

SkillUp Online in collaboration with IBM SkillsBuild Presents

Data Fundamentals Guided Learning with Capstone – Third Technical Session



What is Tableau?

Agenda

- What is Tableau?
- Features of Tableau
- Tableau Products
- Tableau file types
- Tableau data connections
- Data Analytics in Tableau
- Activity: Hands-On Data Analytics Tableau LAB
- Quiz



What is Tableau?

- Tableau is a business intelligence tool with interactive data visualization features
- Gartner places Tableau in the Leaders Quadrant in the Business Intelligence Tools
- User friendly and easy to learn

What is Tableau?

- Tableau Desktop version can be downloaded freely from the Tableau website
- The downloaded version after installation will work free of cost with full capabilities for 14 days
- Use of the software after 14 days is possible only after buying the license from the company

Features of Tableau

- **Queries** relational databases, online analytical processing cubes, cloud databases, and spreadsheets
- **Generates** graph-type data visualizations.
- **Extract, store, and retrieve** data to and from an in-memory data engine. A subset of data can be extracted to improve performance
- **Plots latitude and longitude** coordinates and connect to spatial files to build custom mapping

Tableau Products

Tableau Desktop: Professional and personal editions

Tableau Server: Online hosting platform for tableau workbook, data sources, etc.

Tableau Online: for sharing analytics online

Tableau Prep: Data preparation tool

Tableau Public: free to use, with limited functionalities

Tableau Reader: free to use, only for viewing tableau output

Tableau Mobile: for use on mobile platform

Tableau Reports

Tableau provides three formats for its output

- **Views:** Individual chart objects
- **Dashboards:** Different views that share a common theme brought together in a single screen. Dashboards are dynamic and the different views in the same dashboard are synchronized in such a way that a filter or parameter applies to all the views simultaneously
- **Stories:** Different views or dashboards strung together in a sequence with appropriate captions to run like a presentation

Tableau file types

Tableau workbook (.twb):

Contains data of all workbook elements but does not carry source data

Tableau packaged workbook (.twbx):

Contains data of workbook elements and source data

Tableau data source (.tds):

Contain all the necessary information regarding a data connection made in Tableau. Does not save the actual data

Tableau packaged datasource (.tdsx):

Contains data of all workbook elements but does not carry source

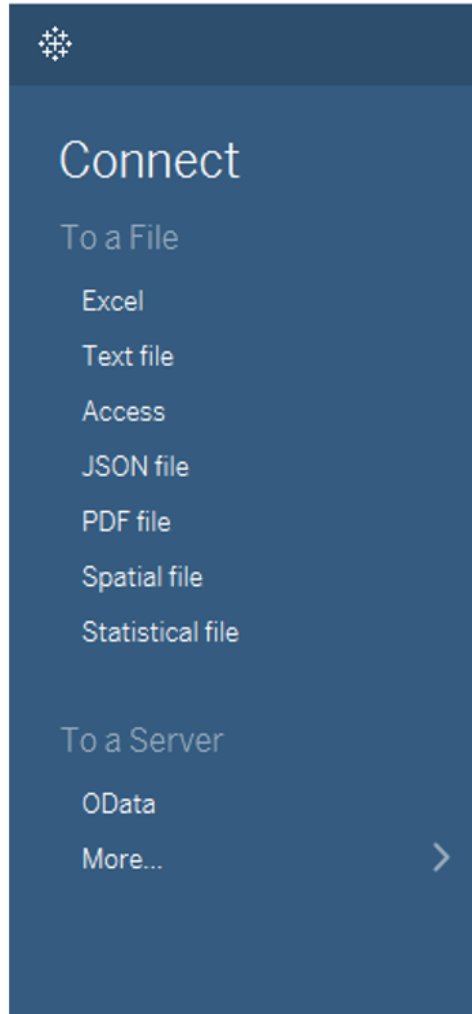
Tableau data extract (.tde):

Stores a local copy of the data extracted from its source

Tableau book mark (.tbm):

Used to save and share worksheets

Tableau data connections



Traditional file formats: Excel, text, Access, PDF etc.

Java Script Object Notation (JSON) files

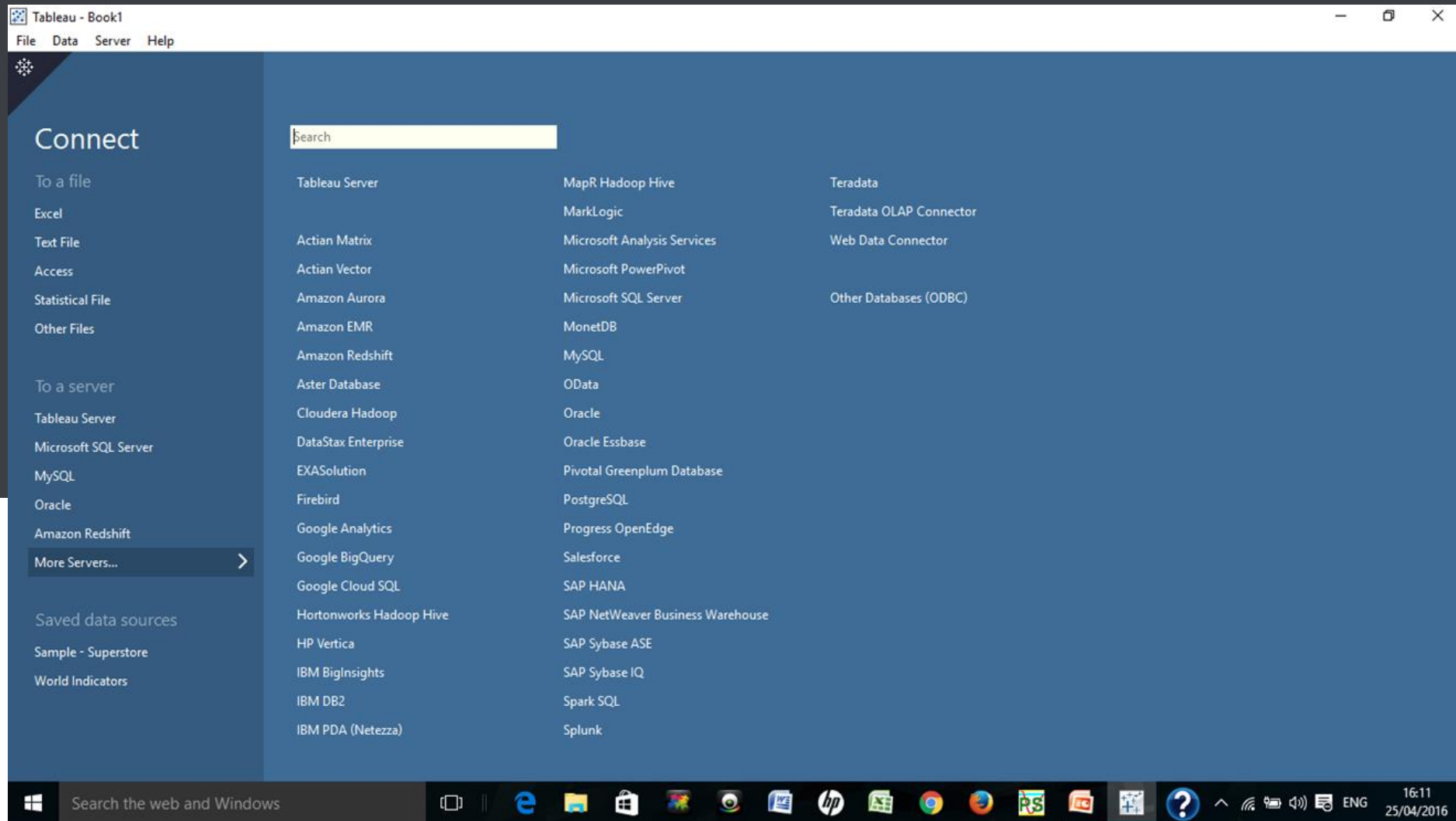
Spatial file types like Shapefiles, MapInfo tables, KML, GeoJSON, TopoJSON, Esri etc.

Statistical files from statistical software platforms like SPSS, R etc.

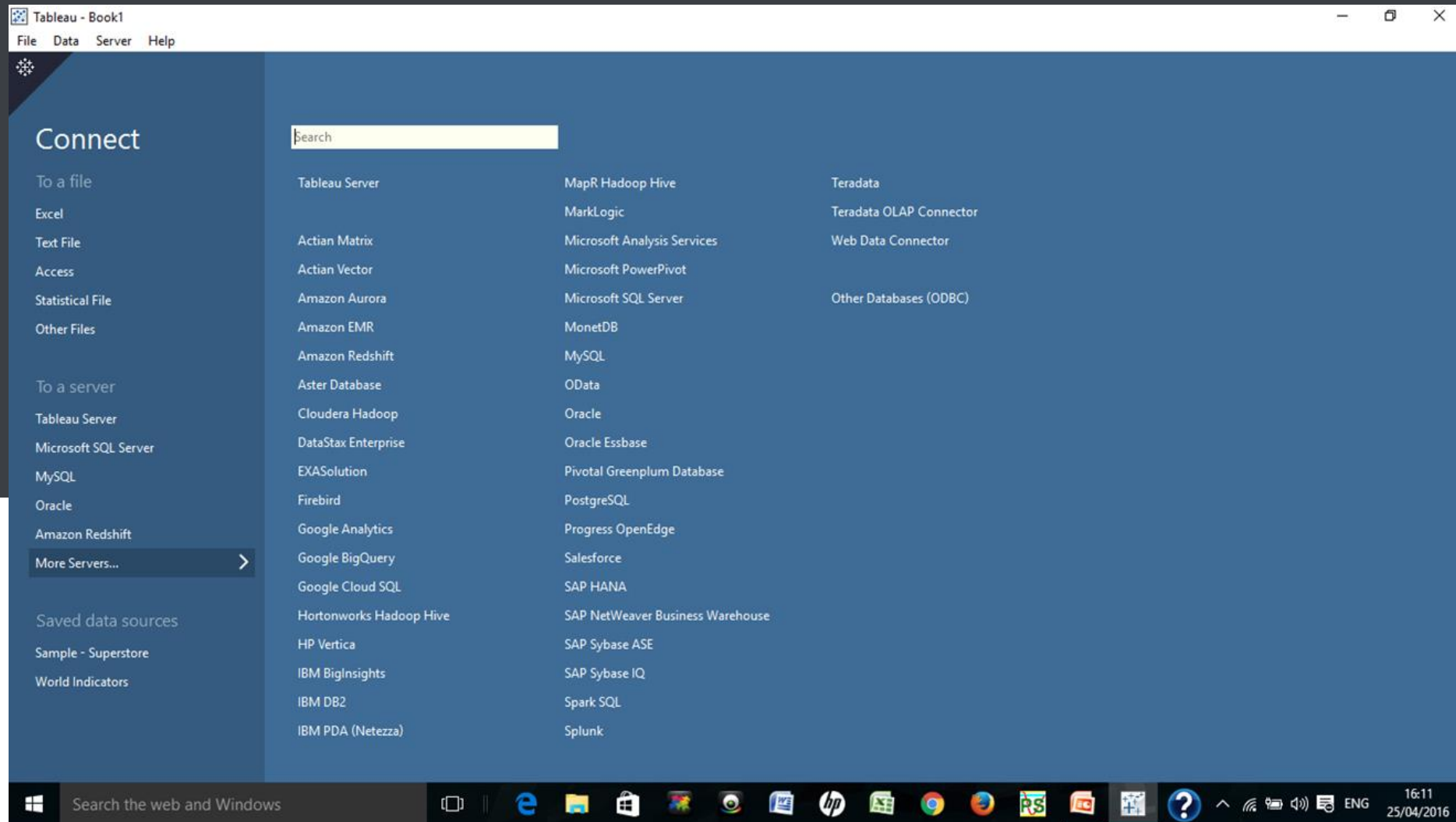
Open Data Protocol (Odata) – data in storage

Other formats like Oracle, Google sheets etc.

Connecting to Data



Connecting to Data



Data Analytics in Tableau

TABLEAU BUSINESS APPLICATIONS ↘



Data exploration
and analysis



Data visualization
and reporting



Data integration
and blending



Business performance
monitoring



Collaboration
and sharing



Predictive analytics

+235

pixelplex

Activity: Hands-On Data Analytics Tableau LAB

- Sign up for tableau Cloud: <https://www.tableau.com/trial/tableau-software?openExternal=true>
- Users will get 14 days free trial.
- After that Login to the Tableau Cloud - <https://sso.online.tableau.com/>

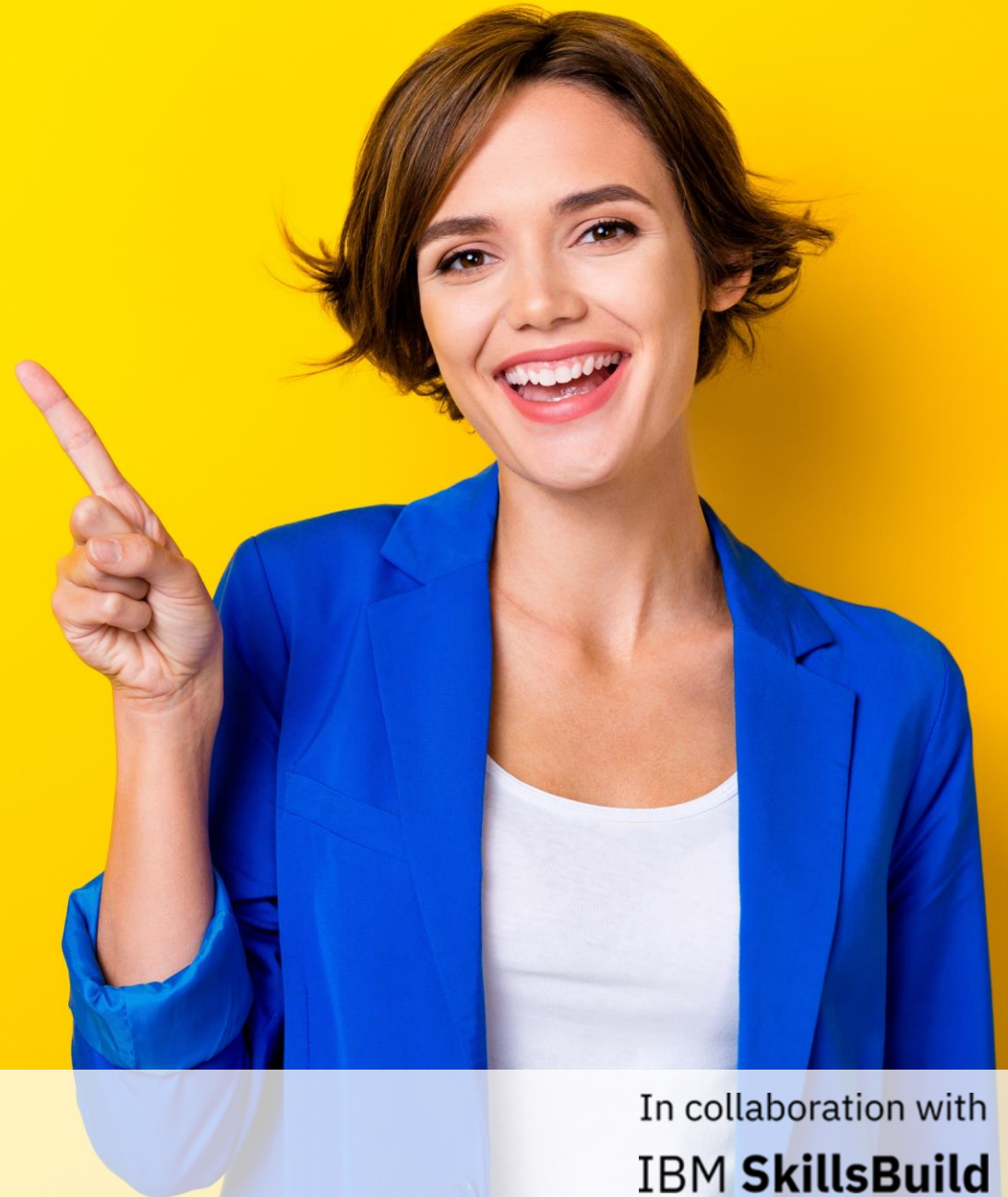




Feedback Link and QR

Feedback Link:

<https://survey.zohopublic.in/zs/k0WU7Y>





Thank You

For further queries, email:
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