**SSRS Lab - 1**

**Introduction**

Choose the Northwind database for this assignment.

**Creating a Database**

**Step 1: Open SSMS and Connect to a Data Engine**

1. Launch SQL Server Management Studio (SSMS).

2. Connect to the desired data engine by providing valid server credentials.

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**Step 2: Restore Database**

1. Right-click on "Databases" in the Object Explorer.

2. Select the "Restore Database" option.

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**Step 3: Restore Database from Device**

1. Choose the "Device" option.

2. Locate and move the locally stored database to the specified file path.

3. Select the database file and click "OK."

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4. The file you have selected should appear here, click “OK”.

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5. The added database should now appear in the "Databases" section.

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**Building a Report**

**Step 4: Open Visual Studio 2022 and Create a Blank Report**

1. Launch Visual Studio.

2. Select the "Create a new project".

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3. Select “Report server project wizard” or “Report server project”.

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4. Name your report and create.

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**Step 5: Configure Data Sources**

1. Go to “View”, select “Solution explorer”.

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2. Follow this in the solution explorer on reports.

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3. Select “Report”, click on “Add”.

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4. You should see a design canvas.

5. In the left panel, right click on data sources to add data source.

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6. Name your “Data source” and click "Build" to configure the connection.

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7. Specify the Server name.

8. Select the database you added in SSMS.

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9. Click "OK" and then "OK" again to save the data source.

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**Step 6: Create Datasets**

1. Right-click on "Datasets" and select "Add Dataset."

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2. Name your dataset.

3. Choose the "Use a dataset embedded in my report" option.

4. Select the data source you just added.

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5. Click "Query Designer" to define the dataset query.

**Step 7: Define Dataset Query**

1. The Query Designer will display the following.

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2. Right click to add table and select columns to show on your report.

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3. It will generate a query based on the dataset properties.

4. Alternatively you can modify the query as needed to obtain the desired output, or just write a query to begin with, without selecting the tables & columns.

5. Click "OK" to save the dataset.

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**Step 8: Design the Report**

1. Right-click on the report canvas and select "Insert -> Table."

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2. A table template will appear.

3. In a data cell, click the icon in the top-right corner to display the selected columns.

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4. Choose the columns you want to display in the report.

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5. Customize header cells to display preferred column names.

**Step 9: Insert Rows/Columns**

1. To insert rows or columns, right-click on a cell, go to "Insert Row" or "Insert Column."

**Step 10: Beautify the Report**

1. Enhance the report's appearance by adjusting fonts, colors, and formatting, similar to Excel.

**Step 11: Finalize Report Design**

1. Once the report design is complete, save your work.

**Step 12: View your Report.**

1. Click the "Preview Report" button located in the top-left corner below the "File" menu.

2. Your report will be displayed with the data you configured.

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You can go back to make changes by clicking on “Design”