LSEG | Data as a Service (DaaS)

Database Technical Overview

LSEG DATA & ANALYTICS

Contents

Introduction

This document provides details about the capabilities of Database, offered as part of the LSEG Data as a Service (DaaS) platform. It gives an overview of these capabilities, as well as accessibility and usability information.

Getting started with DaaS

Database is a component of the DaaS platform.

LSEG aims to provide customers with a consistent and modern data experience across content sets. This includes publishing standardised and consistent data models across distribution channels like Database and Database Replication Files.

LSEG DaaS provides an enhanced customer experience, along with the following advantages:

- **Cohesive and interoperable data model:** Providing a consistent, interoperable data model, allowing customers to spend more time analysing data and less time on preparing data. Customers will also spend less time and energy combining different datasets from LSEG.
- **Frictionless discovery:** Helping customers understand where to find LSEG data that they do not have today, and how to better utilise the data to which they currently have access. Data as a Service offers ease of data discovery and the ability to try data before buying. Customers are afforded greater choice, as well as the ability to mix and match.
- **Lineage and traceability:** Supporting compliance and regulatory obligations.
- **Reduce total cost of ownership (TCO):** Reducing the cost and time of integration, allowing more time to create insights from the data. Migrating to API and Cloud based products will provide further efficiencies and cost reductions.

For more information, see the LSEG DaaS Service Description.

About Database

Database provides customers with a low maintenance option for accessing LSEG content sets with a consistent data model.

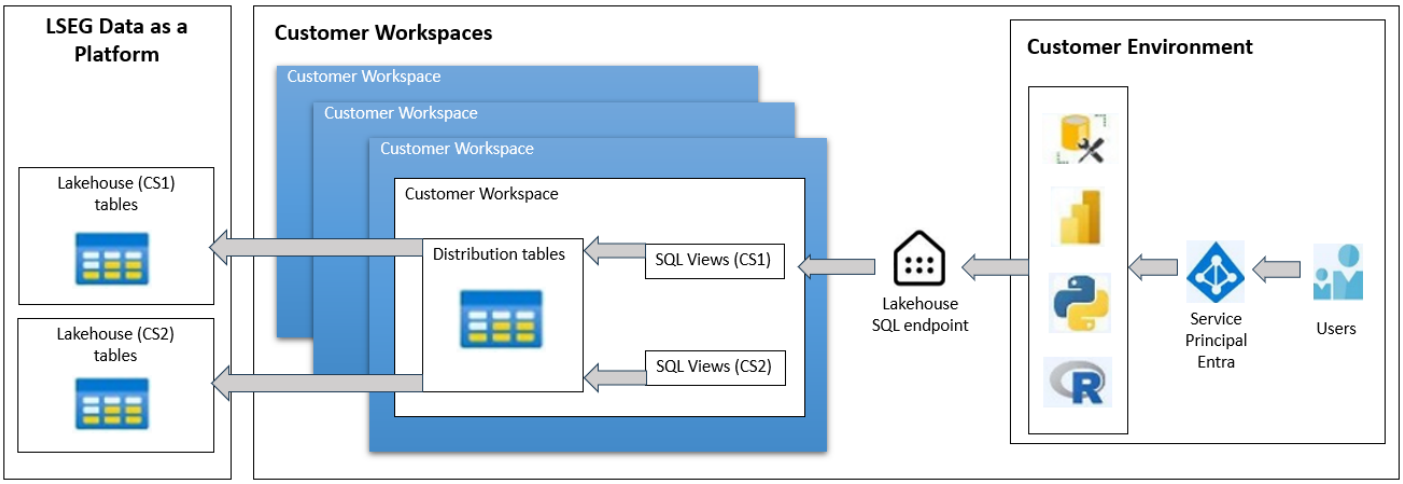
Simplified navigation allows customers to easily query across multiple content sets using common identifiers. Customers can pull relevant data into a separate database for further analysis and manipulation.

Workflow

The SQL endpoint connects to a customer-specific workspace, providing a safe and secure environment to build queries.

A customer's SQL Views point to LSEG Data as a Platform tables, allowing for seamless updates with low latency in data transmission.

SQL Views are run on the fly, so they are available as soon as the platform tables are updated.



Key features

SQL Views are:

- Provided to customers with read-only access. Product entitlements are enforced via SQL View creation, so customers are guaranteed to see rows and columns according to their entitlements.
- Automatically upgraded to the most recent version for non-breaking changes. This removes the burden of version upgrades from customers, while also guaranteeing the latest data.
- Logically organised into databases by content groupings, such as Company Data and Classifications. Each table contains a schema name which further identifies the content type, like ValueDomains or EnvironmentalSocialAndGovernance. This allows easier navigation via the ObjectExplorer.

When writing queries, it is recommended to use a three-part name: [database].[schema].[tablename].
Note that SQL Views and fields are case sensitive.

Table and column definitions are available via Data Discovery.

Accessibility

Database via SQL Endpoint provides access to the DaaS database with the flexibility to use a variety of applications. This allows clients to connect using whichever programming application they currently use.The database is accessible through a variety of applications.

- Microsoft SQL Server Management Studio (SSMS) – version 19.0 or higher required
- ODBC/JDBC Connection – applications must support Microsoft Entra Authentication
- Connection to PowerBI:
    - Direct import is not currently supported
    - Data can be loaded into another database to connect PBI Desktop
- SQL Endpoint:
    - Port: 1433 (SQL Server Connection)
    - Firewall exception: *.datawarehouse.fabric.microsoft.com
- To connect via DBeaver – alternative to Azure Data Studio for Mac users:
    - Choose “Azure SQL Server” as source
    - Input the following connection string in the following format:

```
jdbc:sqlserver://<SQLEndpointURL>:1433;authentication=ActiveDirectoryServicePrincipal;DatabaseName=CompanyData
```

    - Provide the customer with a username and password.

Connectivity

Customers can start writing queries by logging into the SQL endpoint using the Microsoft Entra Service Principal credentials created during the onboarding process.

Customers will receive an encrypted Welcome Email with the appropriate details for their workspace, including the SQL Endpoint URL and Service Principal Username. Attached to this email will be a password protected file containing the Service Principal (SPN) password.

An LSEG representative will contact the customer to provide the password using their preferred method:

- **Phone call:** Calling the customer to verbally share the password
- **Text message:** Sending the password in a text message, separate from the email
- **Separate encrypted email:** Sending another encrypted email with just the password
- **Microsoft Teams:** Sending a direct message in Teams

The image below displays an example of the login screen in SQL Server Management Studio: