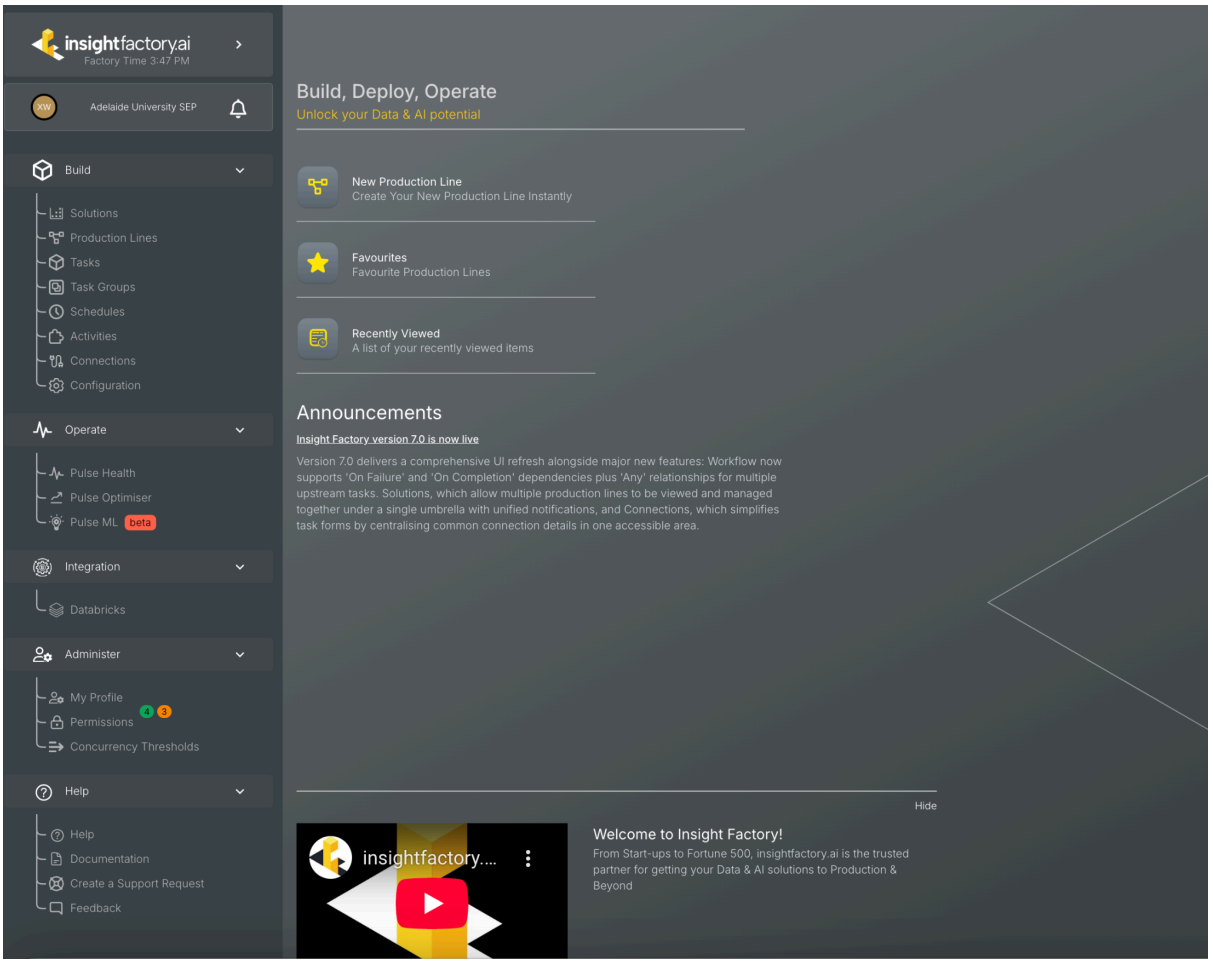
Home Page of Insight Factory.ai platform



The home page mainly consists of five modules: Build, Operate, Integration, Administer, and Help.

Build

This is the core area used to build and configure the AI production process.

- **Solutions**
  A collection of solutions that enables bundling multiple Production Lines for unified management.
- **Production Lines**
  The specific implementation of AI production lines. For example, a production line may consist of the workflow: Data Preprocessing → Feature Extraction → Model Training → Deployment.

- **Tasks**
  Individual execution steps, such as data cleaning, training tasks, and inference tasks.
- **Task Groups**
  A logical group formed by combining multiple related tasks to facilitate management.
- **Schedules**
  Scheduling tasks that set up automatic execution times.
- **Activities**
  Activity records used to view the operation status of tasks/production lines in the system (similar to execution logs).
- **Connections**
  Data connectors that centrally manage external connections such as databases, cloud storage, and third-party APIs.
- **Configuration**
  The configuration center for the platform and tasks, including settings like runtime environments and parameter templates.

Operate

Used for health monitoring and optimization of production lines after they are put into operation.

- **Pulse Health**
  Monitors the operation status and health of production lines (e.g., whether a task has failed, task duration, etc.).
- **Pulse Optimiser**
  Analyzes and optimizes task performance to help identify bottlenecks.
- **Pulse ML (beta)**
  Machine learning operation monitoring (beta version), which may include model performance tracking, data drift detection, etc.

Integration

- **Databricks**
  Integration with the external big data/analytics platform (Databricks) to facilitate the connection between data processing and AI training.

Administer

Interface Settings and permission management, etc.

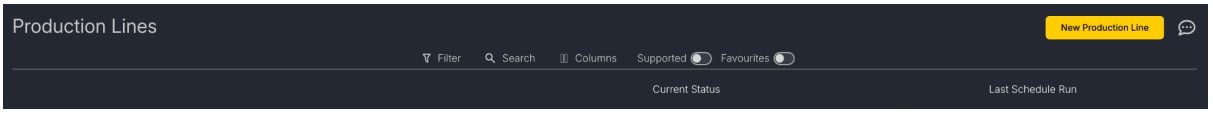
Help

Channels for problem feedback.

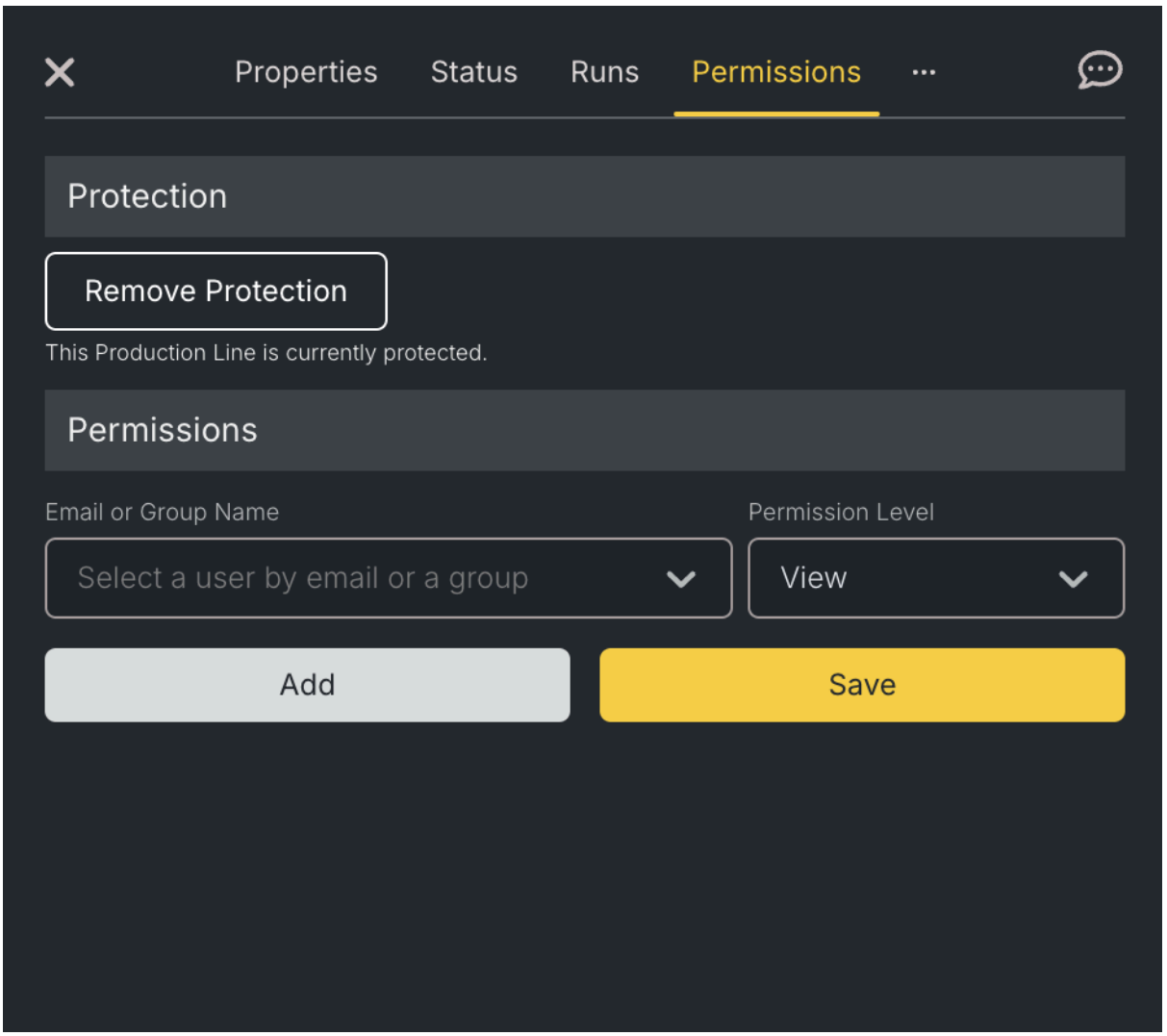
Data ingestion test

Production Lines

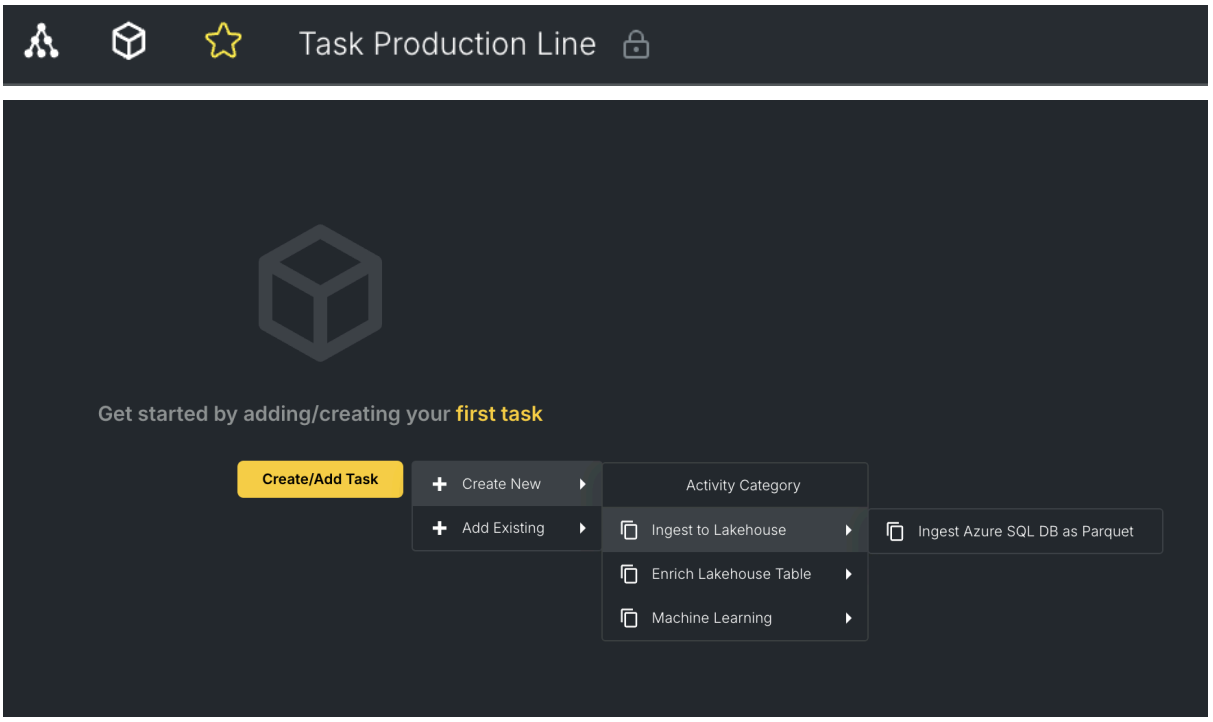
New production line



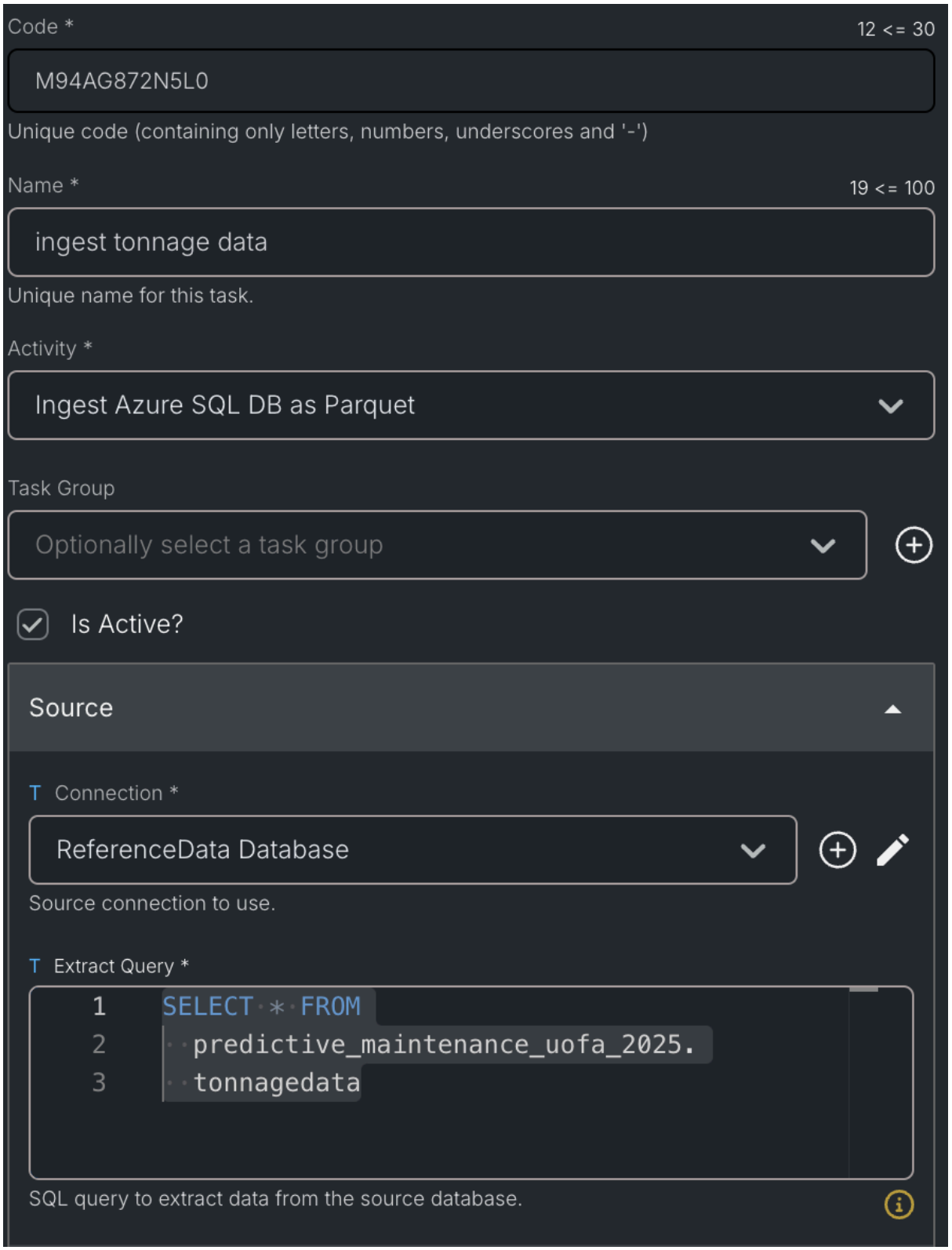
Product Line Permission Management



New Task - Data Ingestion



Task settings



Data Lake

T Data Lake System Folder *

demo_xw

Name of the folder in the Data Lake that acts as the parent folder for all datasets belonging to this System.

T Data Lake Dataset Folder *

demo_xw_datasetfolder

Name of the folder in the Data Lake that the dataset will be stored under. Used with 'Data Lake System Folder' to form the fully qualified path to the dataset within the data Container in the Data Lake.

Lakehouse Table

T Catalog Name *

09ad024f-822f-48e4-9d9e-b5e03c1839a2

The name of the Catalog this transformation lives in. Required if Copy to Lakehouse Table is enabled.

A Copy to Lakehouse Table

☑ Ingest directly to Lakehouse Table

T Schema Name

predictive_maintenance_uofa_2025

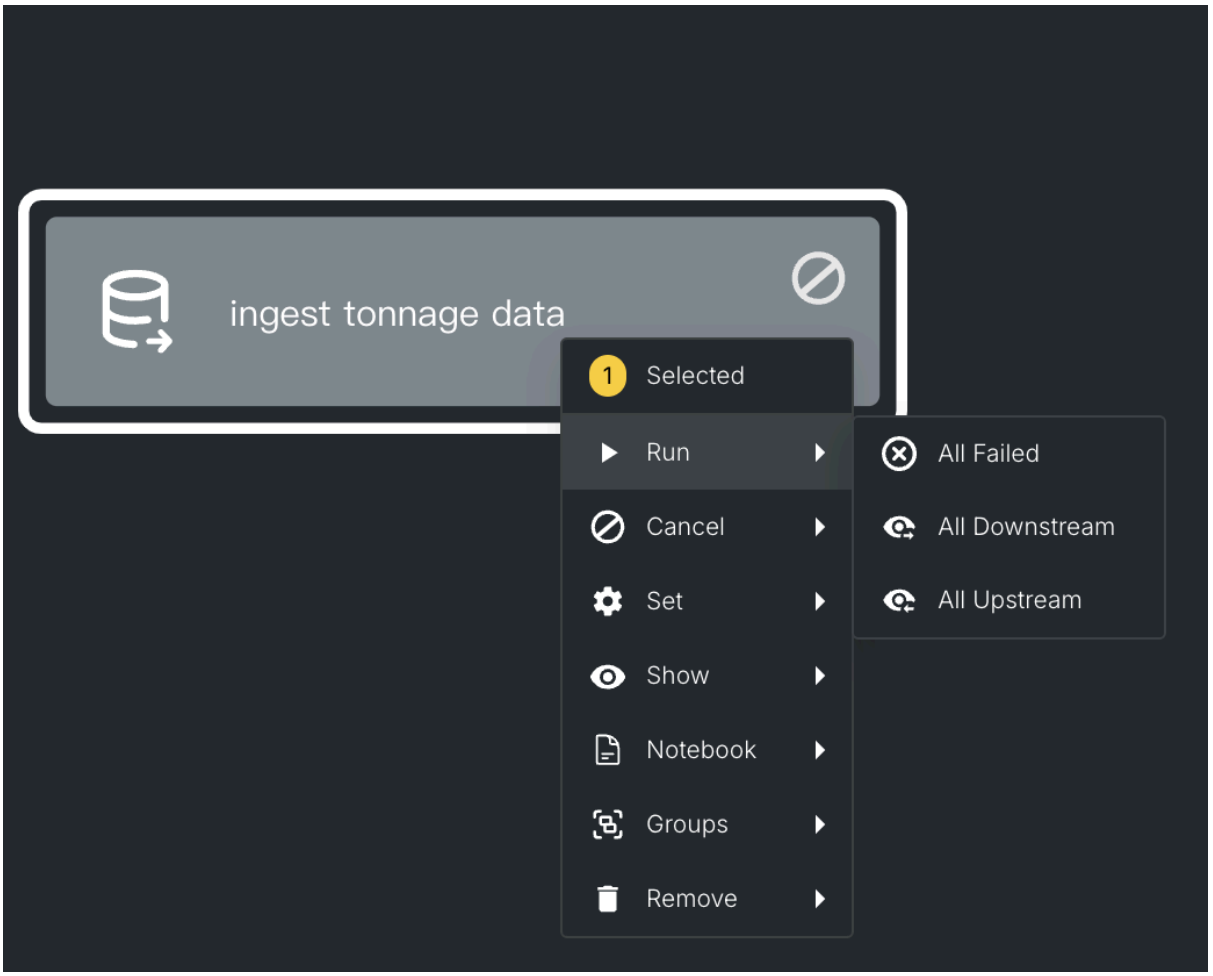
The name of the Schema this transformation lives in.

T Table Name

tonnagedata

The name of the Table representing this transformation.

Run


ingest tonnage data
1 Selected
Run
Cancel
Set
Show
Notebook
Groups
Remove
All Failed
All Downstream
All Upstream

Result in Databricks