CREATE A DATAFLOW

BY NITIN

OBJECTIVES

- I learned how to replace an existing table with a new table sourced from a dataflow.

- I learned how to develop a dataflow to support Power BI model development.

- I understood the difference between desktop Power BI and Power BI service.

labs.xtremelabs.io/LabViewerConnection/ShowLab?labInstanceGuid=52f9e5ae-0935-41ba-9940-c86a0f97831a&fullScreen=False&currentTrack=DP-500T00-A-CEP

Instance ID:6783387 [DP-500T00-A-CEP-MOD-05] Create a dataflow

Select Language: English

27% Completed   Lab Time Left: 01:28:29

Lab Actions

icon, and then select **Start trial**.

4. When prompted, select **Start trial**,
If prompted **Your Power BI trial has started** click **Got it**.

5. Do any remaining tasks to complete the trial setup.
*Tip: The Power BI web browser experience is known as the **Power BI service**.*

6. Select Workspaces and select **+ New workspace** to **Create a Workspace**.

7. Create a workspace named DP500 labs and select **Apply**.
Note: The workspace name must be unique within the tenant. If you're getting an error, change the workspace name.

Once created, the workspace is opened. In a later exercise, you will create a dataflow

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azure portal - Search | Home - Microsoft Azure | Microsoft Fabric free - Sign up | Power BI

...ups/4463a00a-33ec-44c7-886c-b99f9229b143/list?redirectedFromSignup=1&Sc...

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bing.com

Create app   Manage access   Workspace settings

Upload

Filter by keyword   Filter

Choose from predesigned task flows or add a task to build one (preview)

Home

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OneLake

Workspaces

DP50011

Power BI

ENG
US

ENG
IN

1:14 PM
12/10/2024

34% Completed   Lab Time Left: 01:26:51

Lab Actions ∨

7. Module: Prepare data for tabular models in Power BI

Start the SQL pool:

☑ In this task, you will start the SQL pool.

☑ 1. In a web browser, go to (https://portal.azure.com/).

☑ 2. Use the lab credentials to complete the sign in process.

☑ 3. Use the search bar to locate Azure Synapse Analytics.

☑ 4. Select the Azure Synapse Analytics instance.

☑ 5. Locate and select the dedicated SQL pool.

☐ 6. Resume the dedicated SQL pool. *Important: The SQL pool is a costly resource. Please limit the use of this*

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https://portal.azure.com/#@xtremelabs.onmicrosoft.com/resource/subscriptions/910fcc57-f84a-4069-8...

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LAB DIRECTORY (XTREMELABS.O...

Home > Azure Synapse Analytics > synapsewss93rmuo >

sqldw (synapsewss93rmuo/sqldw)
Dedicated SQL pool

▷ Resume   Scale   ↺ Restore   + New restore point   🗑 Delete   Open in Synapse Studio

••• Resuming dedicated SQL pool
Resuming dedicated SQL pool 'sqldw' in workspace 'synapsewss93rmuo'.

🔍 Search

- Overview
- Activity log
- Access control (IAM)
- Tags
- Settings
- Security
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- Monitoring
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ⓘ This dedicated SQL pool is currently paused. You may experience limited to no connectivity.

∧ Essentials   JSON View

Resource group (move)   Workspace name
dp500-s93rmuo   synapsewss93rmuo

Status   Performance level
Paused   DW100c

Location   Connection strings
West US   Show database connection strings

Subscription (move)   Maintenance schedule
XLabs-189   Sat 00:00 UTC (8h) / Wed 00:00 UTC (8h)

Subscription ID
910fcc57-f84a-4069-885c-412b63221b3c

Tags (edit)

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ENG US   1:15 PM 12/10/2024

Final Presentation: Manage the ✕ | XtremeLabs - [DP-500T00-A-CE ✕ | DP-500-Azure-Data-Analyst ✕ | +

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Select Language: English

67% Completed   **Lab Time Left: 00:44:07**

Lab Actions ⌄

○ FiscalYear

- [✓] 29. Select **OK**.

- [✓] 30. At the bottom-right, select **Save & close**.

- [✓] 31. In the **Save your dataflow** window, in the **Name** box, enter **Corporate Date**.

- [✓] 32. In the **Description** box, enter: **Consistent date definition for use in all Adventure Works datasets**

- [ ] 33. Tip: The description is available to copy and paste from the **D:\DP500\Allfiles\05\Assets\Snippets.txt**.

- [ ] 34. Select **Save**.

- [ ] 35. In the Power BI service, in the **Navigation** pane, select your workspace name. *This action opens the landing page for the workspace.*

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https://app.powerbi.com/groups/4463a00a-33ec-44c7-886c-b99f9229b143/dataflows/7cbce9d5-fda2-4...

Corporate Date ⌄

Search

Trial: 59 days left

Home | Create | Browse | OneLake | Apps | Workspaces | DPS0011 | Corporate Date | Power BI

Edit tables   Add tables | ✕ Clo

Tables

TABLE NAME	TABLE TYPE	ACTIONS
◢ ⊞ Date	Custom	

COLUMN NAME	DATA TYPE
DateKey	Int64
Date	Date
Year	String
Quarter	String
Month	String
Month Offset	Int64
Month Offset Filter	String

ENG US

Search

ENG IN

1:58 PM 12/10/2024

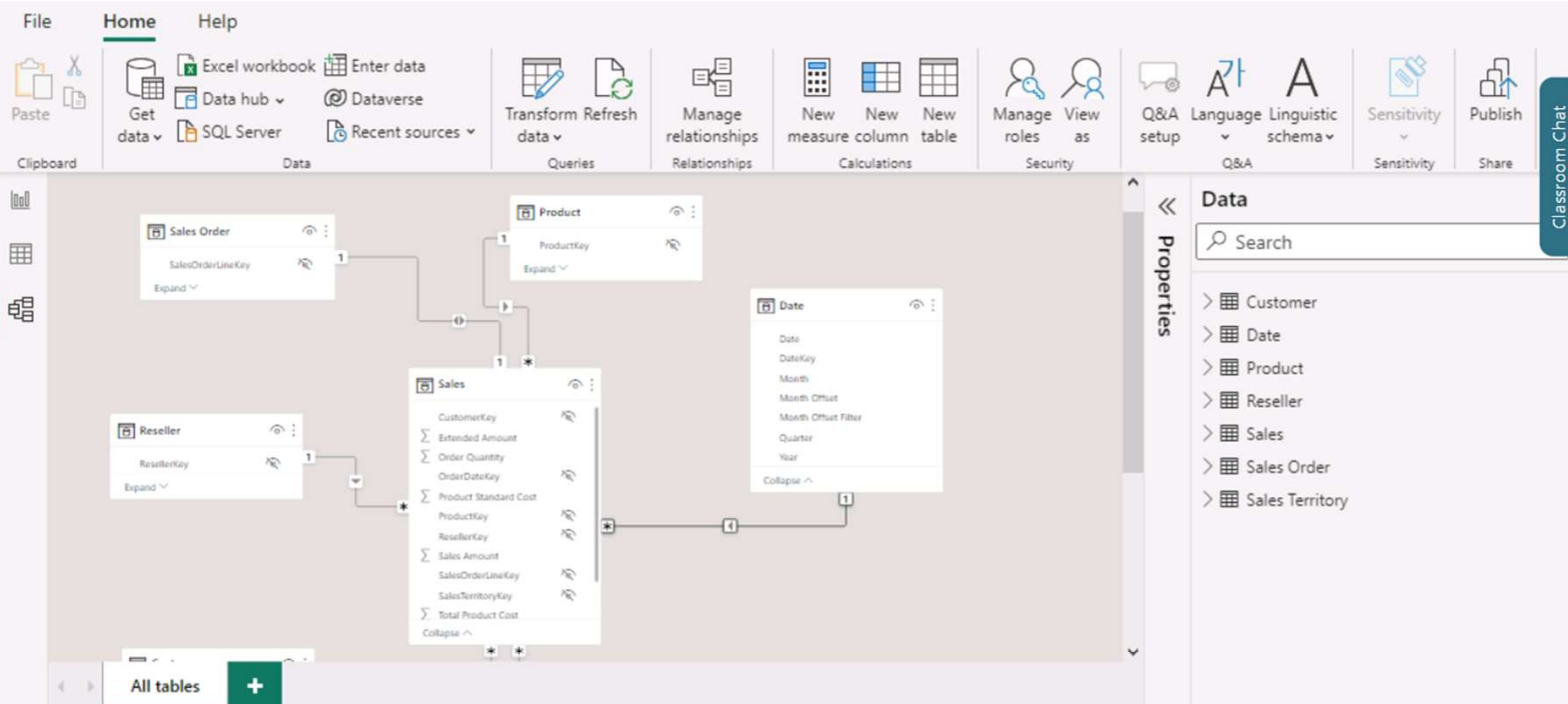86% Completed   Lab Time Left: 00:34:49   ⬀

Lab Actions ⌄

7. In the **Navigator** window, in the left pane, expand your workspace folder, and then expand the **Corporate Date** dataflow folder.

8. Check the **Date** table.

9. Select **Load**.
   It is possible to transform the data using the Power Query Editor.

10. When the new table is added to the model, create a relationship by dragging the **DateKey** column from the **Date** table to the **OrderDateKey** column of the **Sales** table.
    There are many other model configurations, like hiding columns or creating a hierarchy, that can be done.

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Sales Analysis - Create a dataflow - Power BI Desktop   🔍 Search   XLab-yUq-189@xtremelabs.us

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Clipboard | Data | Queries | Relationships | Calculations | Security | Q&A | Sensitivity | Share

Data

🔍 Search

> ▦ Customer
> ▦ Date
> ▦ Product
> ▦ Reseller
> ▦ Sales
> ▦ Sales Order
> ▦ Sales Territory

Sales Order
SalesOrderLineKey
Expand ⌄

Product
ProductKey
Expand ⌄

Date
Date
DateKey
Month
Month Offset
Month Offset Filter
Quarter
Year
Collapse ⌄

Reseller
ResellerKey
Expand ⌄

Sales
CustomerKey
Σ Extended Amount
Σ Order Quantity
OrderDateKey
Σ Product Standard Cost
ProductKey
ResellerKey
Σ Sales Amount
SalesOrderLineKey
SalesTerritoryKey
Σ Total Product Cost
Collapse ⌄

All tables   +

60%   Update available (click to download)

94% Completed | Lab Time Left: 00:24:53

Lab Actions ⌄

5. In the **Data** pane, expand the **Sales** table, and then drag the **Sales Amount** field into the bar chart visual.

6. To sort the vertical axis, at the top-right of the visual, select the ellipsis, and then select **Sort axis > Month Offset Filter**.

7. To ensure the month offset filter values sort chronologically, in the **Data** pane, select the **Month Offset Filter** field.

8. On the **Column Tools** ribbon tab, from inside the **Sort** group, select **Sort**, and then select **Month Offset**.

9. Review the updated bar chart visual that now sorts chronologically. *The main benefit of using date offset columns is that reports can filter by relative dates in a customized way. (Slicers and filters*

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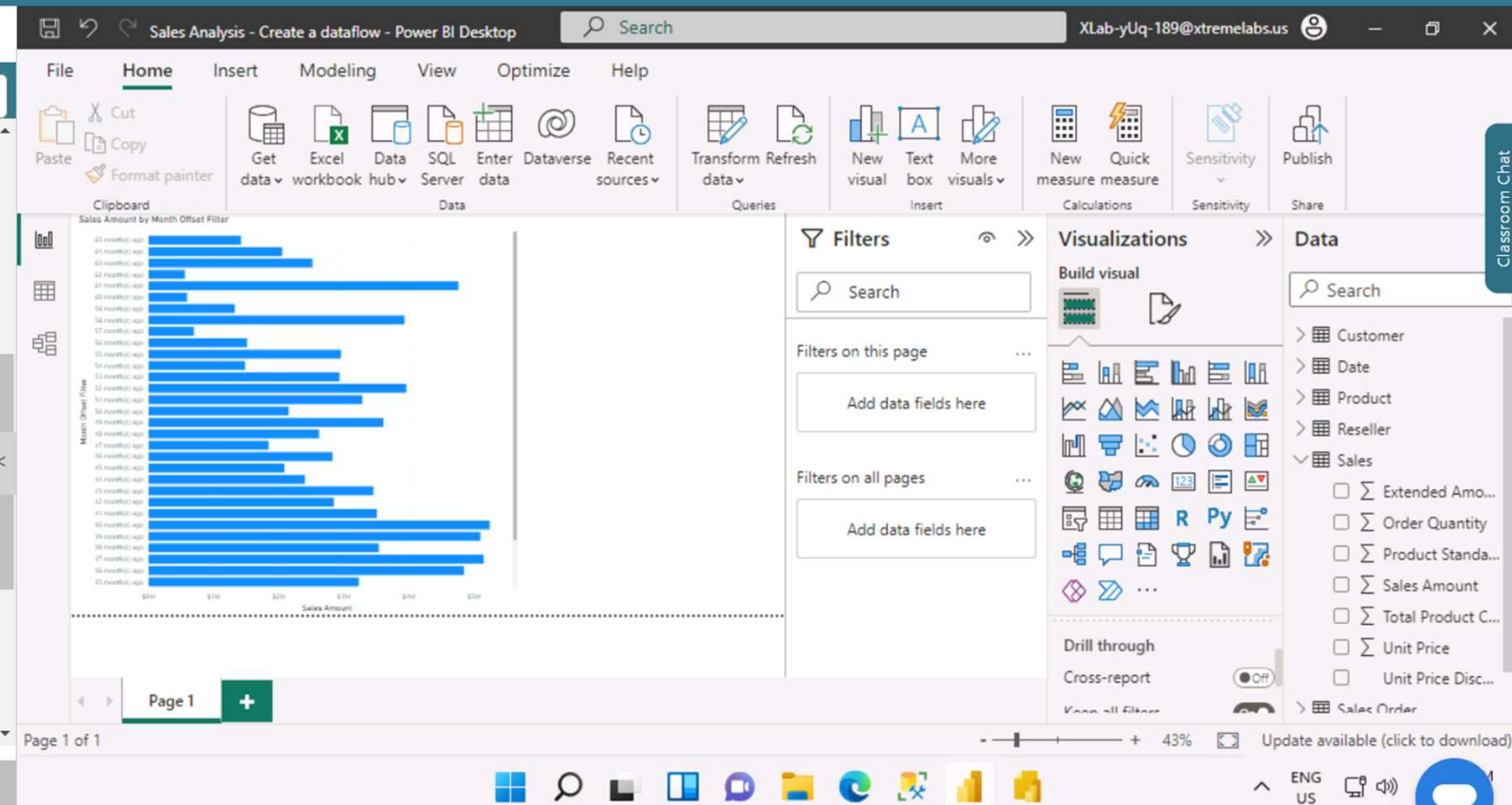This training session brought to you by Southern Alberta Institute of Technology (XTP) Powered by **XTREMELABS**

Sales Analysis - Create a dataflow - Power BI Desktop

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Calculations

Sensitivity
Sensitivity

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Filters

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Filters on this page

Add data fields here

Filters on all pages

Add data fields here

Visualizations

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> Customer
> Date
> Product
> Reseller
∨ Sales
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  ☐ ∑ Product Standa...
  ☐ ∑ Sales Amount
  ☐ ∑ Total Product C...
  ☐ ∑ Unit Price
  ☐ Unit Price Disc...
> Sales Order

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Lab Title: [DP-500T00-A-CEP-MOD-01] Query Data by using Azure Synapse Analytics

Duration: 120 minutes

Status : **Completed**

Take Lab

Lab Title: [DP-500T00-A-CEP-MOD-02] Explore data by using native visuals in Spark notebooks

Duration: 120 minutes

Status : **Completed**

Take Lab

Lab Title: [DP-500T00-A-CEP-MOD-03] Analyze data in a relational data warehouse

Duration: 120 minutes

Status : **Completed**

Take Lab

Lab Title: [DP-500T00-A-CEP-MOD-04] Create a star schema model

Duration: 120 minutes

Status : Not Initiated

Take Lab

Lab Title: [DP-500T00-A-CEP-MOD-05] Create a dataflow

Duration: 120 minutes

Status : **Completed**

Take Lab

Lab Title: [DP-500T00-A-CEP-MOD-06] Work with model relationships

Duration: 120 minutes

Status : Not Initiated

Take Lab

Lab Title: [DP-500T00-A-CEP-MOD-07] Create calculation groups

Duration: 120 minutes

Lab Title: [DP-500T00-A-CEP-MOD-08] Create a composite model

Duration: 120 minutes