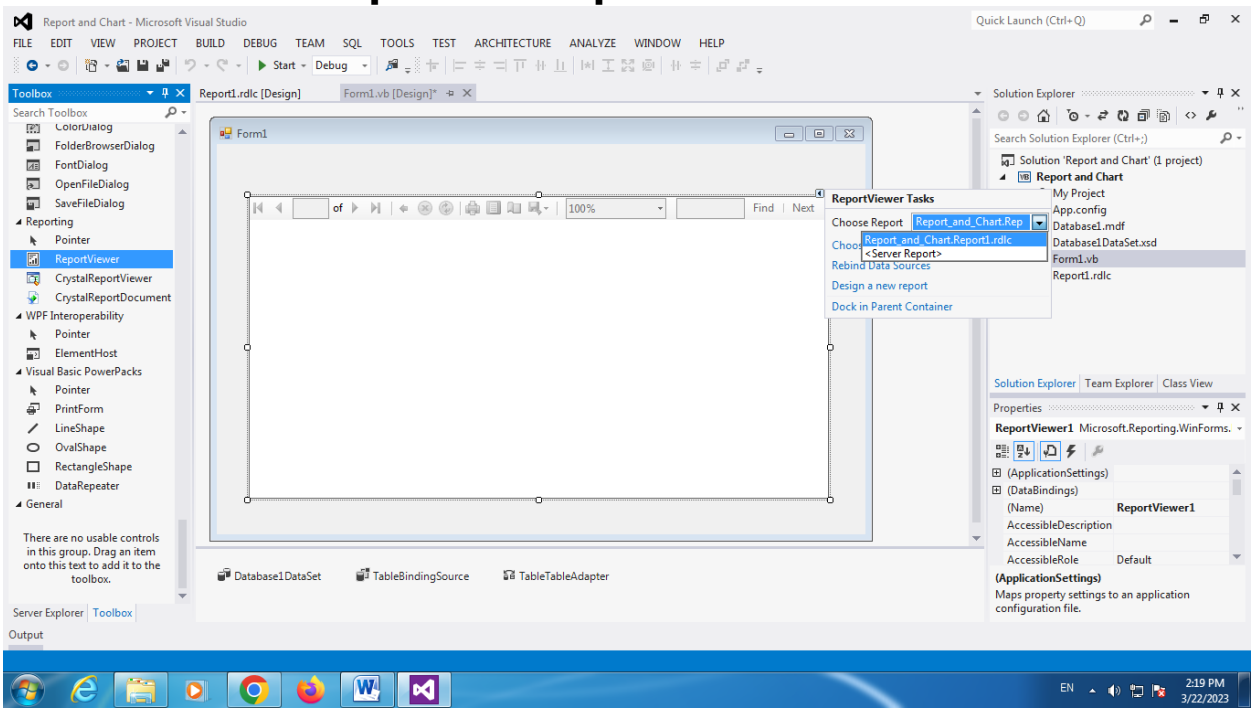
✓ Step-5 Link Report Data to Report View

✓ Add Report View in Windows Form



✓ Link Created Report in Report Viewers



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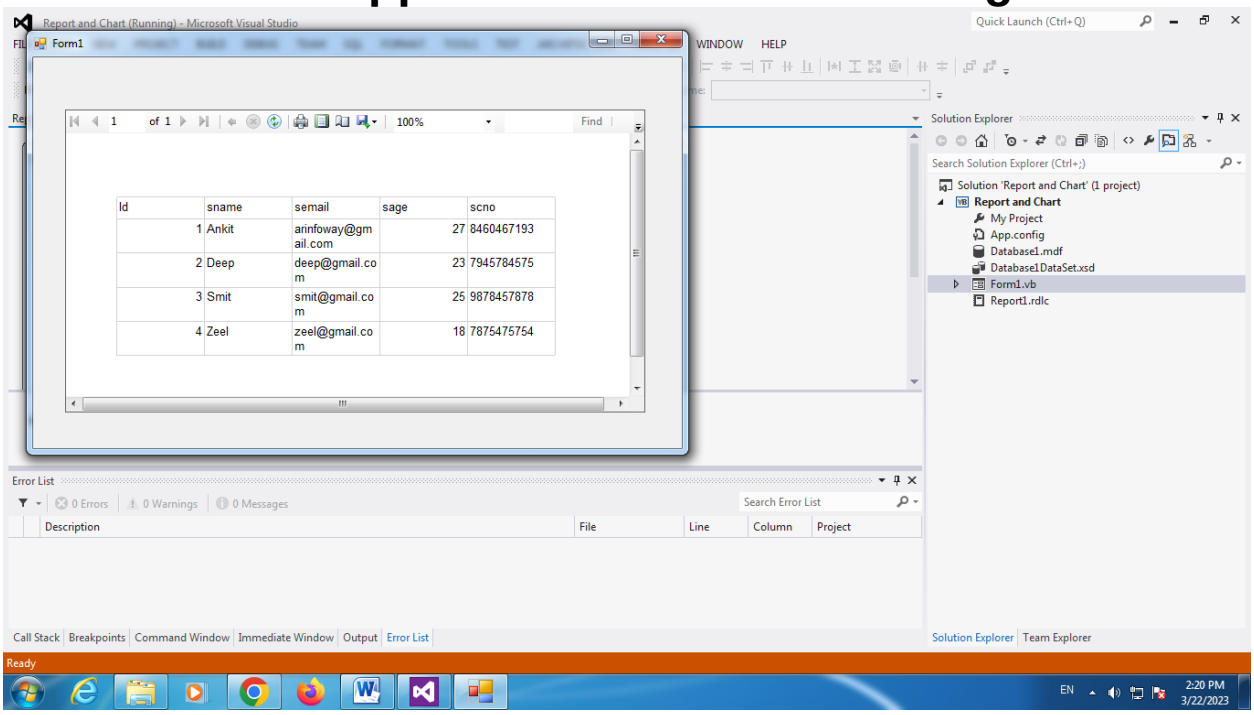
✓ Run Windows Application and Execute Program



Introduction to chart

- ✓ A chart (sometimes known as a graph) is a graphical representation for data visualization, in which "the data is represented by symbols, such as bars in a bar chart, lines in a line chart, or slices in a pie chart
- ✓ A Chart Control is a User Control option that enables you to display chart data in Enterprise Portal. A Chart Control provides good performance because the data needed for the chart to display is contained in the data set.
- ✓ A chart is a type of representation of large sets of data, which makes the user understand the same better. Using the same helps predict existing data and forecast future data based on the present data pattern. A chart can take the form of a diagram, a picture, or a graph. We can transform datasets into a meaningful display of information using charts.

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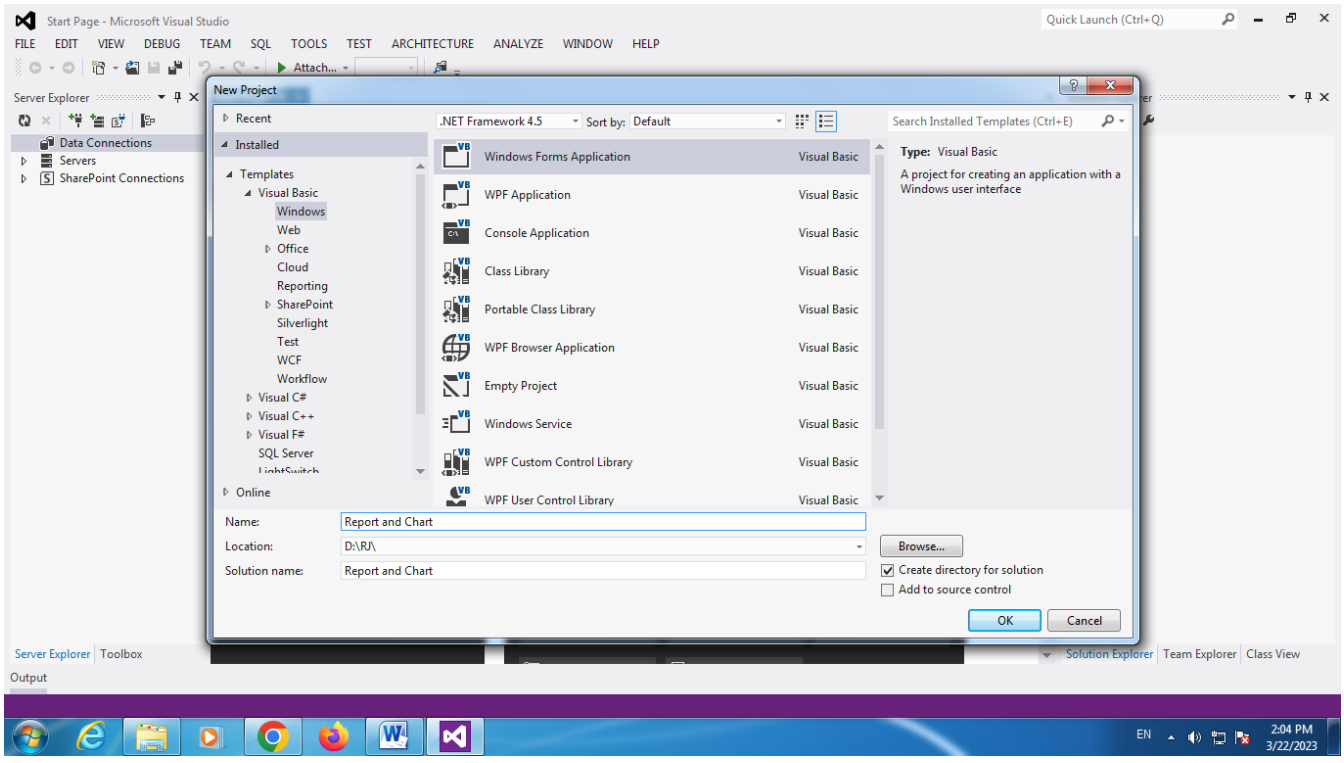
✓Types of charts

✓ There are a wide variety of charts available to display data. The list below contains those that are popular and supported by many programs.

✓ Area chart
✓ Bar chart
✓ Column chart
✓ Excel spark lines
✓ Flow chart
✓ Gantt chart
✓ Graph
✓ Line chart
✓ Pie chart
✓ Point chart

Create Charts Report in VB.NET

Step-1 Create Windows Project in Visual Studio



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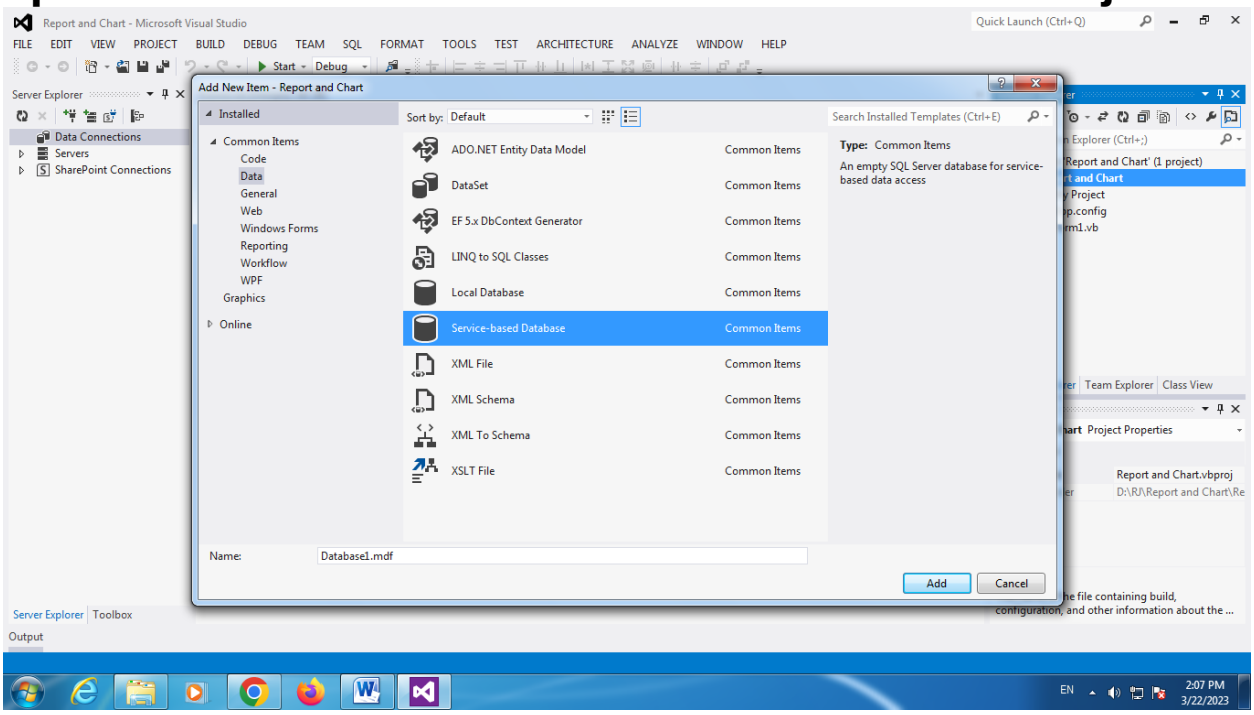
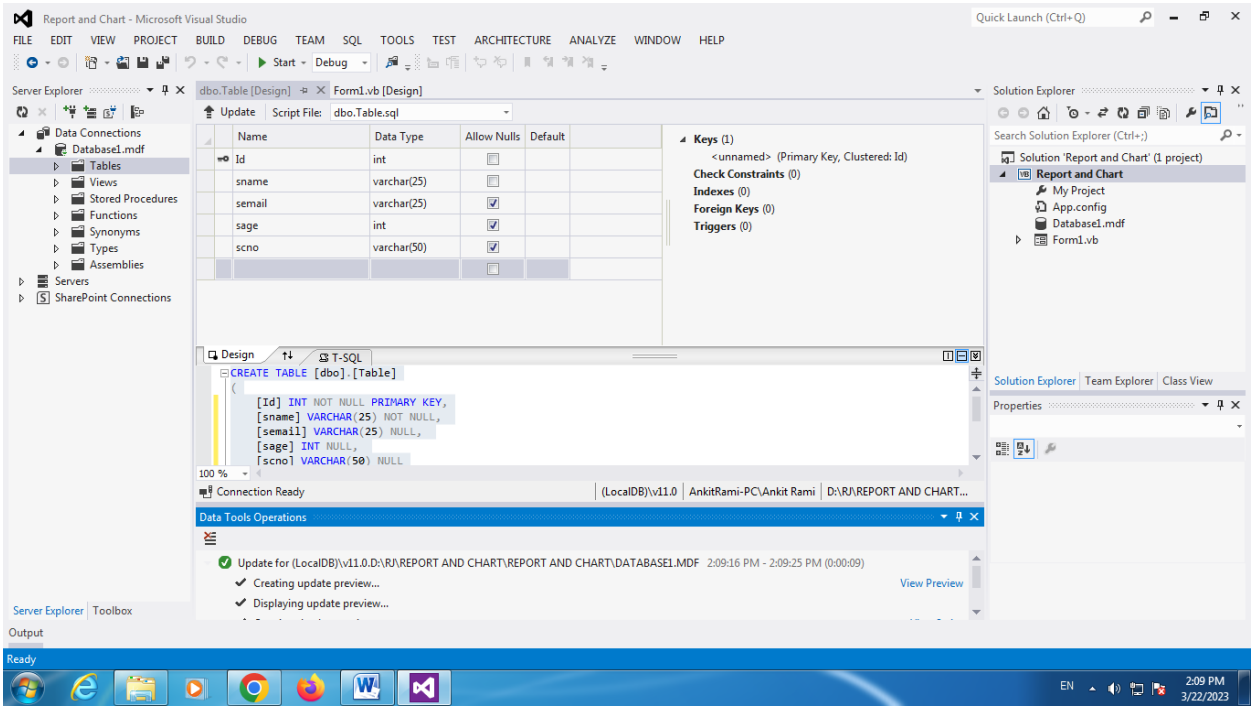
Step-2 Create Database and Table in Windows Project





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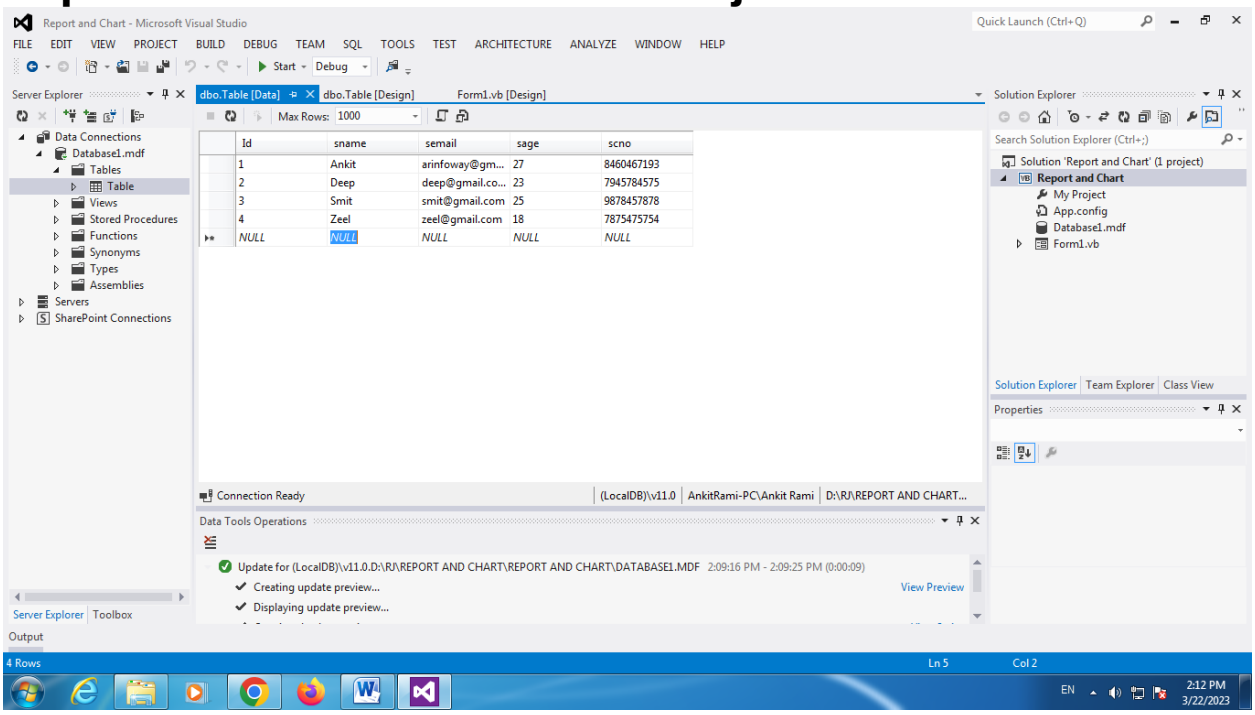
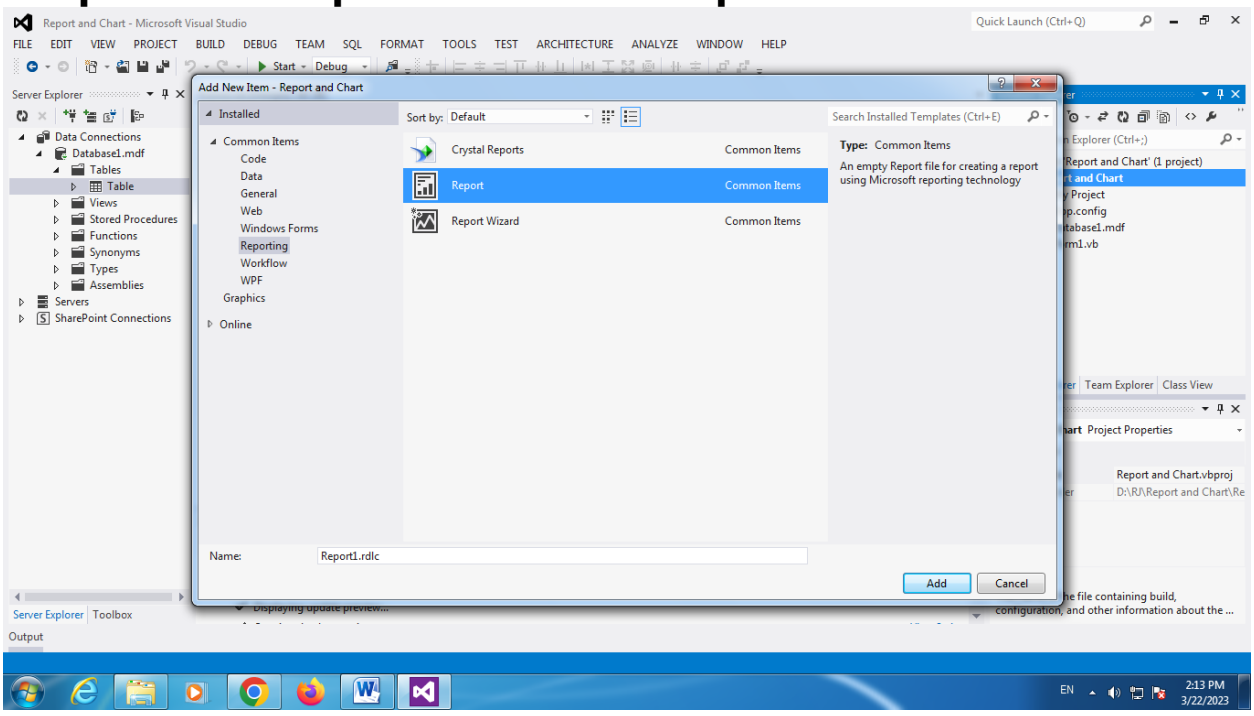
Step-3 Add Data in Database Project

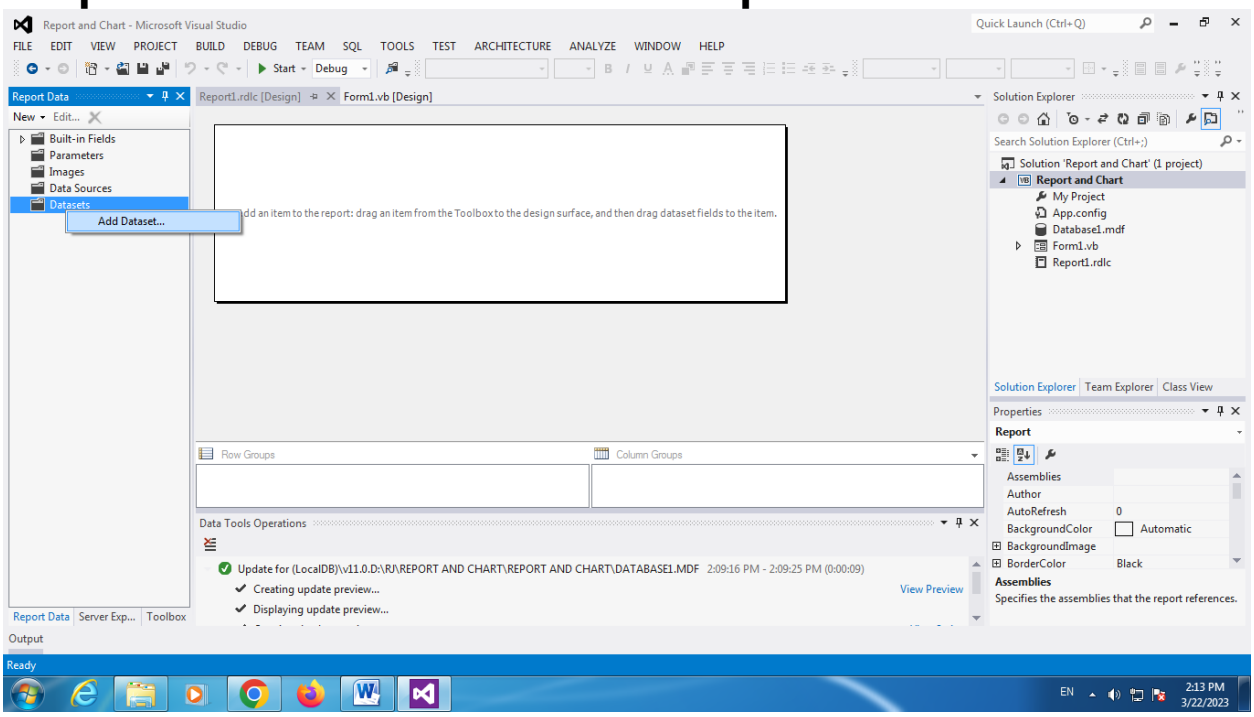


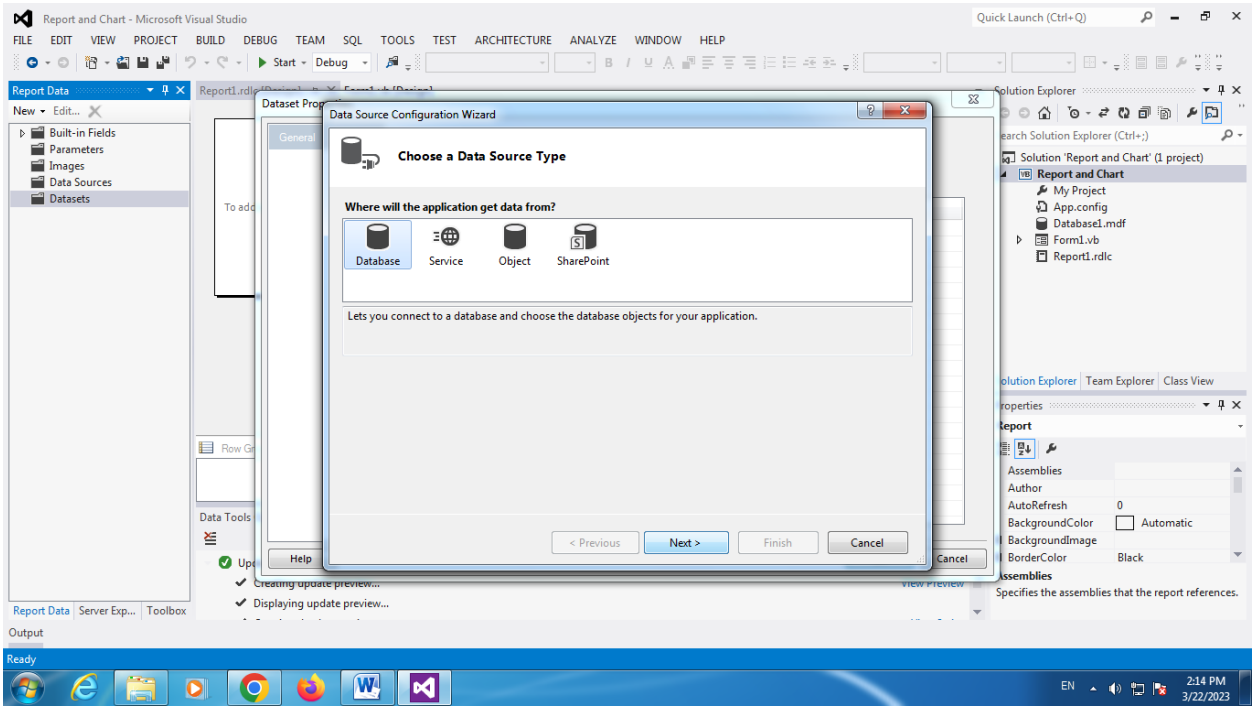
Setp-4 Add Report in Server Explore



Desktop Application Development-II

Step-5 Link Database Data to Report Data





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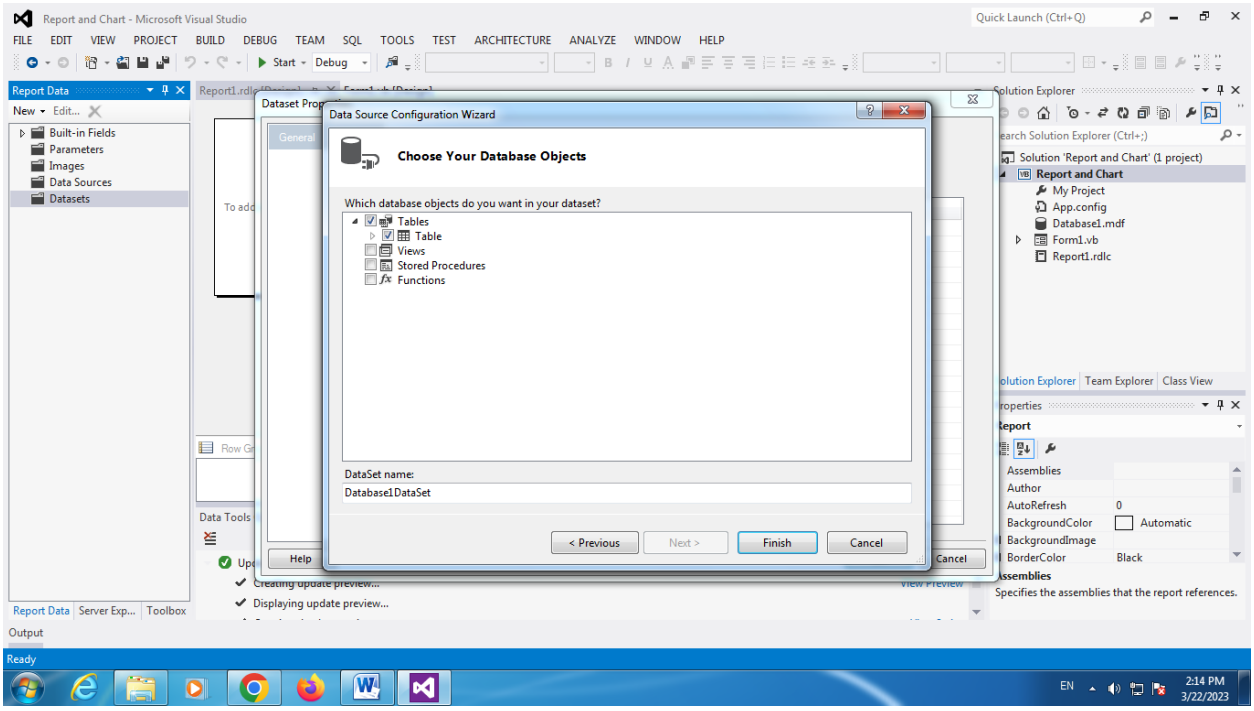

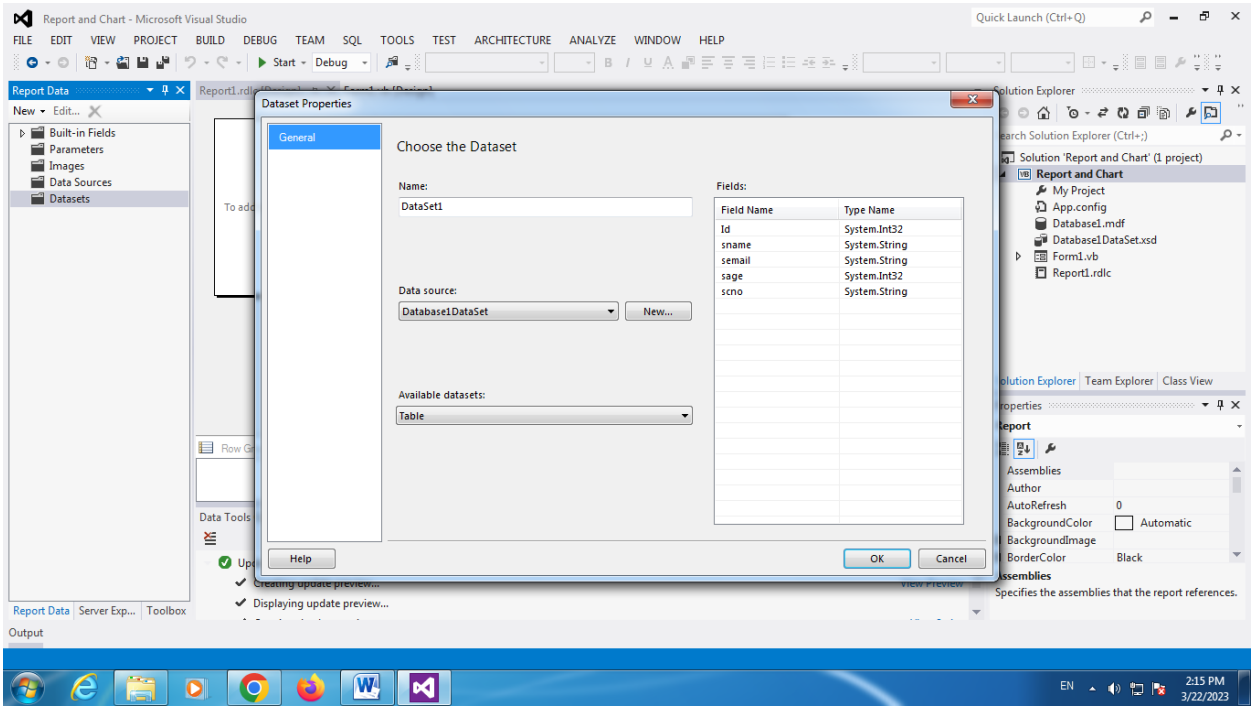

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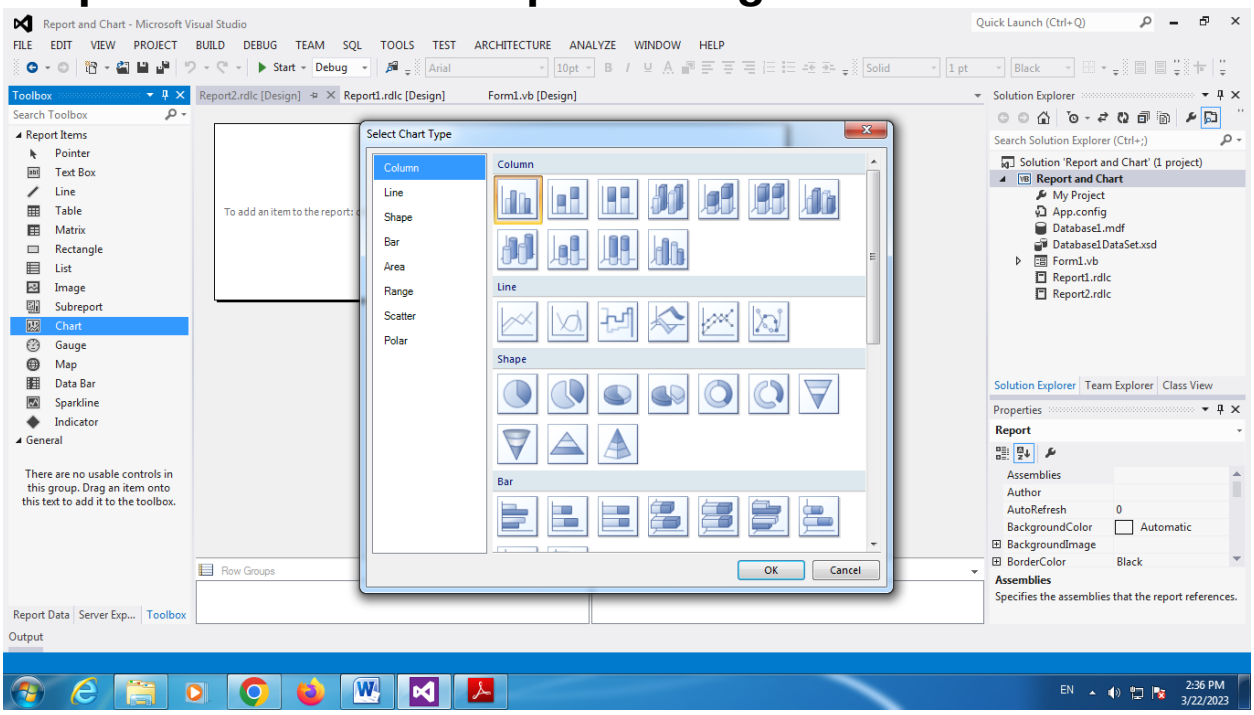
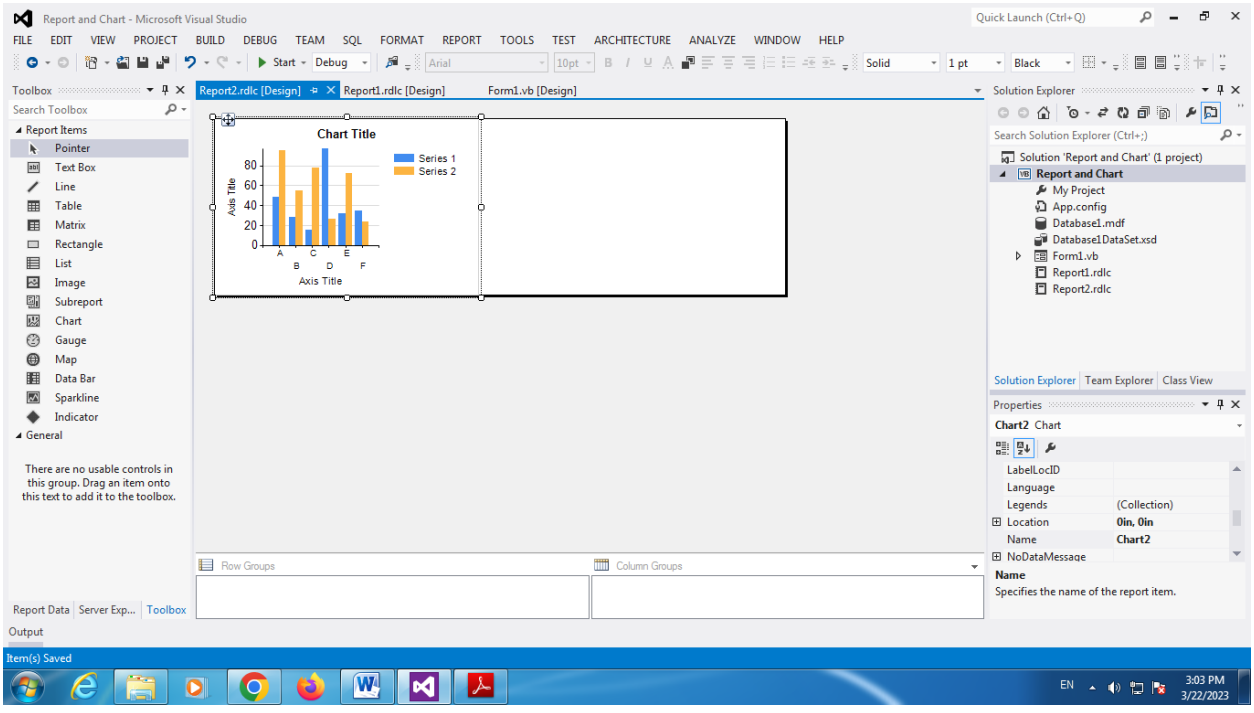
✓ Step-6 Add Chart in Report Using Toolbox





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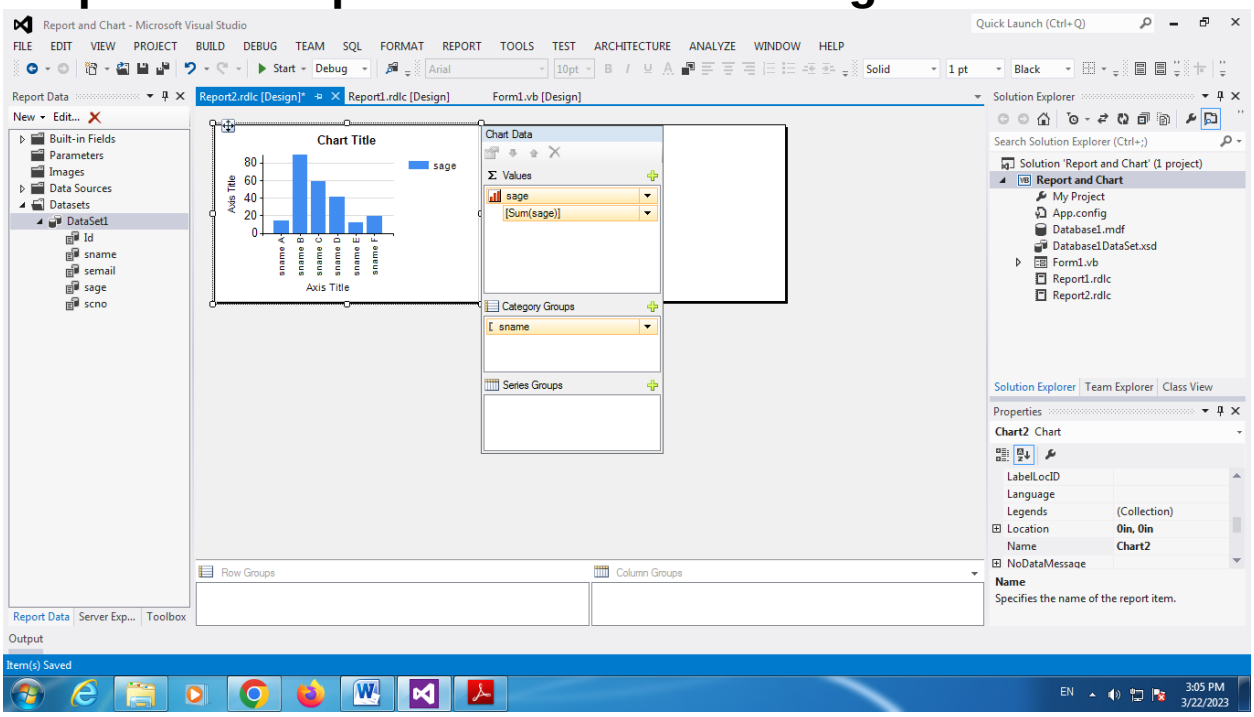
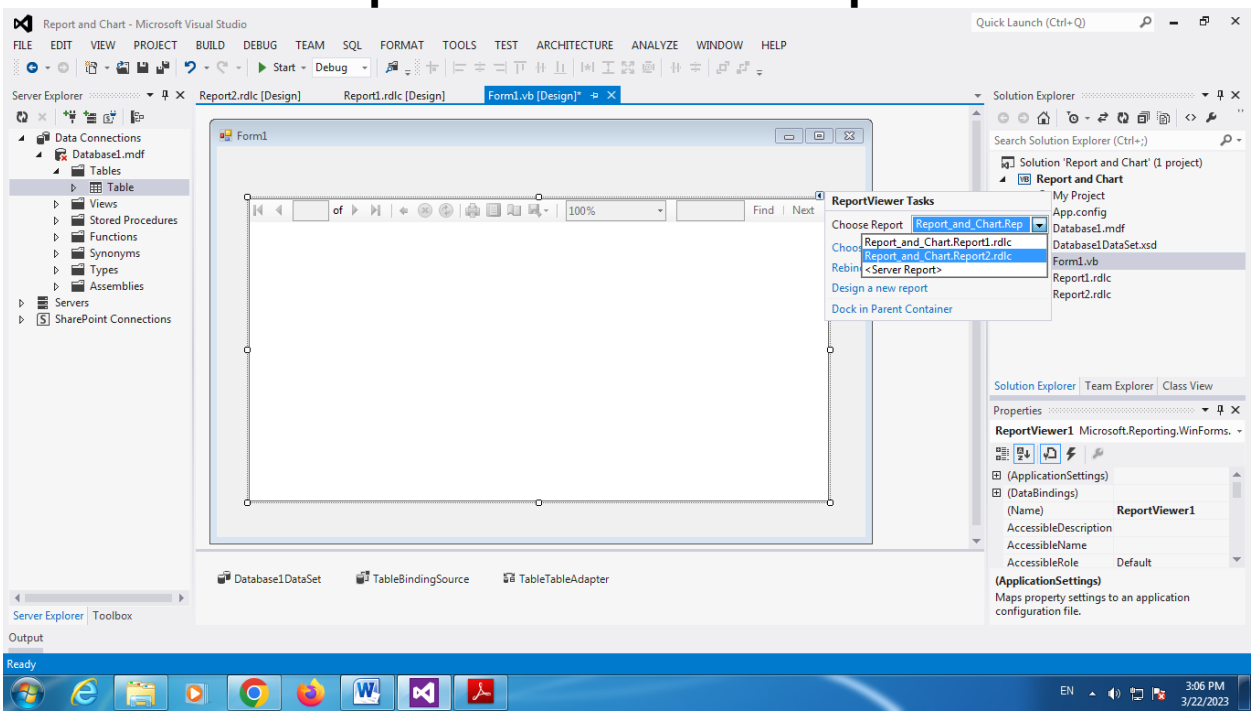
Step-7 Add Report Data in Chart using .NET



✓ Link Created Report Chart Data in Report Viewers



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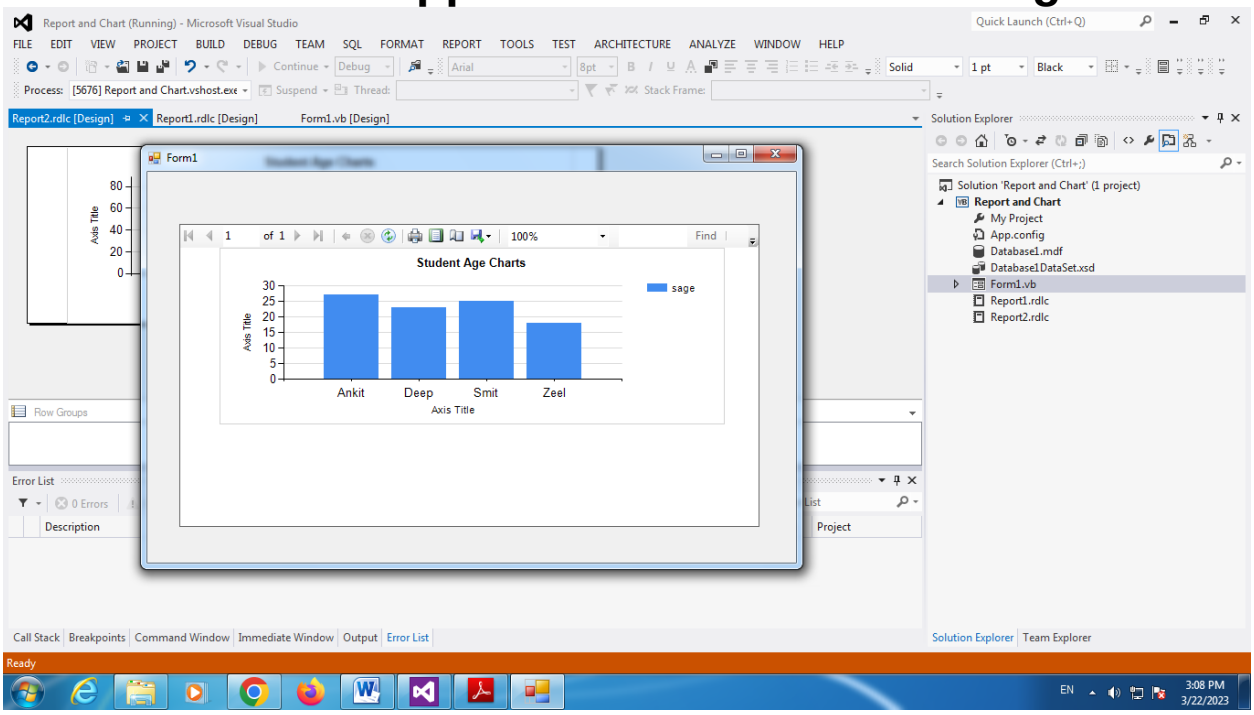
✓ Run Windows Application and Execute Program



Comparison of Report and Chart

	Report	Chart
Presents Information	*Yes*	*Yes*
Uses Visualizations	*Maybe*	*Yes*
Single Screen View	*Maybe*	*Yes*
All Information Used Together	*Maybe*	*Yes*
Up to the Minute Information	*No*	*Yes*

Introduction to Crystal report

- ✓ SAP Crystal Reports is a Business Intelligence tool which is used to generate reports from both SAP and non-SAP data sources. It enables end users to generate reports that includes exceptional visualizations and implement new business requirements into reports to reduce dependency on IT and Report developers.
- ✓ SAP Crystal Reports can connect to any data source that include Relational databases like Oracle, OLAP data source systems like BW, or also with XML data. You can create a simple report or you can also use complex or specialized tool of Crystal Reports to create advance level reports for end users. It is mostly used for pixel perfect reporting for CEO's and Managers.

Benefits of Using Crystal Reports

- ✓ Flexible and customized report − You can quickly create highly formatted, pixel-perfect reports using SAP Crystal Reports with high level design interface and efficient workflows.
- ✓ Powerful report delivery options − You can deliver personalized reports to your business end-users in their preferred language and format.
- ✓ Data source connectivity − You can connect to information sources directly. Data sources include: Native, ODBC, OLE DB, and JDBC connectivity to relational, OLAP, web services, XML, enterprise data sources, and salesforce.com.
- ✓ Expanded support for Excel − You can take full advantage of the Excel file format by allowing more data to be exported to a single worksheet, without spanning multiple worksheets.
- ✓ Windows operating system compatibility − SAP Crystal Reports software 2013 is certified compatible with Microsoft Windows 7.

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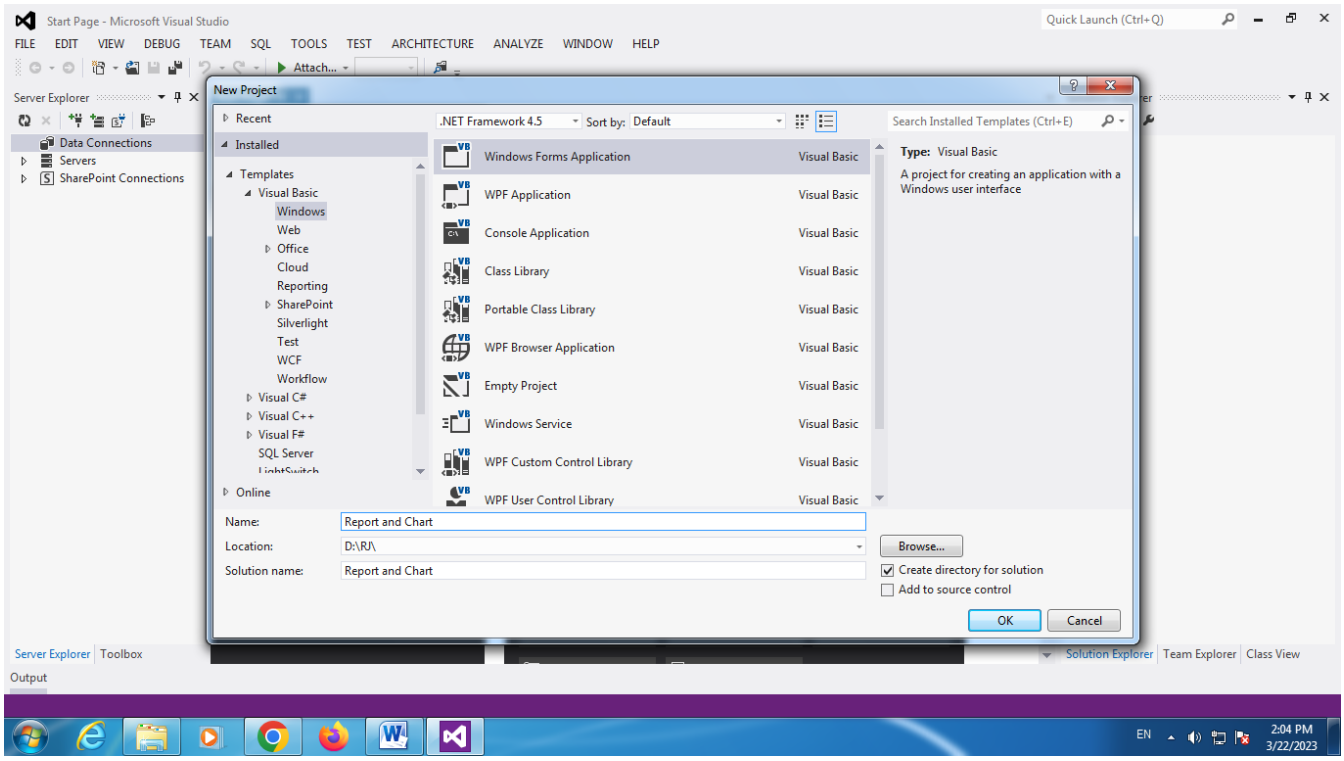
- ✓ Mobile compatibility − You can also open interactive reports through your mobile devices.
- ✓ SAP Crystal Reports, Adobe Flash and HTML 5 integration − It enables SAP Crystal Reports developers to produce powerful "mash-ups" pulling data from various sources.
- ✓ Competitors − SAP Crystal Reports competes with several products in Microsoft market like SQL Server Reporting Services SSRS, XtraReports, ActiveReports, and List & Label.

Create Crystal Report in VB.NET

Download Crystal Report Tools in SAP Website

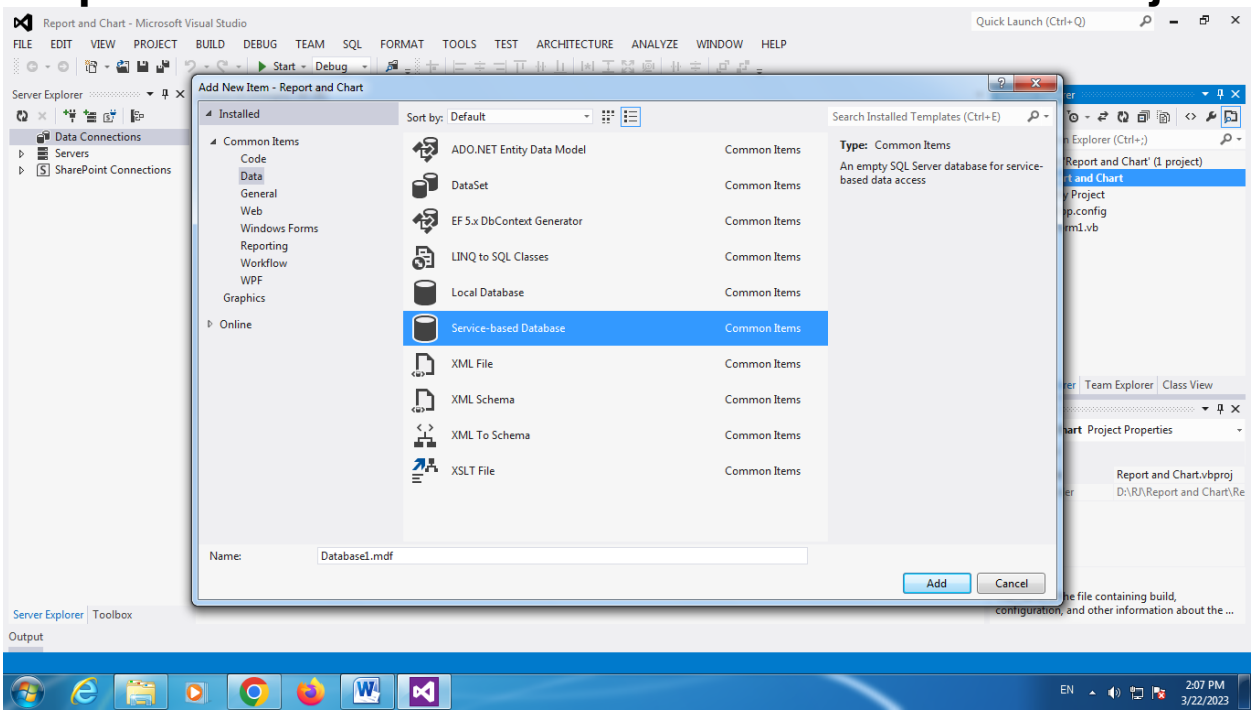
✓ https://www.sap.com/india/index.html?url_id=auto_hp_redirect_india

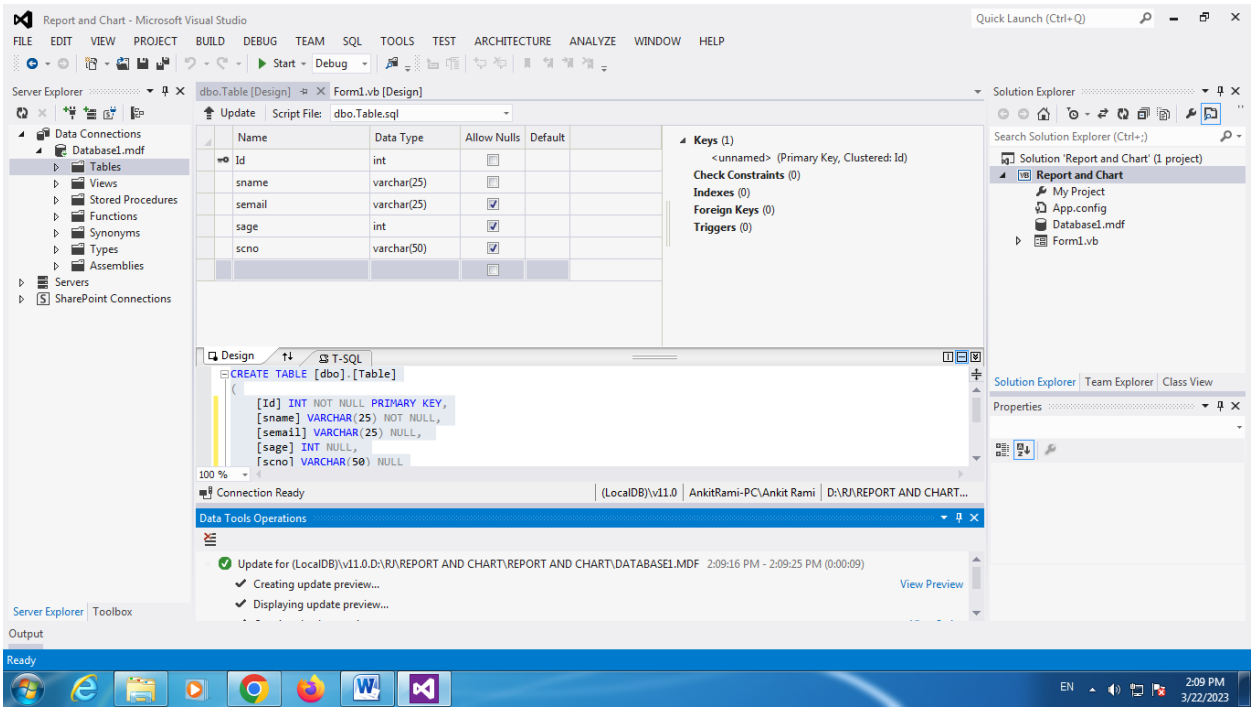
✓ **Step-1 Create Windows Project in Visual Studio**



Desktop Application Development-II

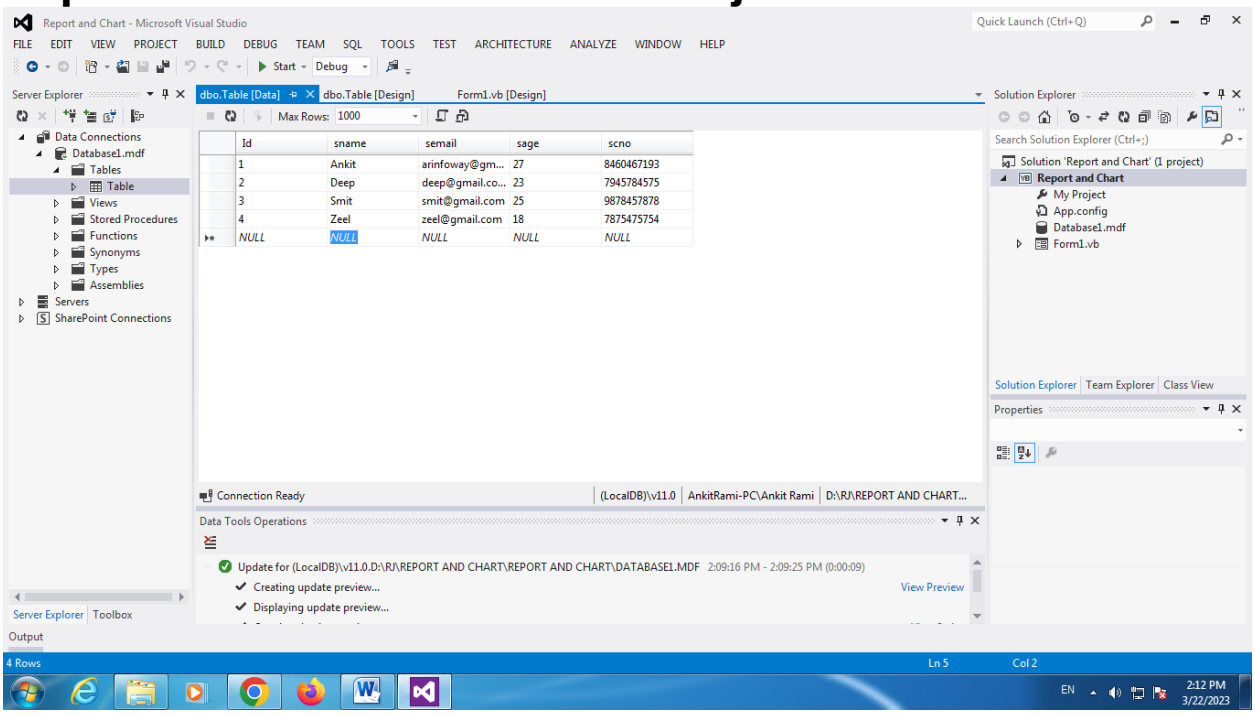
✓ Step-2 Create Database and Table in Windows Project



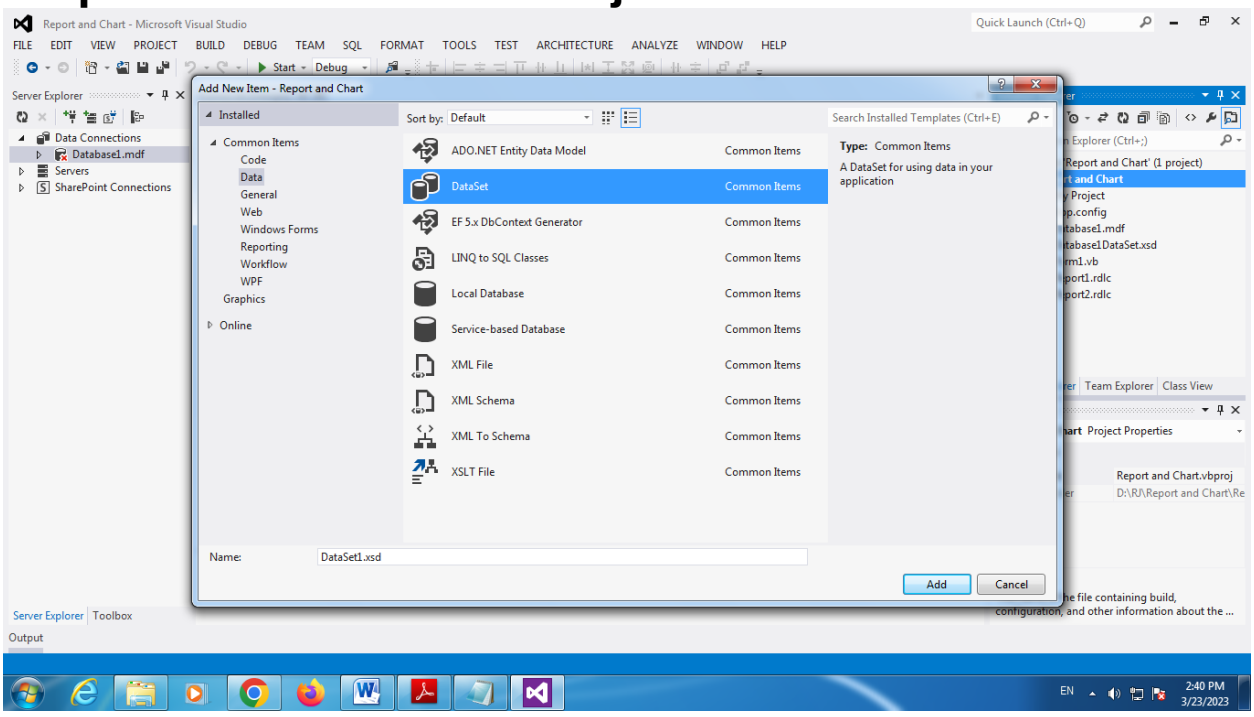


Desktop Application Development-II

✓ Step-3 Add Data in Database Project



✓ Setp-4 Add Data Set in Project



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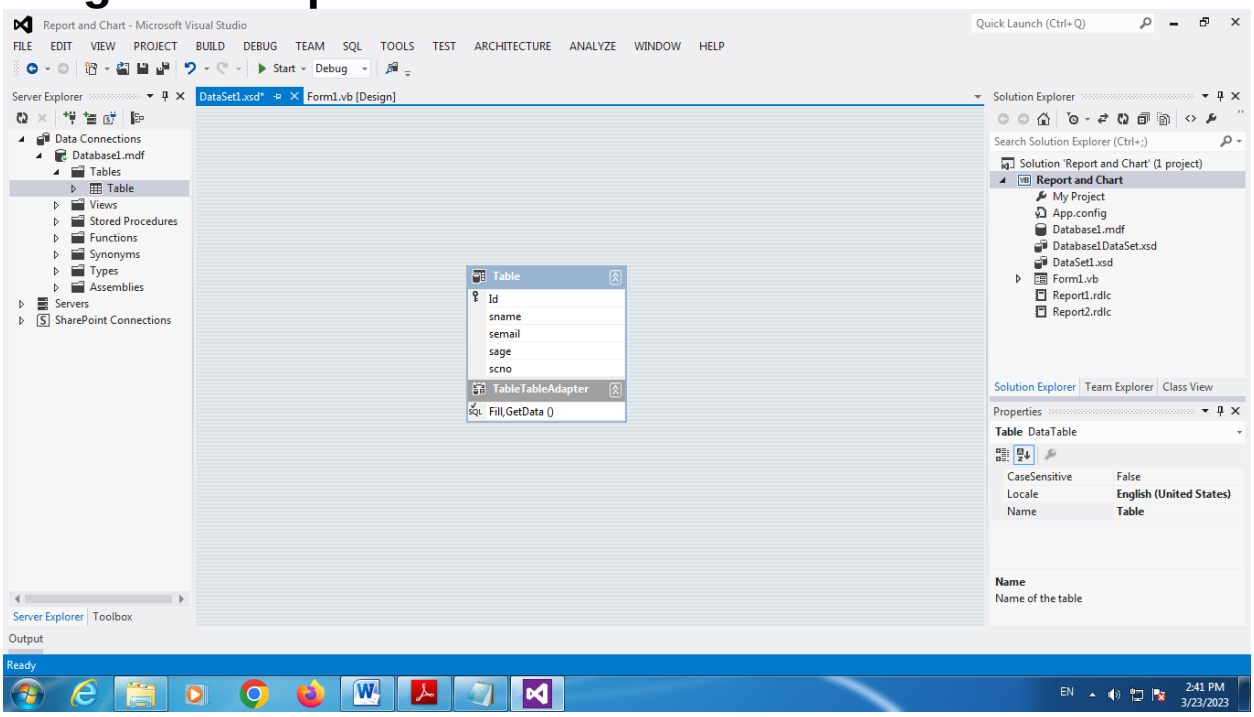
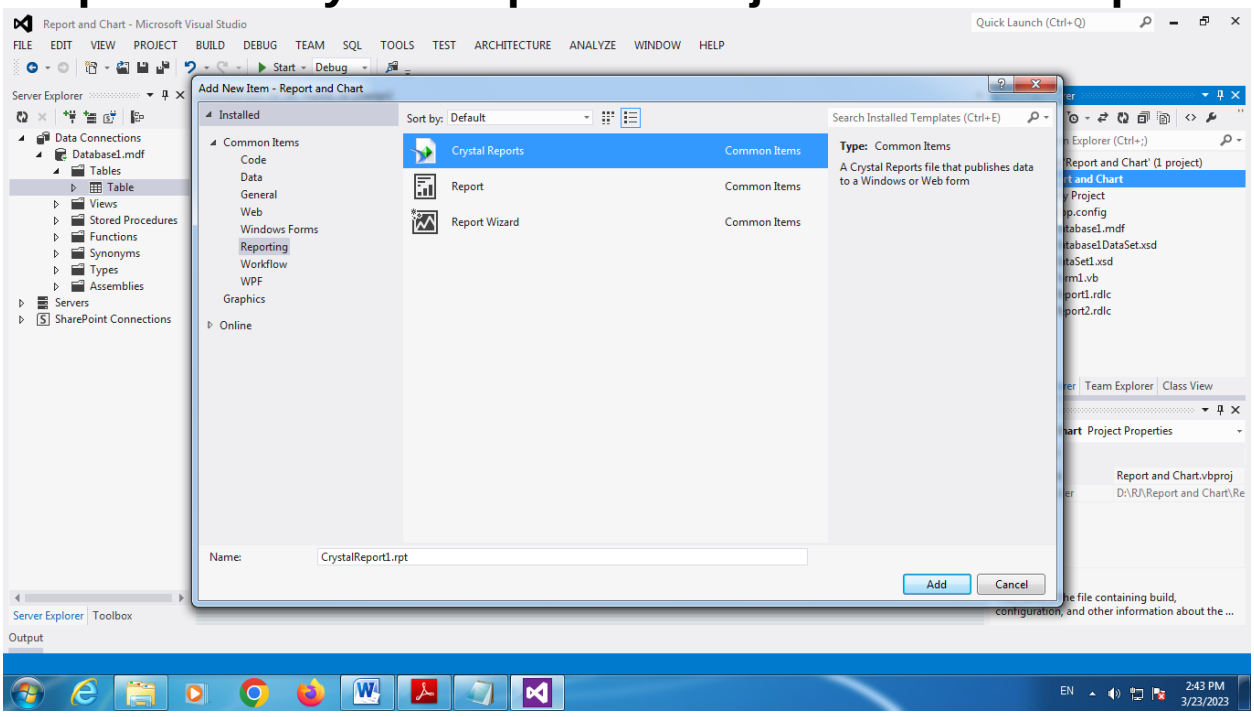
✓ Drag and Drop Database Table in Dataset

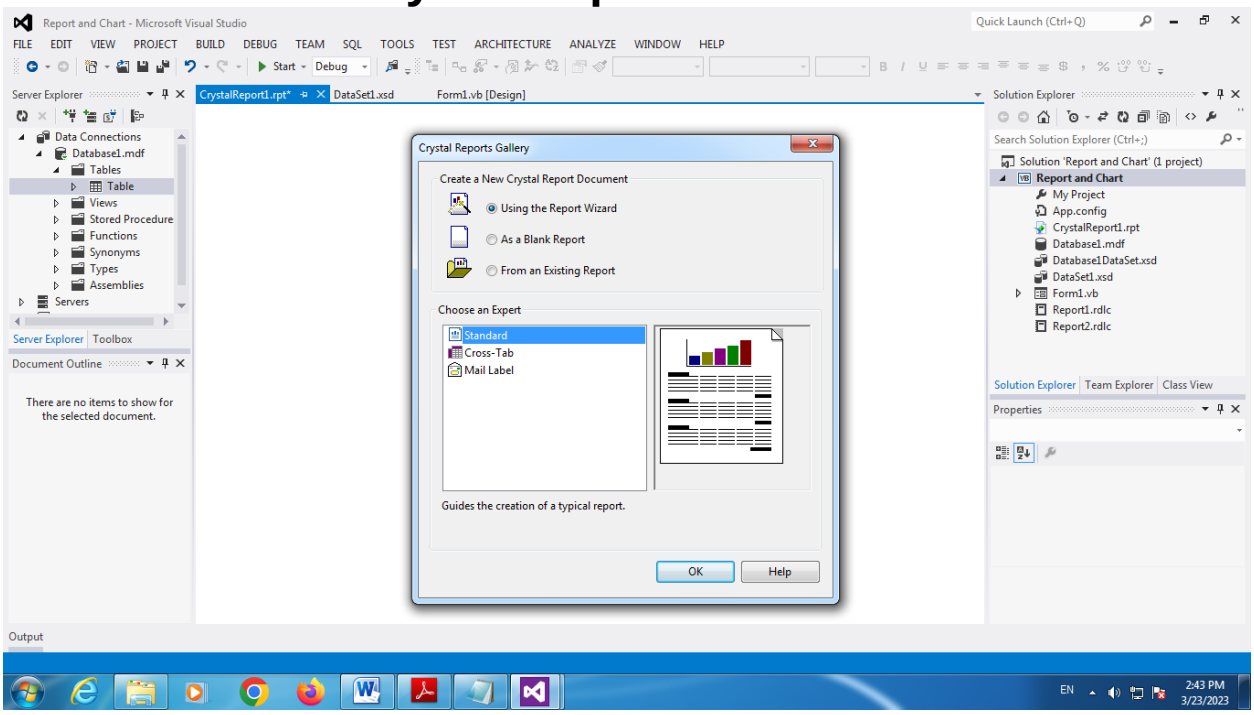


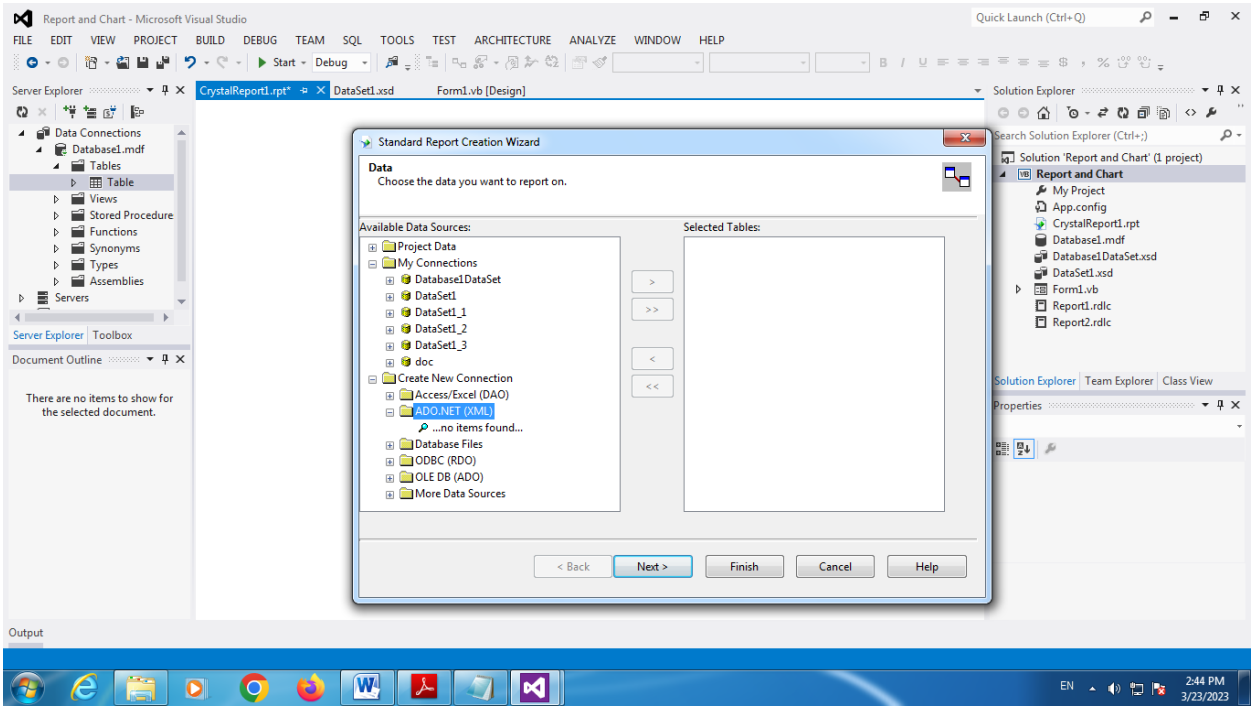
✓ Setp-5 Add Crystal Report in Project Solution Explore



Desktop Application Development-II

✓ Add Dataset in Crystal Report





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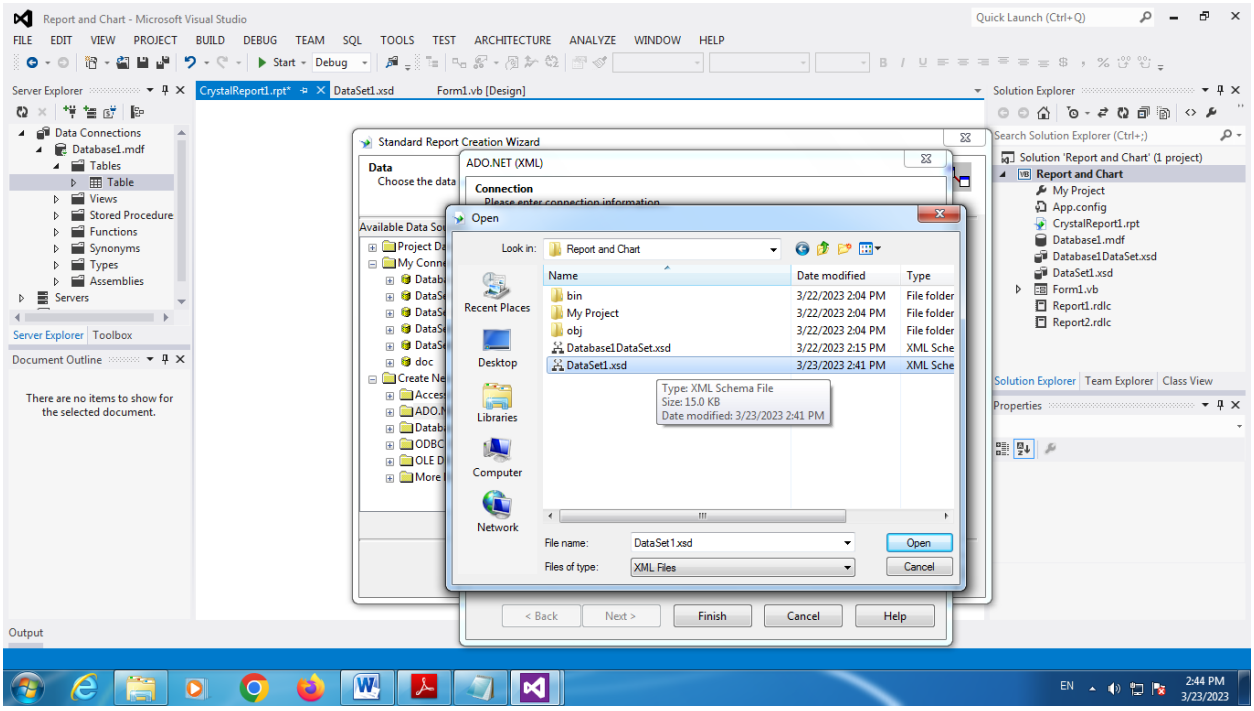
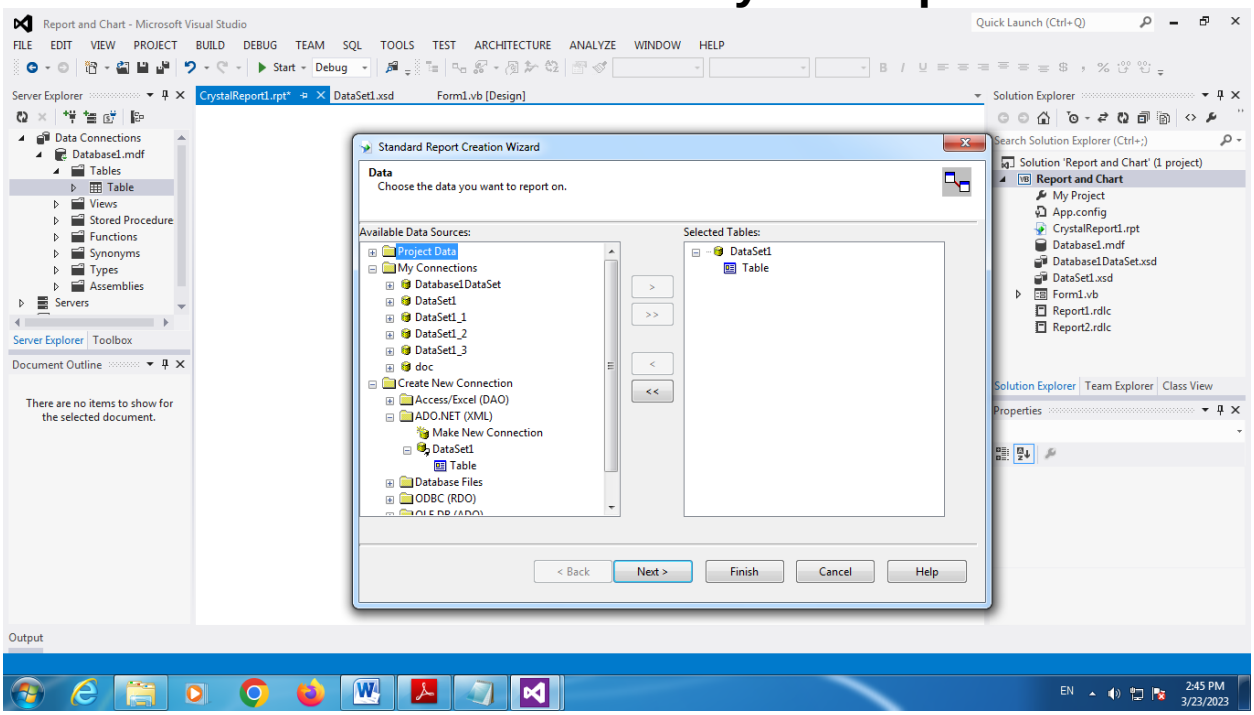
✓ Select Dataset



✓ Add Dataset Table Value in Crystal Report



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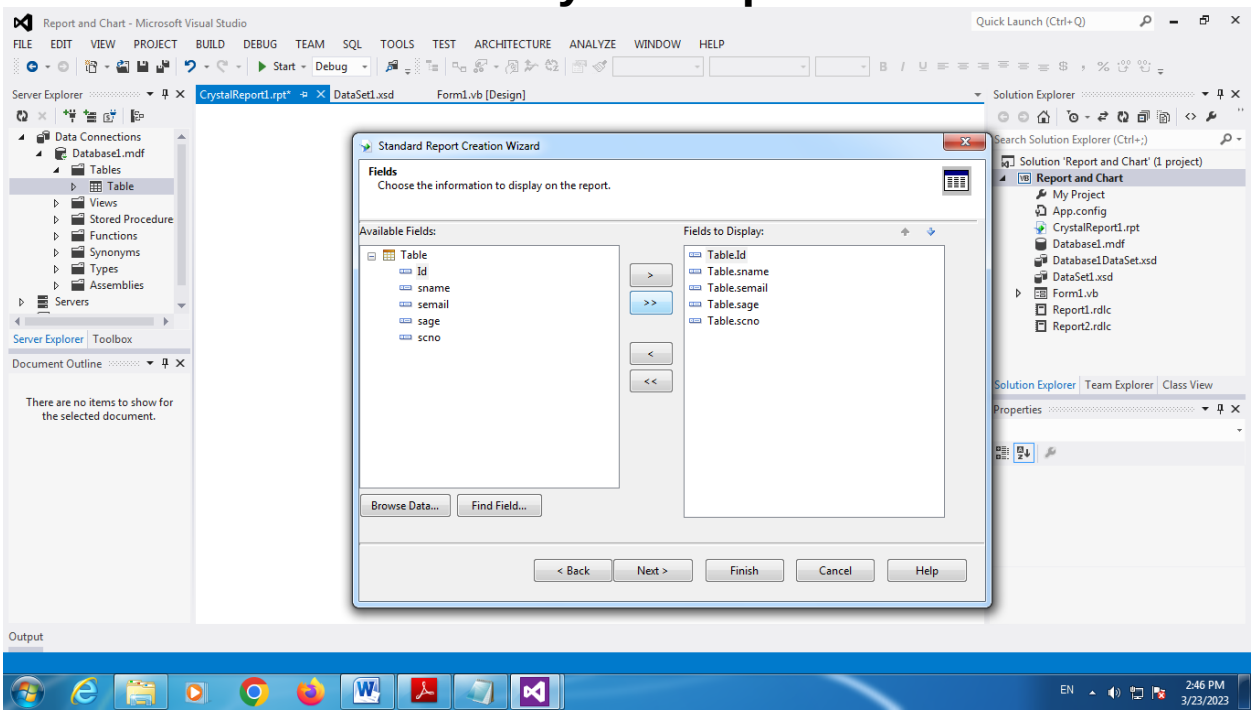
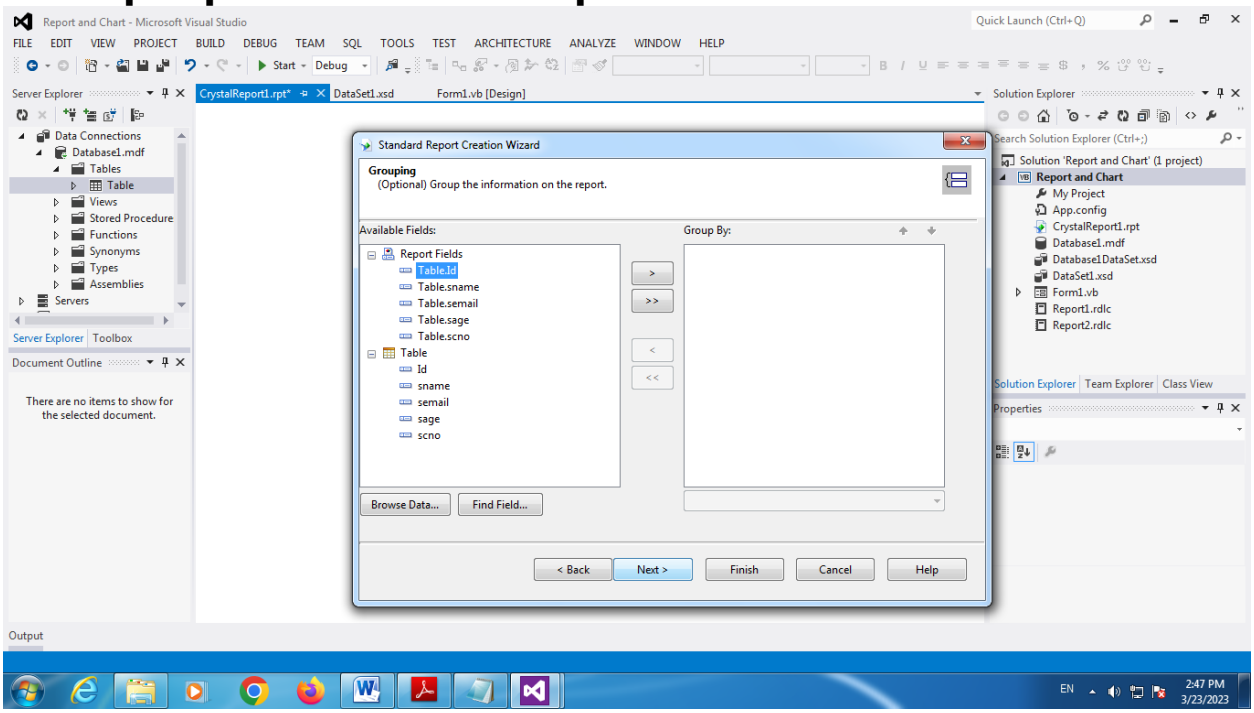
✓ Select Field Data in Crystal Report

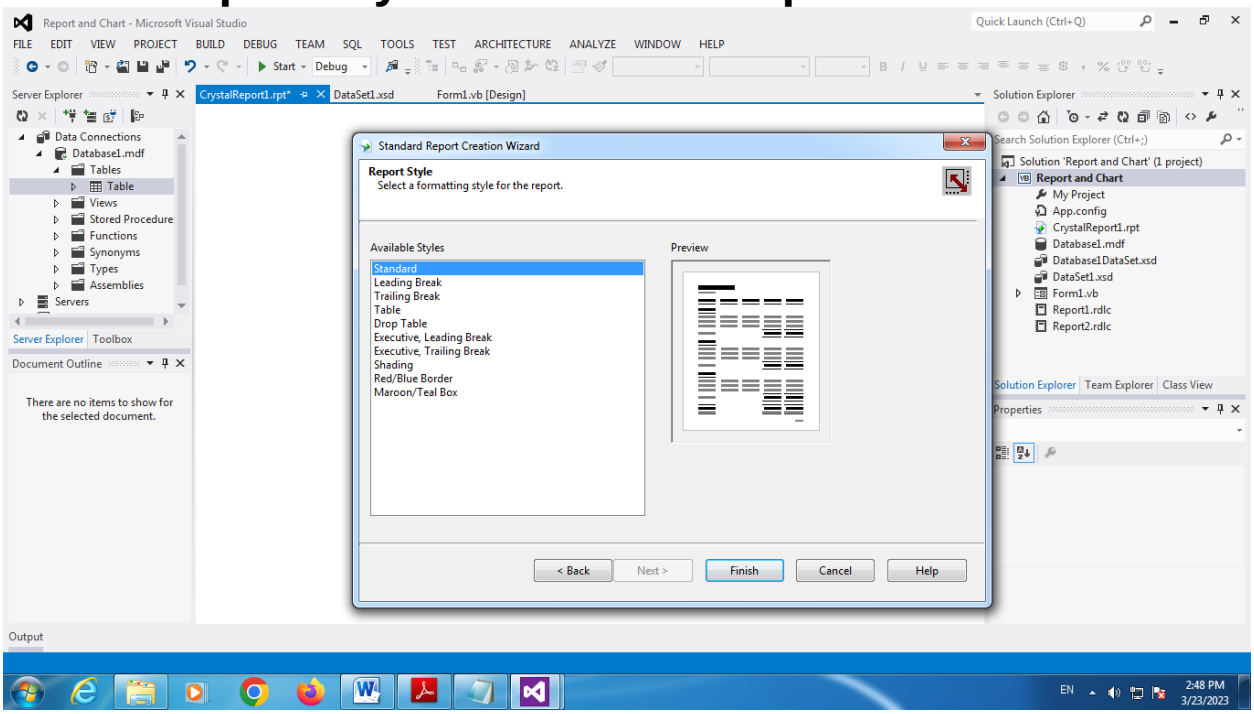


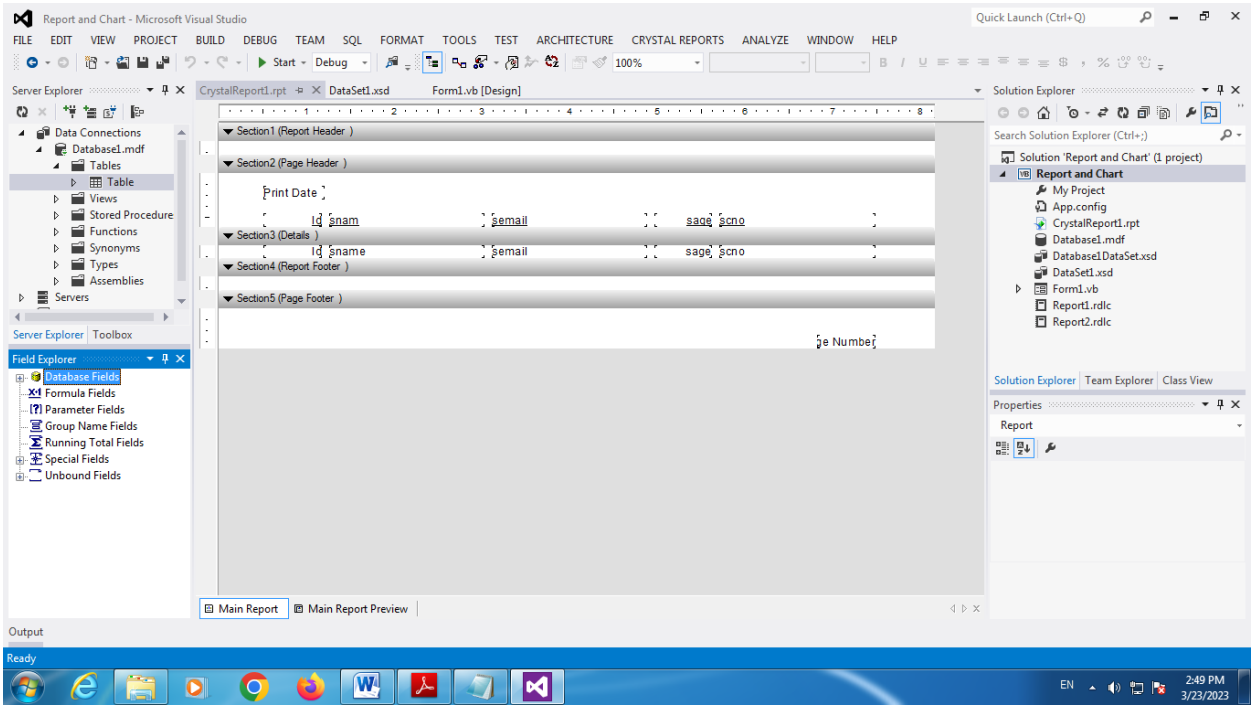
✓ Skip Optional Filed Step



Desktop Application Development-II

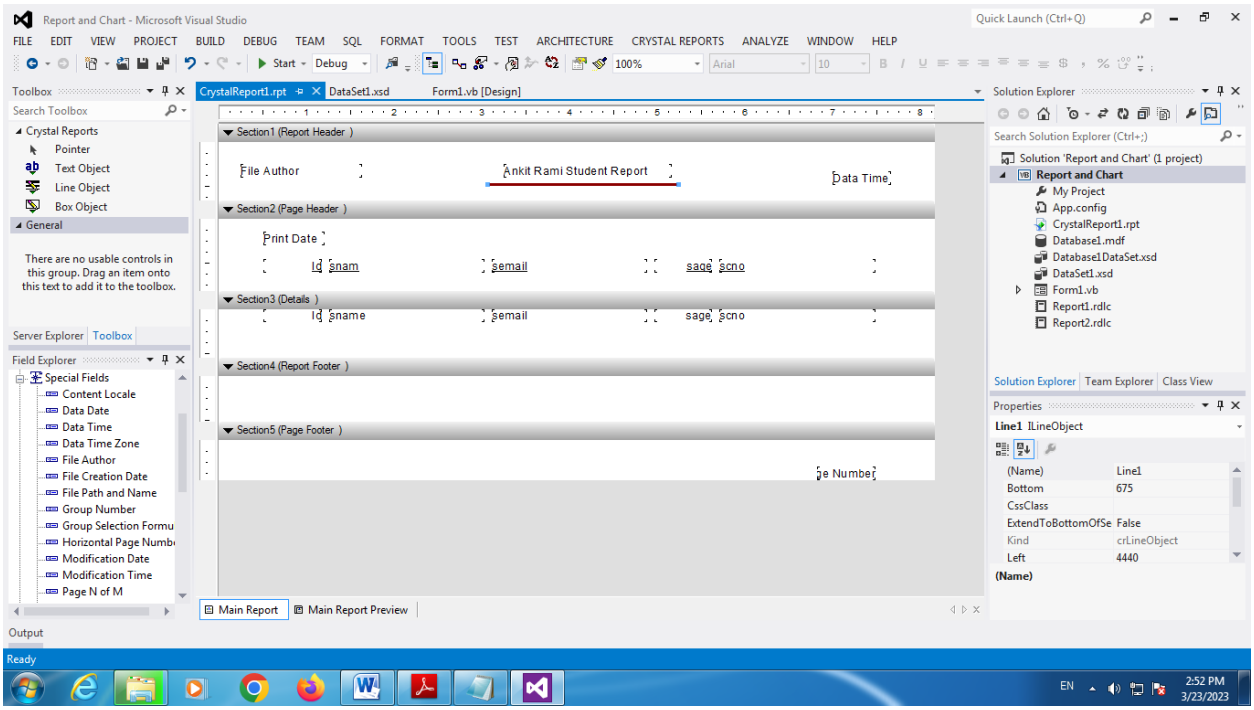
✓ Select Report Style and Finish Step



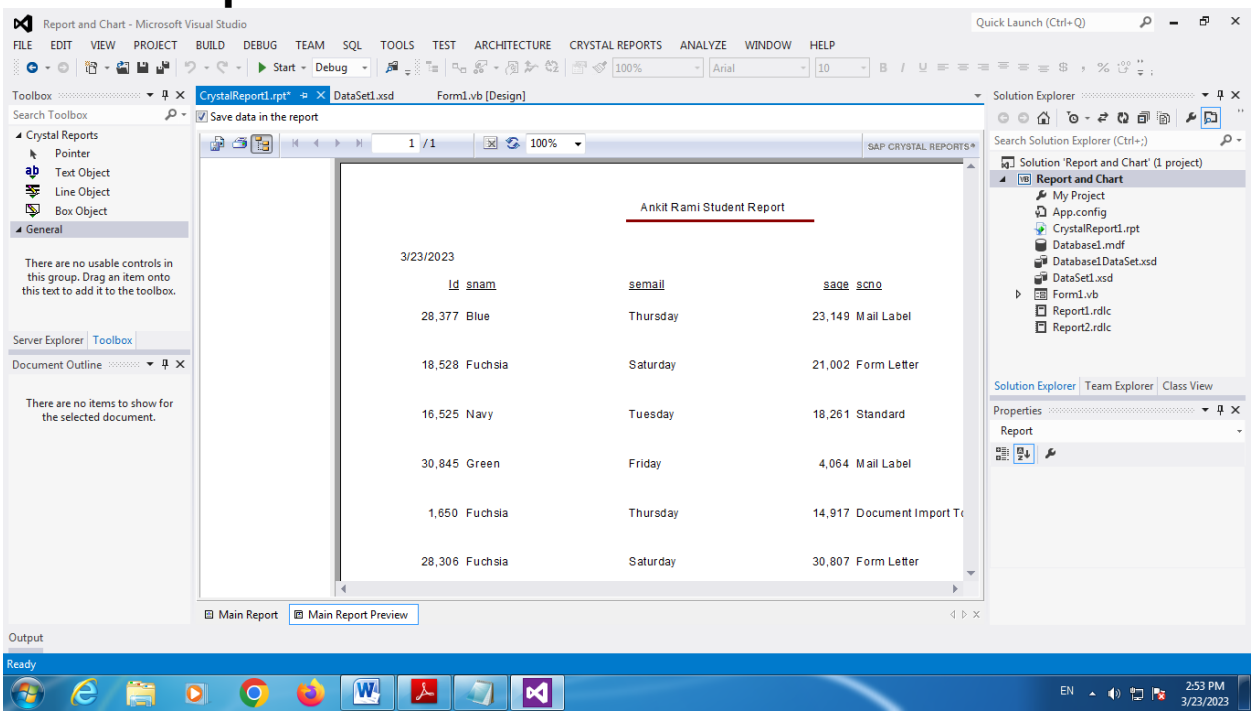


Desktop Application Development-II

✓ Customize Report

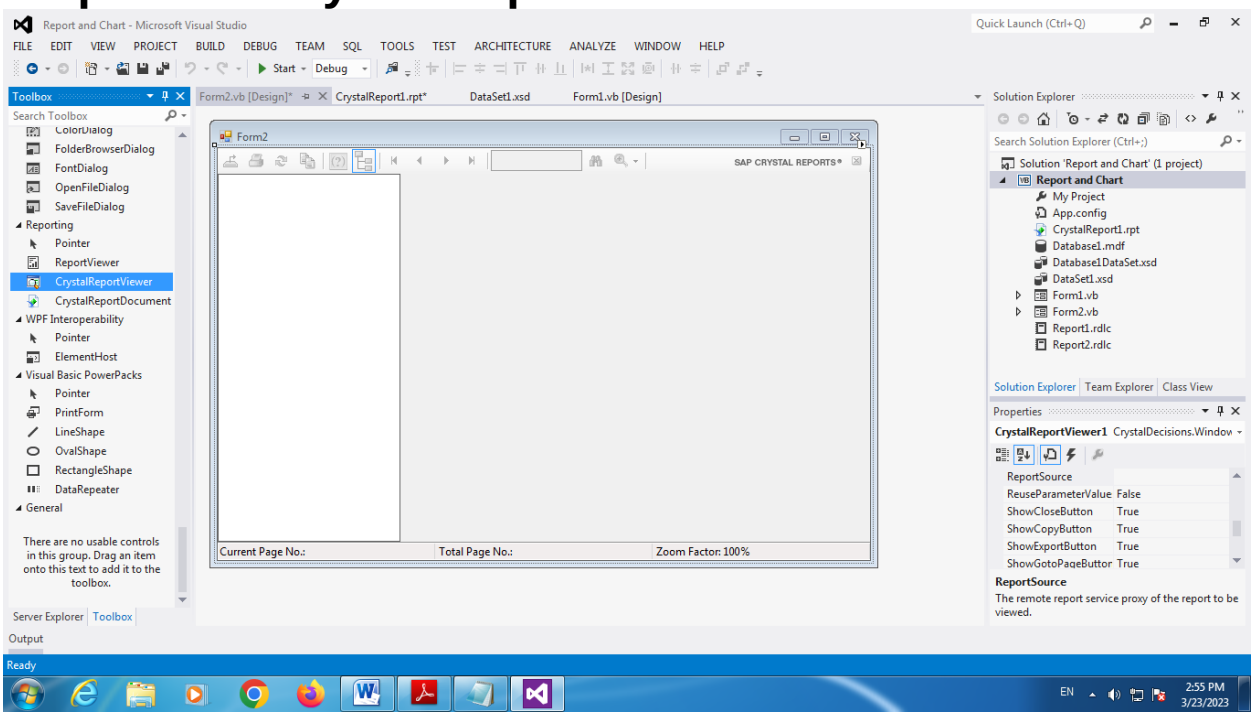


✓ Check Report Preview

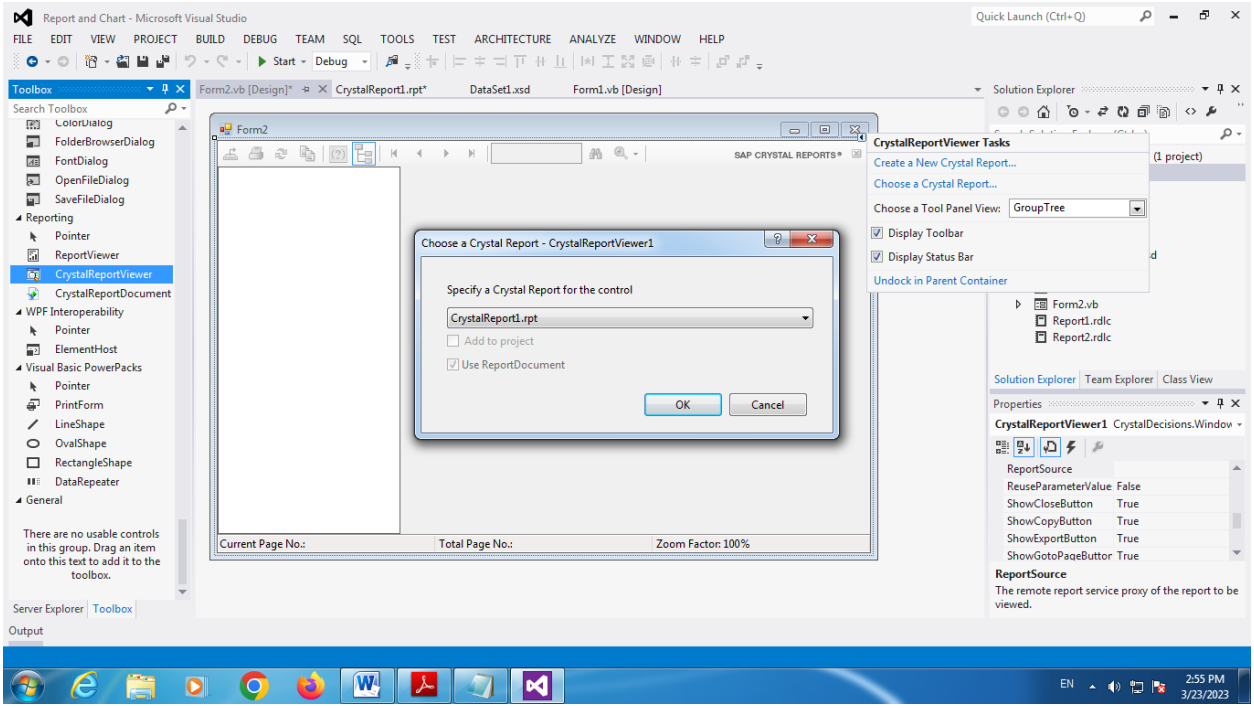


Desktop Application Development-II

✓ Setp-6 Add Crystal Report Viewer in Windows Form

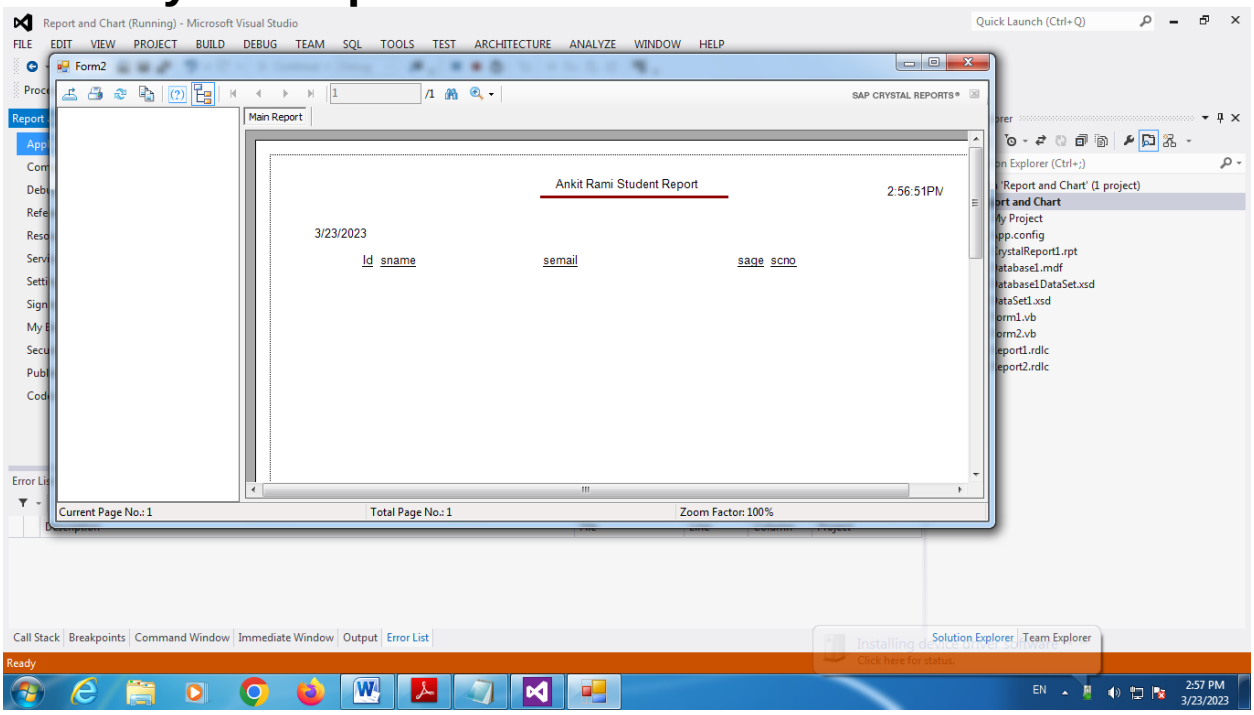


✓ Link Report in Crystal Report Viewer



Desktop Application Development-II

✓ Run Crystal Report Windows Form



Reference Link

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