Oracle® Al Database Al Enablement Guide





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Preface

This guide describes how to optimize schema metadata in Oracle AI Database for more precise natural language interactions with large language models (LLMs) and for other AI functionalities.

Audience

This guide is designed for database developers and administrators aiming to optimize their databases for integration with large language models (LLMs) and AI applications.

Conventions

The following text conventions are used in this document:

Convention	Meaning			
boldface	Boldface type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary.			
italic	Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.			
monospace	Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter.			

Overview of AI Enrichment

The AI enrichment feature in Oracle SQL Developer for VS Code enables you to add business context to your database schema.

With this feature, you can eliminate ambiguity and guide large language models (LLMs) to generate more accurate and efficient SQL queries. Learn about AI enrichment, how it improves LLM-generated SQL queries, and the best practices for enriching your database schema.

Topics:

- What is AI Enrichment
- Why AI Enrichment is Essential
- Best Practices for Enriching Your Database Schema
- How LLMs Consume Annotations
- The Impact of AI Enrichment: Practical Examples

1.1 What is AI Enrichment

All enrichment is the process of adding a layer of descriptive, business-centric metadata to your database schema without altering the underlying data or structure.

You can enable this capability in Oracle SQL Developer for VS Code, where you can annotate your database objects (schemas, tables, and columns) with crucial context, synonyms, and natural language descriptions.

By using annotations to declare the intent of your data, you can make your database more understandable and *Al-ready* for LLMs and natural language querying. This enrichment enables LLMs to generate more accurate, context-aware SQL queries.

The AI enrichment feature in Oracle SQL Developer for VS Code offers several key capabilities to streamline this process:

- It allows you to capture descriptions and annotations for schemas, tables, and columns.
- It allows you to organize tables into groups that align with your application domains.
- It surfaces intelligent opportunities to add enrichment where it's required most.

1.2 Why AI Enrichment is Essential

To generate accurate SQL queries, LLMs require more than just raw table and column names; they need clear and concise schema context.

However, database schemas are often opaque and lack thorough documentation, forcing the model to infer the data's meaning and intent. For example, when an LLM encounters ambiguous identifiers, such as T1, C123, or emp_id, it must guess what each object means, how objects relate to each other, and what data values are valid.

All enrichment eliminates this guesswork by allowing you to add context to your schema through human-written annotations. By providing simple, domain-specific annotations, you give



the LLM the precise cues it needs to write accurate and efficient SQL queries. These annotations clarify the intent of your data, making your database schema more transparent. Thus, AI enrichment closes the gap between your schema and the context that the LLMs and AI-driven applications need.

1.3 Best Practices for Enriching Your Database Schema

For optimal AI enrichment of your database schema, adhere to the following best practices. These recommendations improve an LLM's contextual understanding, resulting in more precise and reliable SQL query generation.

Use clear language

Write all annotations in clear, domain-specific English to accurately express the business meaning of each database object.

Write effective descriptions

Create an annotation using the DESCRIPTION label to clarify the purpose of a database object, like a table or column. For example, you can annotate a table named T_{EMP} as follows to describe its role:

This table stores both active and former employees, including contractors, with one row per employee.

List aliases for database objects

Use the ALIASES label to provide common synonyms or alternative names for a database object. Because users often refer to objects using various synonyms, the ALIASES annotation helps the LLM map these variations accurately for a particular object, improving its ability to interpret user intent. For example, a column named EMP_ID may be referred to as *employee number*, *person number*, or *worker id*. You can list these alternatives in an annotation as follows:

Common aliases for this column include employee number, worker id, and person number.

Specify measurement units for numeric data

For columns containing numeric data, use the UNITS annotation to specify the unit of measurement. This prevents the LLM from misinterpreting values. For example, you can annotate a salary_amount column as: Expressed in United States Dollars (USD). This ensures the model correctly identifies the currency type. Similarly, for a distance column, you can annotate Units: kilometers to ensure the model performs accurate conversions or aggregations.

Define the join logic

When joining tables, use the JOIN COLUMN label to specify preferred join partners for a column. Because automated SQL generation with LLMs often struggles with join logic, this annotation guides the model toward the correct join. For example, you can annotate a column named EMPLOYEE.DEPT_NO as follows:

This column is most commonly joined with DEPARTMENT.DEPT_NO and represents the employee's home department.

Enumerate sample values

Use the VALUES label to provide the LLM with example or distinct values for a column. This information helps the model recognize valid predicates and directly improves its filtering capabilities. For example, you can annotate a column named status_code as follows:



Typical values for status_code include A (active), I (inactive), and T (terminated).

Group related tables

Organize tables into groups that align with your application domains and annotate the groups. By grouping tables, you help the LLM understand relationships that aren't explicitly defined by foreign keys. For example, you can organize all tables related to Human Resources (HR) into a group named HR_TableGrp and annotate it as follows:

This group contains all tables related to Human Resources (HR).

Example 1-1 Annotating an HR schema

To understand how to apply annotations in practice, let's look at a simplified HR schema with two tables: EMPLOYEE and DEPARTMENT. Using the best practices, you can annotate it as follows.

This example set of annotations provides a rich, machine-readable layer of context that dramatically improves how an LLM interacts with the schema.

```
-- Annotations for the EMPLOYEE table
ALTER TABLE EMPLOYEE ANNOTATIONS (
  DESCRIPTION 'Current and former employees, including contractors',
  ALIASES 'staff, worker, personnel'
);
-- Annotations for the columns of EMPLOYEE table
ALTER TABLE EMPLOYEE MODIFY (
  emp_id ANNOTATIONS (
    DESCRIPTION 'Unique employee identifier',
    ALIASES 'employee number, person number, worker id'
  ),
  salary_usd ANNOTATIONS (
    DESCRIPTION 'Annual base salary',
    UNITS 'currency: USD',
    VALUES '35000, 100000'
  ),
  dept_no ANNOTATIONS (
    DESCRIPTION 'Department foreign key',
    JOIN_COLUMN 'DEPARTMENT.dept_no'
  )
);
-- Annotations for the DEPARTMENT table
ALTER TABLE DEPARTMENT ANNOTATIONS (
  DESCRIPTION 'Company departments'
);
-- Annotations for the columns of DEPARTMENT table
ALTER TABLE DEPARTMENT MODIFY (
  dept_no ANNOTATIONS (
    DESCRIPTION 'Department primary key',
   ALIASES 'department id'
  ),
  dept name ANNOTATIONS (
    DESCRIPTION 'Human-readable department name'
);
```



1.4 How LLMs Consume Annotations

When a user submits a prompt to an AI-powered development tool (such as Select AI or SQL Developer), it first augments the prompt with additional context.

Before forwarding the prompt to an LLM, the tool retrieves annotations for all the database objects involved in the user's request. It then programmatically injects these annotations into the *system instruction* part of the prompt for LLM's consumption.

This process enriches the prompt with detailed contextual information that guides the model's response. For example, the final instruction sent to the LLM may contain the following information:

```
"You are a SQL generator. The schema contains a table named EMPLOYEE.

DESCRIPTION: Current and former employees, including contractors. The column

EMP_ID has the following aliases: employee number, worker id, person number. The

column DEPT NO is often joined with DEPARTMENT.DEPT NO."
```

Because the prompt includes all necessary context, the model no longer needs to infer relationships based solely on object names. As a result, it can generate significantly more accurate SQL queries.

1.5 The Impact of AI Enrichment: Practical Examples

See how enriching your schema directly impacts LLM effectiveness through these real-world examples.

- Example 1: Healthcare Events-Tracking Schema
- Example 2: Human Resources Schema
- Key Takeaways

Example 1: Healthcare Events-Tracking Schema

This example uses a schema designed to track healthcare events, focusing on doctor activity and the specific procedures performed during patient events.

The schema consists of the following three tables:

- The Practitioner table: Stores information about doctors, including their name, specialization, and status.
- The Event table: Records high-level patient appointments, including when and where they occurred and the responsible doctor.
- The EventDetail table: Logs individual procedures (like surgery) performed during an event, capturing the procedure description, exact time stamp, and duration.

```
CREATE TABLE Practitioner (
   practitioner_id NUMBER PRIMARY KEY,
   nm VARCHAR2(80),
   speciality VARCHAR2(40), -- This represents 'department'
   status VARCHAR2(20) -- e.g., 'Active', 'Inactive'
);

CREATE TABLE Event (
   event_id NUMBER PRIMARY KEY,
```



Schema interpretation notes

- The term practitioner is synonymous with doctor.
- The speciality column represents the doctor's department.
- The act_desc column in the EventDetail table records the procedure performed, such as surgery.
- The act_time column in the EventDetail table provides the time stamp for time-based filtering of procedures.

Business query

Consider a hospital administrator asking the following question to an LLM:

```
"For each doctor, display their name, department, and the count of surgeries performed after 8 PM within the last six months."
```

Without AI enrichment

Without any annotations, the LLM must interpret the raw schema. This could lead to a flawed query like the one below:

```
SELECT
    PRAC.nm,
    PRAC.speciality,
    COUNT(EVT.event_id) AS surgery_count
FROM
    Practitioner PRAC

JOIN
    Event EVT
    ON PRAC.practitioner_id = EVT.practitioner_id
WHERE
    EVT.dt >= ADD_MONTHS(SYSDATE, -6)
    AND EXTRACT(HOUR FROM EVT.dt) >= 20
GROUP BY
    PRAC.nm,
    PRAC.speciality;
```

This query has several critical errors:

 It counts EVT.event_id, incorrectly tallying all appointments after 8 PM instead of only the surgeries.



- It filters on EVT.dt, which is the start time of an appointment and not of a specific procedure. A 1 PM appointment could include a 9 PM surgery, which this query would miss.
- It misses a required join with the EventDetail table.

With AI enrichment

By applying the following annotations, you can provide the LLM with the necessary semantic context.

- Set the Practitioner table alias to doctor.
- Set the Practitioner.speciality column alias to department.
- Provide a description and sample values for the EventDetail.act_desc column, clarifying
 that it contains the specific procedures performed during an event, such as surgery,
 consultation, and so on.

With this enriched context, the LLM can generate a far more accurate and reliable query:

```
SELECT
    PRAC.nm,
    PRAC.speciality,
    COUNT(*) AS surgery_count
FROM
    Practitioner PRAC
JOIN
    Event EVT
    ON PRAC.practitioner_id = EVT.practitioner_id
JOIN
    EventDetail ED
    ON EVT.event_id = ED.event_id
WHERE
    ED.act_desc = 'Surgery'
    AND ED.act_time >= ADD_MONTHS(SYSDATE, -6)
    AND EXTRACT(HOUR FROM ED.act_time) >= 20
GROUP BY
    PRAC.nm,
    PRAC.speciality;
```

Annotations markedly improve the query:

- Now, it performs the necessary join to the EventDetail table, which is essential to find specific procedures.
- It filters on ED.act_desc = 'Surgery', correctly understanding from the annotation that surgery is a type of procedure.
- It uses the correct time stamp, ED.act_time, to find surgeries that actually occurred after 8 PM.

As this example illustrates, annotations bridge the gap between business terminology and the physical schema, guiding the LLM to understand data relationships and generate correct SQL.

Example 2: Human Resources Schema

In the context of a Human Resources (HR) schema, consider a business analyst asking the following question to an LLM:



List each department and the average salary of employees hired after 2020. Order the result by average salary, highest first.

Without AI enrichment

Without any annotations, the LLM can only read the raw table and column names in the schema. It may guess at names and joins, returning a flawed query:

```
SELECT

d.department_name,

AVG(e.salary) AS avg_salary

FROM

HR_PER_ALL_ASSIGNMENTS e

JOIN

DEPT d

ON e.depart_id = d.id

WHERE

e.hire_dt > DATE '2020-01-01'

GROUP BY

d.department_name

ORDER BY

avg_salary DESC;
```

This query has several issues. The model has guessed at column names like salary and hire_dt and joined on depart_id, which may not be the correct key, creating a risk of mismatch.

With AI enrichment

After you apply the annotations, the LLM receives much richer context. The generated query is more accurate:

```
SELECT
    d.dept_name,
    ROUND(AVG(e.salary_usd), 2) AS avg_salary_usd
FROM
    EMPLOYEE e

JOIN
    DEPARTMENT d
    ON e.dept_no = d.dept_no -- guided by join column metadata
WHERE
    e.hire_date >= DATE '2020-01-01'
GROUP BY
    d.dept_name
ORDER BY
    avg_salary_usd DESC;
```

The improvements here are significant:

- The model uses the salary_usd column instead of a generic salary field, guided by the UNITS annotation, which also informs the rounding to two decimal places appropriate for currency.
- It chooses the correct join column (dept_no) as specified in the JOIN COLUMN annotation.
- It selects the correct column (hire_date) for the date predicate, avoiding outdated aliases.



Key Takeaways

As illustrated in these examples, annotations enhance query accuracy by guiding the LLM to select correct join columns, apply appropriate units, use valid predicates, decipher object names, and more.

When you apply annotations consistently, you see a faster turnaround for data questions, fewer faulty joins, and a reduction in production defects from incorrect SQL. For an LLM, each annotation reduces the search space of possible query plans, allowing it to focus on the exact pattern you intended.

For organizations with strict compliance rules, annotations also allow administrators to control the exact contextual information shared with an LLM, which helps reduce the unintentional disclosure of sensitive data that may be present in free-form column comments.

Getting Started with AI Enrichment

Learn about the necessary prerequisites to use the AI enrichment feature, the steps to enable it in Oracle SQL Developer for VS Code, and how to effectively interpret the feature's dashboard.

Topics:

- Preparing Your Environment
- Enabling AI Enrichment for a Schema
- Understanding the AI Enrichment Dashboard

2.1 Preparing Your Environment

To get started with AI enrichment, you must have the following prerequisites installed and active on your system.

- Install the following software on your system.
 - Visual Studio Code, version 1.101.0 or higher
 - Oracle SQL Developer for VS Code, version 25.3.0 or higher
- Ensure you have an active connection to your Oracle database environment.
- Ensure you have the following database privileges:
 - CREATE VIEW
 - CREATE TABLE
 - CREATE SEQUENCE
 - CREATE PROCEDURE
- Ensure you have sufficient quota in the tablespace.

2.2 Enabling AI Enrichment for a Schema

To view enrichment opportunities for your schema and take action, you must first enable the AI enrichment feature in Oracle SQL Developer for VS Code.

This is a one-time process that sets up your schema by creating the necessary objects to store the enrichment metadata.



Do not use the AI enrichment feature on SYS or SYSTEM schemas as the creation of AI enrichment objects in a SYS-level schema may fail due to potential conflicts during installation.

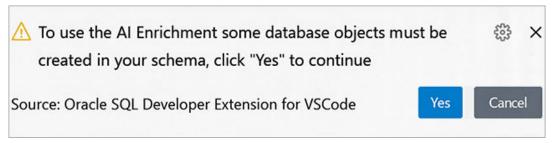
To enable the feature:



- 1. In Oracle SQL Developer for VS Code, expand the **Connections** panel.
- 2. Expand your database connection tree, and click the Al Enrichment folder.



3. In the dialog box that appears, click **Yes** to confirm the creation of AI enrichment objects.



The AI enrichment feature is now available for your schema.

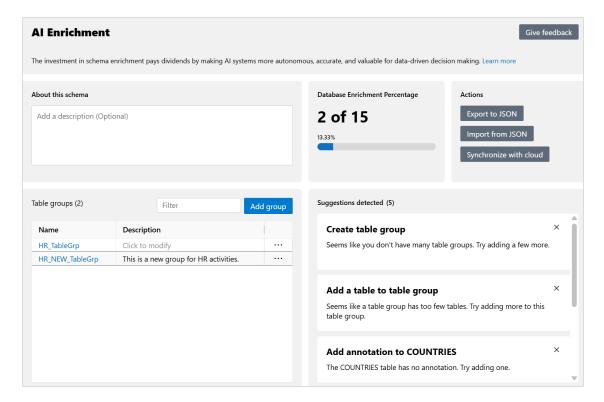
2.3 Understanding the AI Enrichment Dashboard

The AI Enrichment dashboard is your central hub for managing schema-enrichment activities.

This dashboard allows you to easily track the progress of annotations and enrichments made across tables and columns, helping you ensure completeness throughout the schema.

In Oracle SQL Developer for VS Code, the dashboard appears as soon as you enable the AI enrichment feature for your schema. Alternatively, you can open the dashboard from the **Connections** panel. Right-click the **AI Enrichment** node and select **AI Enrichment Dashboard**.





The dashboard consists of the following sections:

- About this schema: Allows you to enter a high-level description for the schema. See Defining the Schema's Business Context.
- **Table groups**: Allows you to logically group related tables and displays the existing groups in the schema. For example, you can organize all tables related to Human Resources (HR) into a group named HR_TableGrp. See Working with Table Groups.
- Database enrichment percentage: Displays the percentage of objects (such as tables and columns) that have been annotated or enriched in the schema. This data helps you track progress and measure how extensively enrichment has been applied within a given schema.
- Suggestions detected: Offers intelligent suggestions to add enrichment where it's required most.

Enriching Your Database Schema

Explore the different techniques to enrich your database schema for greater clarity, organization, and insight.

Topics:

- Defining the Schema's Business Context
- Working with Table Groups
- Enriching Tables
- Enriching Columns

3.1 Defining the Schema's Business Context

The first step in schema enrichment is to add a high-level description for your schema.

By providing a meaningful description, you help users and tools immediately understand the schema's business context, purpose, and key entities.

In the AI Enrichment dashboard, add a clear and concise description in the **About this schema** section. For example, for a Human Resources (HR) schema, you can enter a description as follows:

This schema manages core HR data, including employees, departments, and roles.

Al Enrichment

The investment in schema enrichment pays dividends by making Al systems more autonomous, accurate, and valuable for data-driven decision making

About this schema

This schema manages core HR data including employees, departments, and roles.

3.2 Working with Table Groups

Table groups are logical collections of related tables. By grouping tables, you help an LLM understand relationships that aren't explicitly defined by foreign keys, such as tables belonging to a specific business domain.

Learn how to create table groups, add annotations to them, and assign tables to those groups.



Topics:

- Creating a Table Group
- Adding a Description to a Table Group
- Adding Annotations for a Table Group
- Adding an Existing Table to a Group
- Assigning a Table to Multiple Groups

3.2.1 Creating a Table Group

Follow these steps to create a new table group.

1. In the AI Enrichment dashboard, click **Add Group** within the **Table group** section.

The Create Table Group panel opens.

Create Table Group						
Name						
Table Group ABC						
Description						
Add a description (Optional)						
Filter						
Selected	Name					
	LOCATION					
	DEPARTMENT					
	JOBS					
		Cancel	Apply			

- 2. Enter a name and description for the group.
- 3. Select the tables you want to include in this group.
- 4. Click Apply.

The new group now appears in the **Table groups** section of the dashboard.

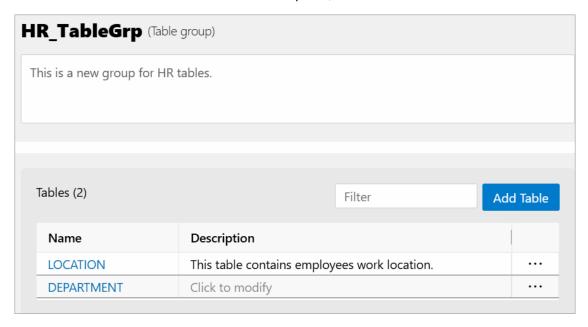
3.2.2 Adding a Description to a Table Group

Follow these steps to add a natural language description to a table group.



- In the AI Enrichment dashboard, review the Table groups section to identify any missing descriptions.
- To add a description to a group, click its Description cell.
- 3. In the **Set description** panel that appears, enter a description and click **Save**.

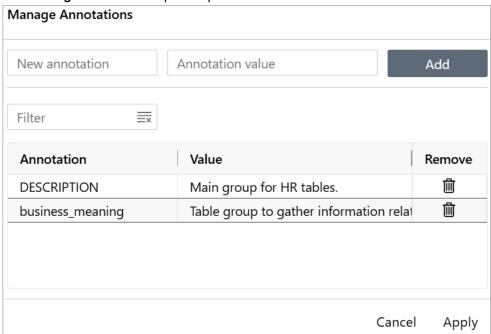
You can also add group descriptions directly in a table group's view. To open it, click a group's name on the dashboard or in the **Connections** panel, under the **Al Enrichment** node.



3.2.3 Adding Annotations for a Table Group

Follow these steps to add or edit annotations for a table group.

In the Table group section of the AI Enrichment dashboard, click ... for the target group.
 The Manage Annotations panel opens.





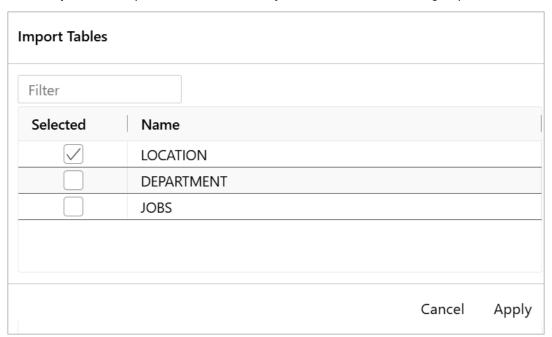
- To define an annotation, enter a key-value pair in the New annotation and Annotation value fields, respectively.
- 3. Click Add, and then click Apply.

The new annotation is added to the table group. You can also edit an existing annotation from the **Manage Annotations** panel.

3.2.4 Adding an Existing Table to a Group

Follow these steps to add an existing table to a group.

- 1. Open a table group's view.
 - Click a group's name in the **Table group** section of the AI Enrichment dashboard, or in the **Connections** panel under the **AI Enrichment** node.
- 2. Click Add Table in the group view.
- 3. In the **Import Tables** panel, select the tables you want to include in this group.



4. Click Apply.

3.2.5 Assigning a Table to Multiple Groups

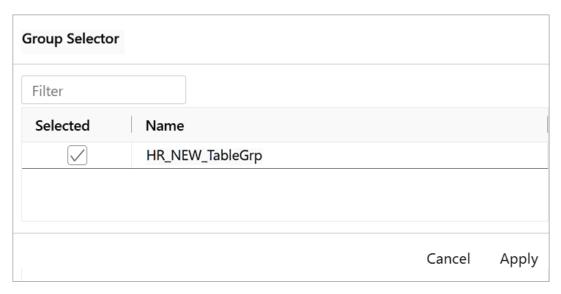
A single table can belong to multiple logical groups, reflecting its role in different business contexts.

Follow these steps to add a table to multiple groups.

- 1. Open a table's view in one of the following ways:
 - Click a table's name in the **Connections** panel, under the **Al Enrichment** node.
 - In the **Table group** section of the Al Enrichment dashboard, click a group's name. In the resulting view, click a table's name from the **Tables** section.
- 2. Click the **Table groups** tab, and then click **Add table group**.

The **Group Selector** panel opens.





3. Select the groups to which you want to add your table, and click **Apply**.

3.3 Enriching Tables

After creating groups, you can add more granular details to the individual tables within them.

Learn how to add descriptions and annotations to tables.

Topics:

- Adding a Description to a Table
- Adding Annotations for a Table

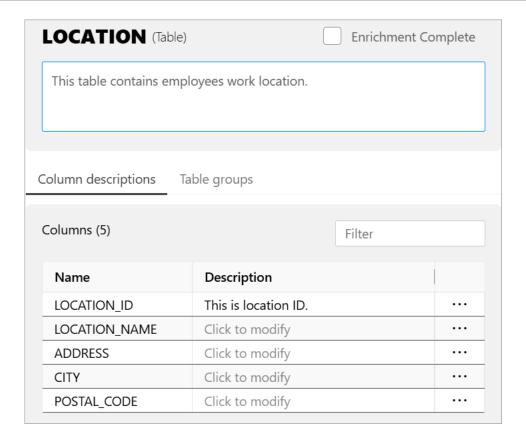
3.3.1 Adding a Description to a Table

Follow these steps to add a natural language description to a table.

- 1. Open a table group's view.
 - Click a group's name in the **Table group** section of the AI Enrichment dashboard, or in the **Connections** panel under the **AI Enrichment** node.
- Review the **Tables** section to identify any missing descriptions.
- 3. To add a description to a table, click its **Description** cell.
- 4. In the **Set description** panel that appears, enter a description and click **Save**.

You can also add table descriptions directly in a table's view. To open it, click a table's name in the table group view or in the **Connections** panel, under the **Al Enrichment** node.





(i) Note

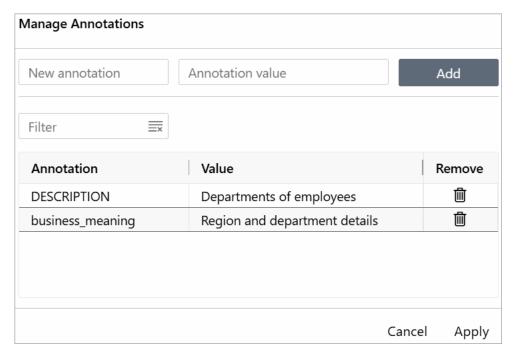
Select the **Enrichment Complete** checkbox to mark a table as fully annotated even if some columns aren't annotated. This includes the table in the overall **Database Enrichment Percentage** shown on the AI Enrichment dashboard.

3.3.2 Adding Annotations for a Table

Follow these steps to add or edit annotations for a table.

- Open a table group's view.
 - Click a group's name in the **Table group** section of the Al Enrichment dashboard, or in the **Connections** panel under the **Al Enrichment** node.
- 2. In the **Tables** section, click ... for the target table.
 - The Manage Annotations panel opens.





- 3. To define an annotation, enter a key-value pair in the **New annotation** and **Annotation value** fields, respectively.
- 4. Click Add, and then click Apply.

The new annotation is added to the table. You can also edit an existing annotation from the **Manage Annotations** panel.

3.4 Enriching Columns

For the highest level of detail, you can enrich individual columns within a table.

Learn how to add descriptions and annotations to table columns.

Topics:

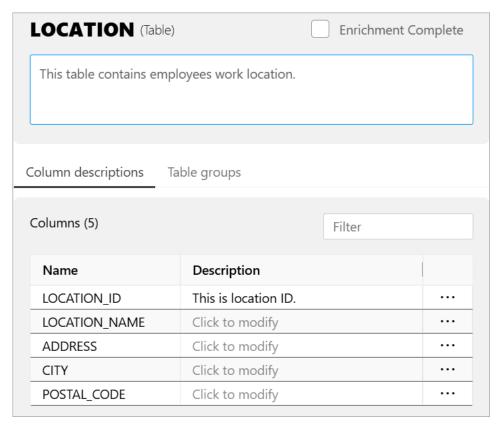
- Adding a Column Description
- Adding a Column Annotation

3.4.1 Adding a Column Description

Follow these steps to add a natural language description to a table column.

- Open a table's view in one of the following ways:
 - Click a table's name in the **Connections** panel, under the **Al Enrichment** node.
 - In the **Table group** section of the AI Enrichment dashboard, click a group's name. In the resulting view, click a table's name from the **Tables** section.
- 2. Review the **Columns** section to identify any missing descriptions.





- 3. To add a description to a column, click its **Description** cell.
- 4. In the **Set description** panel that appears, enter a description and click **Save**.

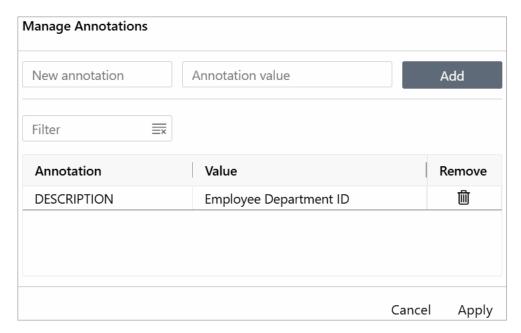
3.4.2 Adding a Column Annotation

Follow these steps to add or edit annotations to a table column.

- Open a table's view in one of the following ways:
 - Click a table's name in the **Connections** panel, under the **Al Enrichment** node.
 - In the **Table group** section of the AI Enrichment dashboard, click a group's name. In the resulting view, click a table's name from the **Tables** section.
- 2. In the **Columns** section, click ... for the target column.

The Manage Annotations panel opens.





- 3. To define an annotation, enter a key-value pair in the **New annotation** and **Annotation** value fields, respectively.
- 4. Click Add, and then click Apply.

The new annotation is added to the column. You can also edit an existing annotation from the **Manage Annotations** panel.