

417535 : Computer Laboratory IV

Part II : Elective VI

417532 (B) : Business Intelligence

Title : Importing Data

Problem : Import Data from different sources such as statement (Excel, Sql Server) and load in targeted system.

Pre-requisites : Basic understanding of data concepts and familiarity with Microsoft Power BI installation and interfaces.

Learning objectives : Understand the data loading process in Power BI.

Theory : Power BI allows you to connect to various data sources to import, transform and visualize the data. Two common sources are Excel and SQL Server.

A) Importing Data from Excel in Power BI

- i) Open Power BI Desktop and click on the Home tab.
- 2) Select 'Get Data' and choose 'Excel' from the list of connectors.
- 3) Navigate to the location of your Excel file and select it.

Theory: 4) Choose the specific table or range you want to import.

5) Click 'Load' to import the data into Power BI.

6) In Power BI Desktop, you can now visualize and analyze the Excel data.

B) Importing Data from SQL Server into Power BI:

1) Open Power BI Desktop and click on the 'Home' tab.

2) Select 'Get Data' and choose 'SQL Server' from the list of connectors.

3) Enter the server details, including server name and authentication.

4) Choose the database and select the tables you want to import.

5) Click 'Load' to bring SQL Server data into Power BI.

6) Power BI will establish connections and load the data for analysis.

7) In Power BI Desktop, you can now create relationships and build reports using the SQL Server data.

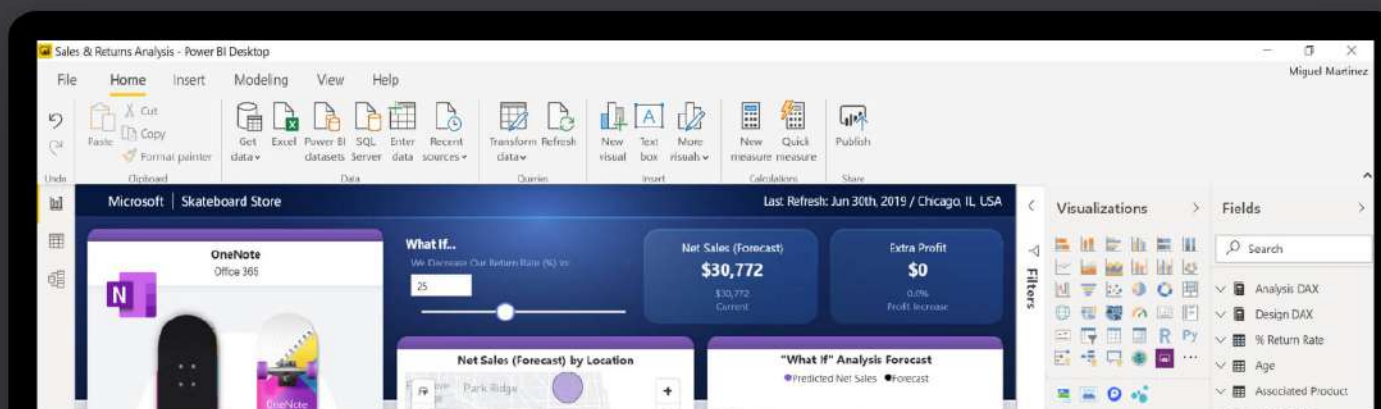
Conclusion: Thus, we have successfully imported Data from different sources such as (Excel, SQL Server) and loaded in target system ie Power BI.

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SQL Server Management Studio (SSMS) is an integrated environment for managing any SQL infrastructure, from SQL Server to Azure SQL Database. SSMS provides tools to configure, monitor, and administer instances of SQL Server and databases. Use SSMS to deploy, monitor, and upgrade the data-tier components used by your applications and build queries and scripts.

Use SSMS to query, design, and manage your databases and data warehouses, wherever they are - on your local computer or in the cloud.

For customers needing a cross-platform companion to SSMS for managing SQL and other Azure databases, use [Azure Data Studio](#).

Download SSMS

[Free Download for SQL Server Management Studio \(SSMS\) 19.3](#)

SSMS 19.3 is the latest general availability (GA) version. If you have a *preview* version of SSMS 19 installed, uninstall it before installing SSMS 19.3. If you have SSMS 19.x installed, installing SSMS 19.3 upgrades it to 19.3.

- Release number: 19.3
- Build number: 19.3.4.0
- Release date: January 10, 2024

By using SQL Server Management Studio, you agree to its [license terms](#) and [privacy statement](#). If you have comments or suggestions or want to report issues, the best way to contact the SSMS team is at [SQL user feedback](#).

The SSMS 19.x installation doesn't upgrade or replace SSMS versions 18.x or earlier. SSMS 19.x installs alongside previous versions, so both versions are available. However, if you have an earlier *preview* version of SSMS 19 installed, uninstall it before installing SSMS 19.3. You can see if you have a preview version by going to the **Help > About** window.

Additional resources

Training

Learning path

[SQL Server upgrades - Training](#)

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MCSA: SQL 2016 Database Administration

Documentation

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Release notes for SQL Server Management Studio (SSMS).

[SQL Server Management Studio \(SSMS\) - SQL Server Management Studio \(SSMS\)](#)

Learn details about SQL Server Management Studio (SSMS) and what SSMS can do, including how to manage Analysis Services Solutions.

[SSMS setup failed or requires restart - SQL Server Management Studio \(SSMS\)](#)

Troubleshooting SSMS installation problems

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Navigators

Display Options

SampleData.xlsx [1]

☒ Sheet1

Suggested Tables [1]

☐ Table 1 (Sheet1)

Sheet1

| S. No. | Application Ref No. | Application Date | Name |
|--------|---------------------|------------------|-----------------------------|
| 1408 | NR/2020/11213 | 23-12-2020 | vinayak namdev kamble |
| 1441 | NR/2020/11294 | 22-12-2020 | kulkarni chandrashekhar dat |
| 14722 | NR/2021/53716 | 30-06-2021 | SHAIKH KAYYUM DAUD |
| 1812 | NR/2020/12341 | 31-12-2020 | KAMANE KARTIK VAJINATH |
| 16520 | NR/2021/65941 | 17-08-2021 | sonali ramesh bhalerao |
| 2779 | NR/2021/03838 | 15-02-2021 | YOGESH NANDRAM PANDE |
| 876 | NR/2020/08018 | 22-09-2020 | Shaikh Latif Ismail |
| 1766 | NR/2020/12235 | 31-12-2020 | Amol Laxmikant Welde |
| 14713 | NR/2021/53647 | 30-06-2021 | RAJENDRA BALASAHEB LAGA |
| 1839 | NR/2021/00014 | 04-01-2021 | SHAIKH RIZWANA AHMED |
| 2800 | NR/2021/03918 | 16-02-2021 | Wagh Namdev Tukaram |
| 5078 | NR/2021/10480 | 05-06-2021 | Sangram Prabhakar Deshmui |
| 10568 | NR/2021/30890 | 26-06-2021 | Changdeo Manohar Walunj |
| 617 | NR/2020/01041 | 19-02-2020 | RAVINDRA BALASAHEB CHAL |
| 15065 | NR/2021/55875 | 30-06-2021 | Adv.shobha Sudhir Rananava |
| 5595 | NR/2021/11706 | 15-06-2021 | SHAIKH TABASSUM GULAM I |
| 7595 | NR/2021/17791 | 16-06-2021 | Prasad Ganpatrao Ingale |
| 2512 | NR/2021/02757 | 30-01-2021 | Nitin Bhanudas Adsure |
| 2511 | NR/2021/02756 | 30-01-2021 | KADAM CHANDRAKANT TAT |
| 3990 | NR/2021/07915 | 26-05-2021 | RADHAKISAN GULABRAO WA |
| 4371 | NR/2021/08775 | 15-06-2021 | Shaikh Akbar |
| 1938 | NR/2021/00248 | 04-01-2021 | DNYANESHWAR BHIMRAO B |
| 12441 | NR/2021/41002 | 28-06-2021 | Shaikh Latif Ismail |

Load

Transform Data

Cancel

Visualizations

Build visual

Filters

Values

Add data fields here

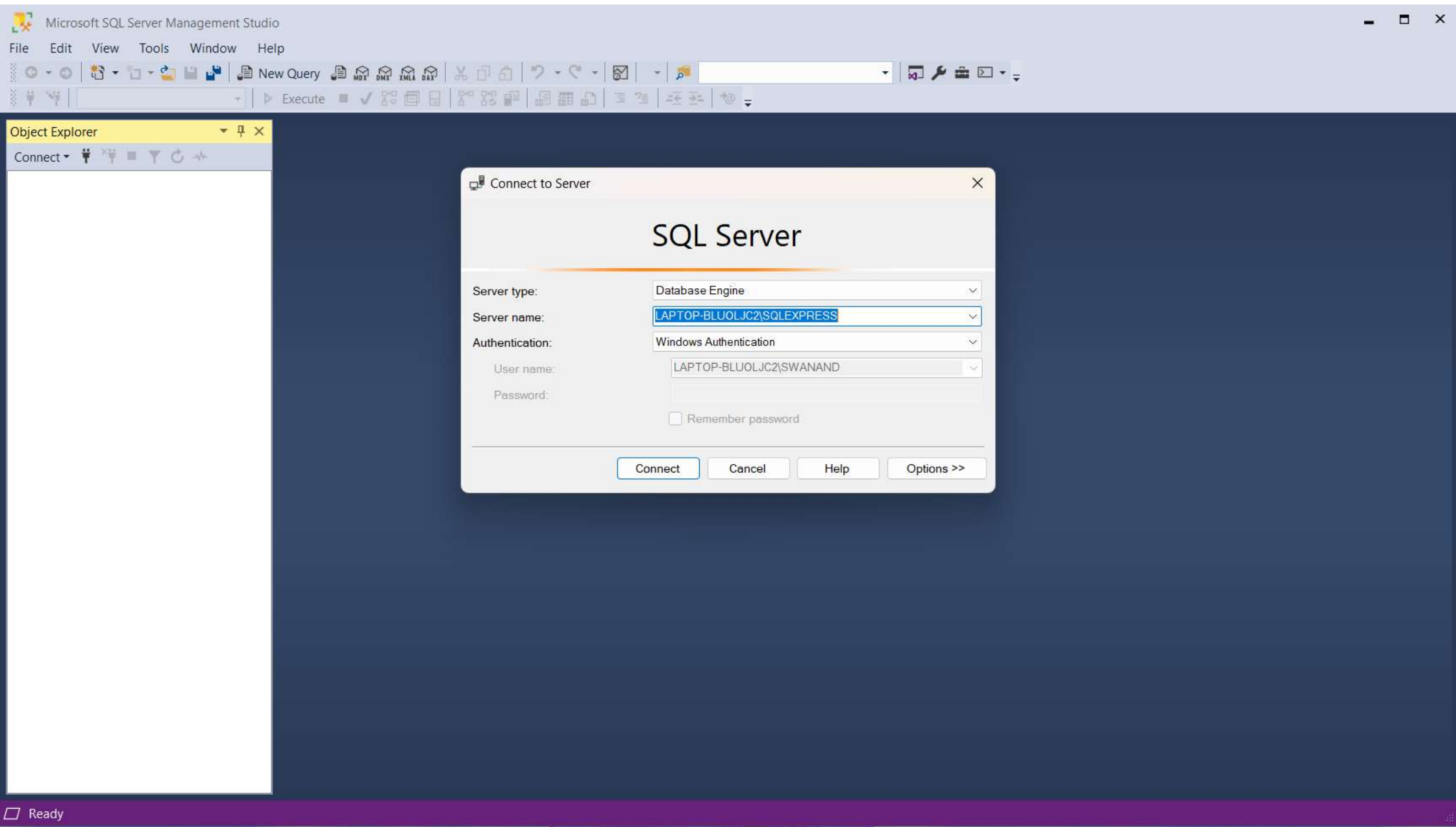
Drill through

Cross-report

Keep all filters

Add drill-through fields here

Data



Connect      

Databases

Database Snapshots

Database Diagrams

System Tables

 External Tables

dbo.demoTB

- Columns
 - Name (varchar(50), null)
 - Age (varchar(50), null)
 - Dept (varchar(50), null)

Constraints

⊕ Indexes

Views

External Resource

Programme

- Quality store
- Service Broker

- Storage
- Security

Server Objects

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| | Name | Age | Dept |
|---|-------|------|-----------|
| ▶ | Ram | 25 | Sales |
| | Rohan | 22 | Marketing |
| * | NULL | NULL | NULL |

Paste

Cut

Copy

Format painter

Clipboard

Get data

Excel workbook

Data hub

SQL Server

Enter data

Dataverse

Recent sources

Data

Transform data

Refresh data

Queries

New visual

Text box

More visuals

Insert

New measure

Quick measure

Calculations

Sensitivity

Sensitivity

Publish

Share

SQL Server database

Server ^①

LAPTOP-BLUOLJC2\SQLEXPRESS

Database (optional)

DemoDB

Data Connectivity mode ^①

☒ Import

☐ DirectQuery

▶ Advanced options

OK

Cancel

Visualizations

Build visual

Filters

Visuals

Values

Add data fields here

Drill through

Cross-report

Keep all filters

Add drill-through fields here

Data

FileHomeHelpTable tools

Name demoTB

Structure

Mark as date table
Calendars

Manage relationships
Relationships




New measure

Quick measure

New column

New table

Calculations

| Name | Age | Dept |
|-------|-----|-----------|
| Ram | 25 | Sales |
| Rohan | 22 | Marketing |

Data

Search

> demoTB