Microsoft Fabric in a Day Lab Manual – Lab 1 and Lab 2

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# Lab 1: Working with Fabric Lakehouse – Creating your Lakehouse

## Introduction:

In this lab, you will create a Lakehouse in the Fabric workspace. A Lakehouse is essential because it serves as a centralized repository for all types of data, structured or unstructured. It enables efficient data management and analysis, forming the backbone of any data-driven operation. Go to home screen of your Fabric Workspace

1. **Authenticate into Fabric / Power BI:** Navigate to<app.powerbi.com> and authenticate in with the credentials provided to you as part of the FIAD program

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1. **Access the Fabric Workspace Home Screen**: This is your starting point for building the Lakehouse. The home screen is where you'll navigate through different aspects of your Fabric coursework.
2. **Selecting the Correct Workspace**: Ensure that you’re working in the correct Fabric Workspace. From the left navigate pane, click the Workspaces button and select the FIADStudent Workspace that corresponds to your student id. **Do not use the “My Workspace” environment.**

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1. **Navigate to the Data Engineering Experience**: Use the experience toggle in the bottom left corner to access the data engineering tools. This step is important because it brings you to a specialized interface within Fabric, designed for tasks related to data engineering.

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1. **Select Lakehouse:** By choosing 'Lakehouse', you initiate the process of setting up your data repository. This is an important step in establishing a central location for data storage and analysis.

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1. **Name Your Lakehouse**: Personalize your workspace by naming your Lakehouse 'Lakehouse\_{your initials}'. A clear name helps in organizing and managing your data projects, especially when working with multiple datasets or collaboratively.

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# Lab 2: Uploading a CSV File – Creating Your First Delta Table

## Introduction:

Now that our Lakehouse has been created, we will hydrate the lake with our first batch of data. To do so, we will be using Fabric’s Lakehouse ability of uploading a CSV file and converting it to a delta table in the lake.

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1. Navigate to your Lakehouse that was created in Lab 1

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1. Right click the Files section. Hover over Upload and select “Upload files”

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1. Click the folder icon in the Upload files blade that opens on the right side of the window
2. Navigate to the location of the saved “Lab 2 – PackageType.csv” file from the course material, select the file, and click Open

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1. Click Upload and wait for the file to be uploaded to the Lakehouse

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1. Close the Upload files blade
2. Select the Files root folder from the Lakehouse Explorer and observe the uploaded PackageTypes file

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1. Right-click the file, hover over “Load to Tables”, and select “New table”

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1. Change the name of the table to “packagetypes” and click Load

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1. You will notice a notification in the top right letting you know the file is being converted to a delta table. Once completed, you will get another notification letting you know it was successful.

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**Note: It may take 60-90 seconds for the table to load due to background processes. Please be patient and do not try to create the table multiple times.**

1. You will now see the “packagetypes” table under the Tables section of the Lakehouse Explorer. Click the table to preview the data.

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**Note: If at any point you see “Undefined” instead of a table name in your Lakehouse please refresh your browser. The Fabric UI has not registered the Delta table being created yet and a refresh should resolve the issue.**

1. This lab is now complete