

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.
- \checkmark 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.
- \checkmark 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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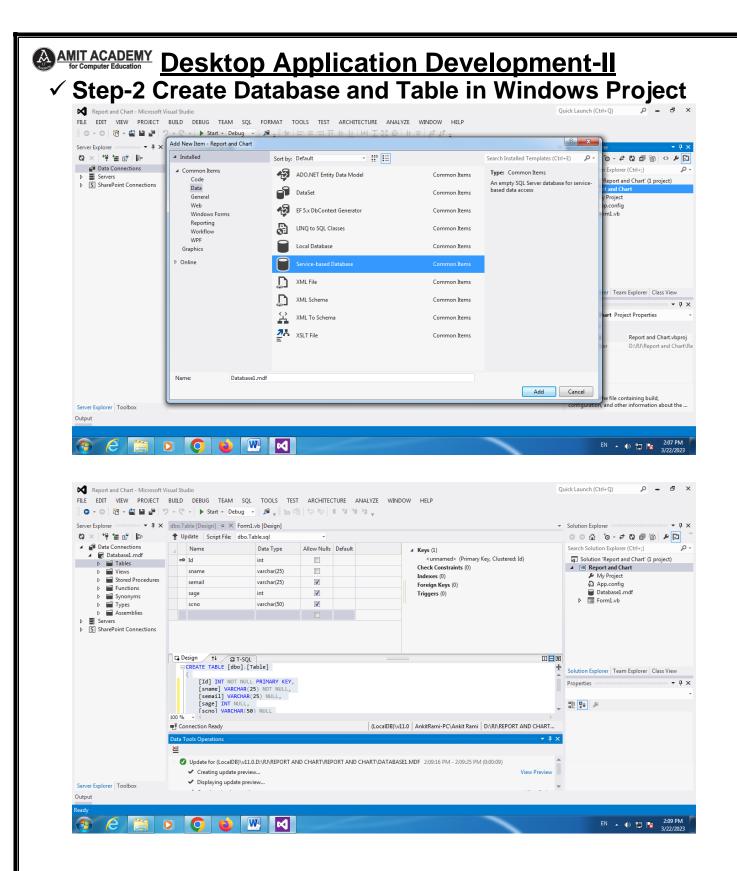
Simple Report vs Crystal report in VB.NET

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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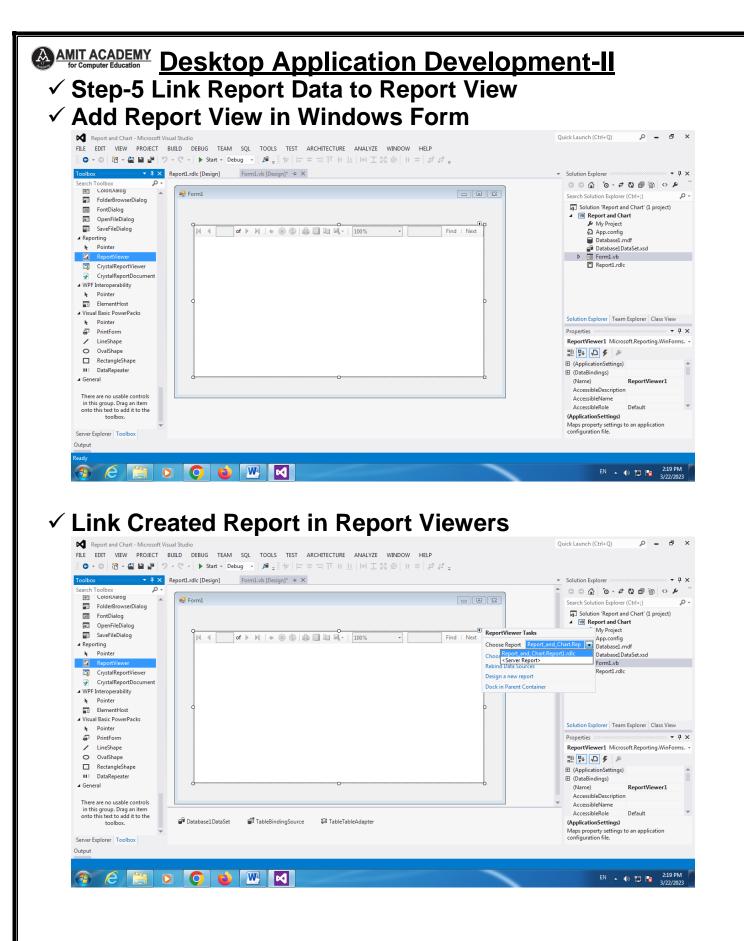
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Introduction to chart

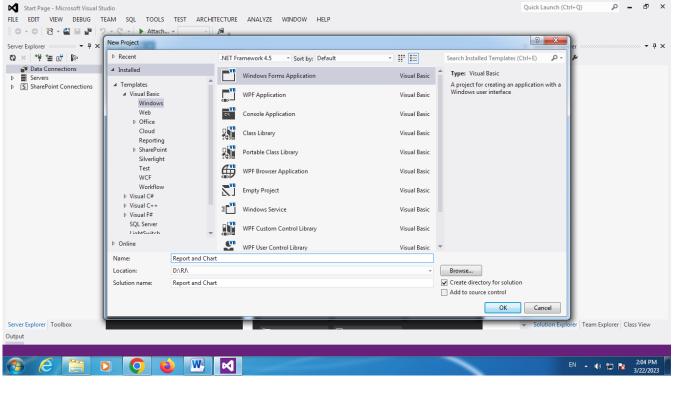
- A chart (sometimes known as a graph) is a graphical representation for data visualization, in which "the data is represented by symbols, such as bars in a bar chart, lines in a line chart, or slices in a pie chart
- ✓ A Chart Control is a User Control option that enables you to display chart data in 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.

✓ Types of charts

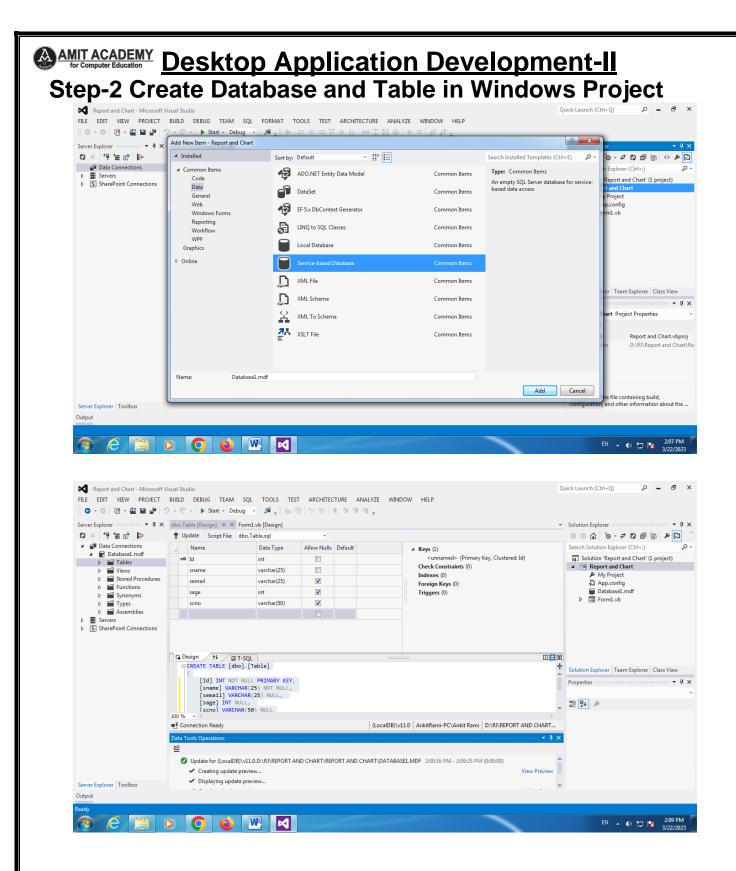
- There are a wide variety of charts available to display data. The list below contains those that are popular and supported by many programs.
- ✓ Area chart
- ✓ Bar chart
- ✓ Column chart
- ✓ Excel spark lines
- ✓ Flow chart
- ✓ Gantt chart
- ✓ Graph
- ✓ Line chart
- ✓ Pie chart
- ✓ Point chart

Create Charts Report in VB.NET

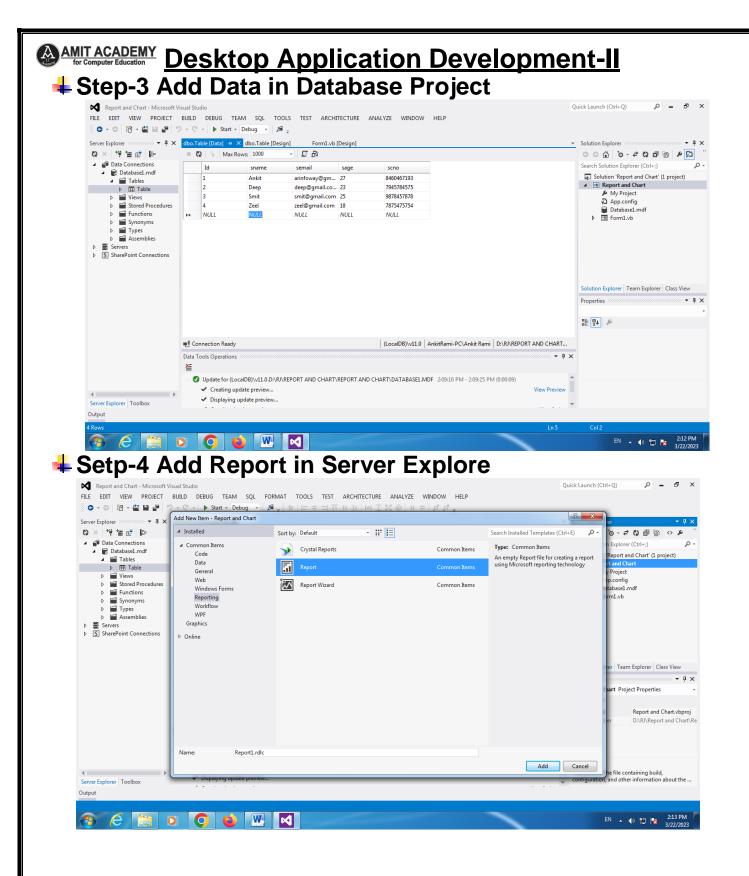
Step-1 Create Windows Project in Visual Studio



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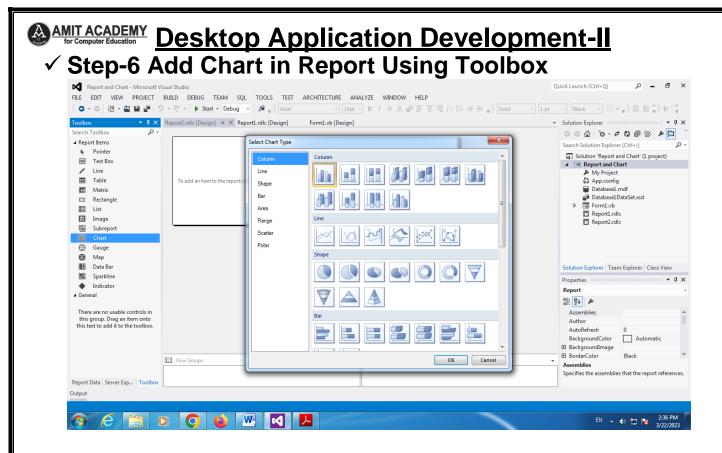
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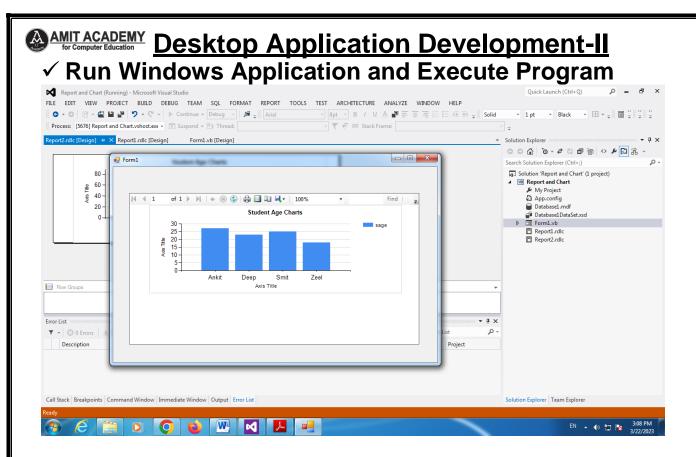
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Comparison of Report and Chart

	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	

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AMIT ACADEMY for Computer Education Desktop Application Development-II 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.

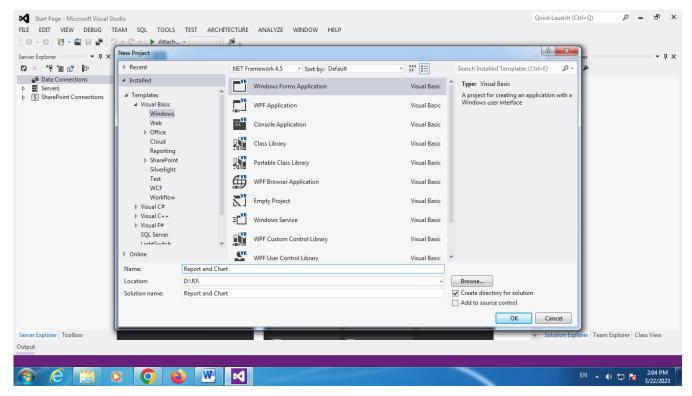
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- Mobile compatibility You can also open interactive reports through your mobile devices.
- ✓ SAP Crystal Reports, Adobe Flash and HTML 5 integration It enables SAP Crystal Reports developers to produce powerful "mash-ups" pulling data from various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

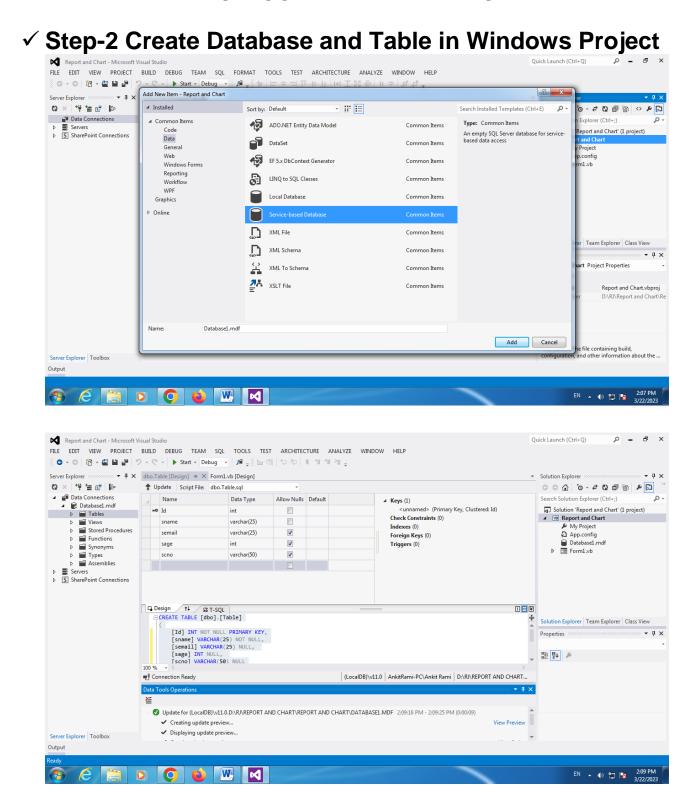
Create Crystal Report in VB.NET

4 Download Crystal Report Tools in SAP Website

- <u>https://www.sap.com/india/index.html?url_id=au</u> to_hp_redirect_india
- ✓ Step-1 Create Windows Project in Visual Studio



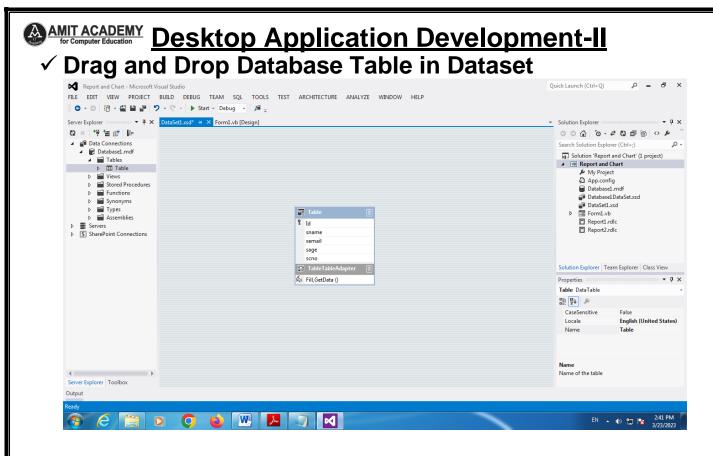
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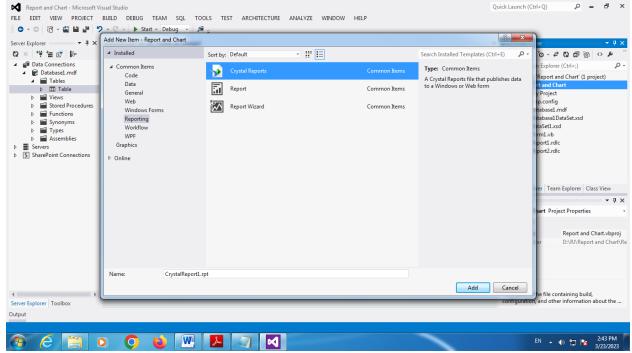
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AMIT ACADEMY for Computer Education **Desktop Application Development-II** A) ✓ Step-3 Add Data in Database Project р <u>–</u> в х Ouick Launch (Ctrl+O) FILE EDIT VIEW PROJECT BUILD DEBUG TEAM SQL TOOLS TEST ARCHITECTURE ANALYZE WINDOW HELP © - ○ 菅 - 🎬 🔛 🔐 🤊 - 약 - 🕨 Start - Debug - 🔎 🛫 Server Explorer 🐨 🗣 🗙 dbo.Table [Data] 😑 🗙 dbo.Table [Design] Form1.vb [Design] Solution Explorer • # × 에 한 달 달 🕅 🗏 🚱 🛸 Max Rows: 1000 - I D ර ර ර ර ර ර ර ර ර ර Data Connections Database1.mdf Tables Q Id Search Solution Explorer (Ctrl+;) sname semail scno sage Ankit arinfoway@gm... 27 8460467193 Solution 'Report and Chart' (1 project) B Report and Chart My Project 2 7945784575 Table Deep deep@gmail.co... 23 3 Smit smit@gmail.com 25 9878457878 My Project App.config ⊳ 🖬 Views Stored Procedures 4 Zeel zeel@gmail.com 18 7875475754 Database1.mdf NULL Functions ▶ NULL NULL NULL NULL Form1.vb Synonyms Þ Types Assemblies Servers SharePoint Connections Solution Explorer | Team Explorer | Class View Properties • • • × ₽: 2↓ *№* Connection Ready | (LocalDB)\v11.0 | AnkitRami-PC\Ankit Rami | D:\RJ\REPORT AND CHART.. • 1 × Data Tools Operations × Update for (LocalDB)\v11.0.D:\RJ\REPORT AND CHART\REPORT AND CHART\DATABASE1.MDF 2:09:16 PM - 2:09:25 PM (0:00:09) View Preview Creating update preview. 4.11 Displaying update preview. Server Explorer Toolbox Output 🙆 🔛 🧿 🖕 🔣 EN 🔺 🕪 🛱 😼 2:12 PM **?** ✓ Setp-4 Add Data Set in Project р 🗕 🗗 🗙 Report and Chart - Microsoft Visual Studio Quick Launch (Ctrl+Q) FILE EDIT VIEW PROJECT BUILD DEBUG TEAM SQL FORMAT TOOLS TEST ARCHITECTURE ANALYZE WINDOW HELP o - o 🔞 - 🗳 🖬 🖓 - 🤆 - 🕨 Start - Debug - 🖉 - 👘 🖃 = 🗐 🗍 Add New Item - Report and Chart ? × Server Explorer 🗐 🐮 🖆 🐈 🛛 ▲ Installed Search Installed Templates (Ctrl+E) Sort by: Default p. - Z Q 🗇 🗟 🗠 🗡 🖸 ▲ 🗿 Data Connections ∡ Common Items nlorer (Ctrl+· Q ADO.NET Entity Data Model Type: Common Items Common Items Database1.mdf Code Report and Chart' (1 project) A DataSet for using data in your Servers Data S SharePoint Connections DataSet application General roiect Web -onfig EF 5.x DbContext Generator Common Items Windows Forms ase1.mdf ase1DataSet vsd Reporting LINQ to SQL Classes Common Items n1.vb Workflow WDF rt1.rdlc Local Database Common Items ort2.rdlc Graphics Online Service-based Database Common Items XML File Common Items Team Explorer Class View XML Schema Common Items • 4 × Project Properties XML To Schema Common Items XSLT File Common Item Report and Chart.vbproj D:\RJ\Report and Cha Name: DataSet1.xsd Add Cancel ne file containing build, and other information about the .. Server Explorer Toolbox Output 💿 💿 😆 💌 🔼 EN 🔺 🕪 🙄 😼 2:40 PM 1

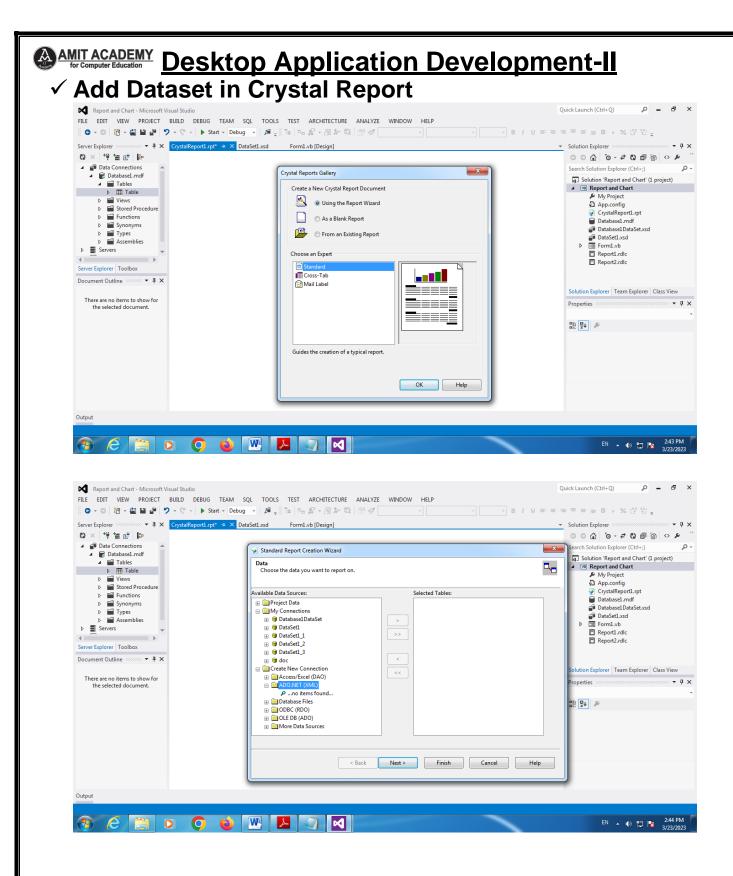
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✓ Setp-5 Add Crystal Report in Project Solution Explore



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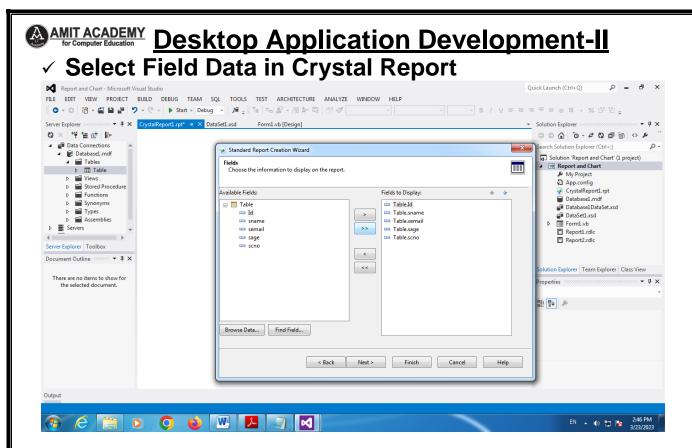
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AMIT ACADEMY for Computer Education Desktop Application Development-II ✓ Select Dataset Ø Report and Chart - Microsoft Visual Studio Quick Launch (Ctrl+Q) р _ 8 × FILE EDIT VIEW PROJECT BUILD DEBUG TEAM SQL TOOLS TEST ARCHITECTURE ANALYZE WINDOW HELP © - ○ 📅 - 4월 🔐 🥐 - ♡ - ♡ - 🕨 Start - Debug - - 🔎 🚝 🚽 🔚 🗠 🖉 - 例 차 42 🗇 🛷 - B / ビョニヨヨヨ + S , % ピッ ···· ▼ 및 X CrystalReport1.rpt* + × DataSet1.xsd Server Explorer Form1.vb [Design] Solution Explorer 🛯 × 👎 🖆 🕼 ා ර 🖌 🗿 🖓 🗲 - ව 🗊 🕼 🖌 🖉 Data Connections ρ. 23 Search Solution Explorer (Ctrl+;) Standard Report Creation Wizard 🖌 📻 Database1.mdf Solution 'Report and Chart' (1 project) 23 ✓ 🖬 Tables ▷ 🏢 Table Data Choose the data ADO.NET (XML) 4 Connection My Project App.config CrystalReport1.rpt Database1.mdf ⊳ Views Stored Procedure Functions 🦻 Open Available Data Sou Synonyms 🛞 🧰 Project Da Þ Look in: 🕕 Report and Chart - 🗿 🎓 📂 🗔-Database1DataSet.xsd Types Assemblies 🖃 🦲 My Conne DataSet1.xsd ⊕ Datab ⊕ ⊕ DataS Recent Places Name Date modified Type bin My Project Þ E Form1.vb 3/22/2023 2:04 PM File folder Servers Report1.rdlc 🗉 🞯 DataSe 3/22/2023 2:04 PM File folder 41 • 🗉 😝 DataS 3/22/2023 2:04 PM 🔒 obj File folder Server Explorer Toolbox 🕀 🎯 DataSe 음 Database1DataSet vsd 3/22/2023 2:15 PM XML Sche Document Outline 🔹 👎 🗙 🖃 😝 doc Desktop 3/23/2023 2:41 PM XML Sche A DataSet1.xsd Create N Cibraries olution Explorer Team Explorer Class View Type: XML Schema File Size: 15.0 KB There are no items to show for the selected document. Acces • 4 × roperties 🕀 🧰 ADO.I Date modified: 3/23/2023 2:41 PM 🗉 🧰 Data 🗄 🦲 ODBC 8≣ **2**↓ *№* 🗉 🧰 OLE D Computer 🗉 🧰 More ١ • 111 Network File name: DataSet1xsd • Open Files of type XML Files • Cancel < Back Next > Finish Cancel Help Output EN 🔺 🜓 🔛 🍡 2:44 PM 3/23/2023 6 📋 🔾 🔘 😆 🔣 🔼 7 1

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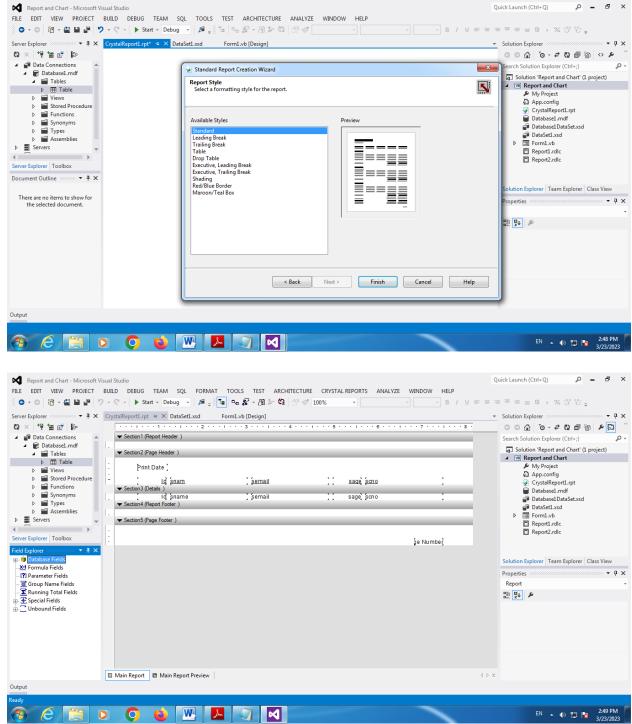


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✓ Customize Report

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