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Configuration of the On-Premises Data Gateway, which securely connects on-premises data sources to Microsoft Fabric. The gateway enables seamless, automated data ingestion from local environments into the Fabric Lakehouse for further processing

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The configuration of a new on-premises data gateway connection named "OnPremConnection." The gateway cluster "newonprem" is selected to securely connect local folder data located at D:\NCPL\Project\Project\_4 to Microsoft Fabric, using Windows authentication for secure access.

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connection setup screen where the folder path D:\NCPL\Project\Project\_4 is linked through the previously configured on-premises gateway "newonprem." This step establishes the data source connection credentials, enabling data ingestion from the local environment into the Fabric workspace.

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Displayed here is the folder containing source files (accounts.csv, customers.csv, loans.csv, loanpayments.csv) used for ingestion. These files represent structured banking data that will be incrementally loaded into the Lakehouse environment as part of the ETL pipeline Dataflow.

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This screenshot captures the creation of a staging table in the Lakehouse using Dataflow Gen 1. The dataflow joins, deduplicates, and cleanses the ingested raw data, preparing it for downstream processing and analytics

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In this step we will assign the data types to the columns here we are assigning Whole number to transaction\_id and account\_id.

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Power Query editor with the "accounts" dataset loaded. The query includes applied transformation steps such as type conversion and text cleaning, preparing the raw data for loading. This ensures the data is structured and cleansed before being published to the Lakehouse.

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Saving the Table as Accounts\_Silver in the AI\_Bank\_Lakehouse as table.

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Here, the transformed data is loaded into a "Silver" table, representing a cleansed and structured version of the source data. This step ensures data quality and consistency before applying further business logic or analytics

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This image highlights the use of Fabric Notebooks to implement Slowly Changing Dimension (SCD) Type 1 logic. The notebook merges new and updated records, ensuring the warehouse tables always reflect the latest state of account and customer information

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A screenshot of a chat

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