

ORACLE

The Move from SQL Developer Desktop to Oracle SQL Developer Extension for Visual Studio Code

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About Me

- Child of the 70s & 80s
- Global Citizen
- Married 30 years
- Proud farther of 2 daughters
- Sporty-ish for my age



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Agenda

- Introduction: Oracle SQL Developer Tools
- SQL Developer Extension for Visual Studio Code
- Oracle SQLcl Overview
- Q&A



Developer Tools: introduction

<https://www.oracle.com/database/sqldeveloper/>

Evolution of Developer Tools..

SQL*Plus

```
[oracle@mydbssystem5a1 ~]$ sqlplus sys@MYDB05_MYPDB01AI as sysdba
SQL*Plus: Release 23.0.0.0.0 - Production on Tue Dec 23 14:35:52 2025
Version 23.4.0.24.05

Copyright (c) 1982, 2024, Oracle. All rights reserved.

Enter password:

Connected to:
Oracle Database 23ai EE High Perf Release 23.0.0.0.0 - Production
Version 23.4.0.24.05

SQL> |
```

```
Oracle SQL*Plus
File Edit Search Options Help

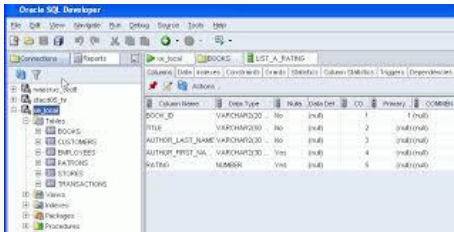
SQL*Plus: Release 10.2.0.1.0 - Production on Mon Oct 3 17:37:16 2005
Version 10.2.0.1.0

Copyright (c) 1982, 2005, Oracle Corporation. All rights reserved.

Connected to:
Oracle Database 10g Enterprise Edition Release 10.2.0.1.0 - Production
With the Partitioning and Data Mining options

SQL>
```

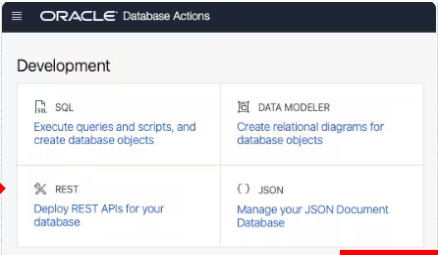
SQL Developer



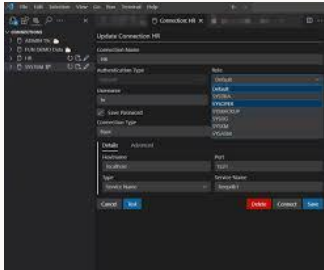
SQLcl



SQL Developer Web



SQL Dev MS VS Code



SQLcl MCP



Before 2000

2006

2016

2018

2024

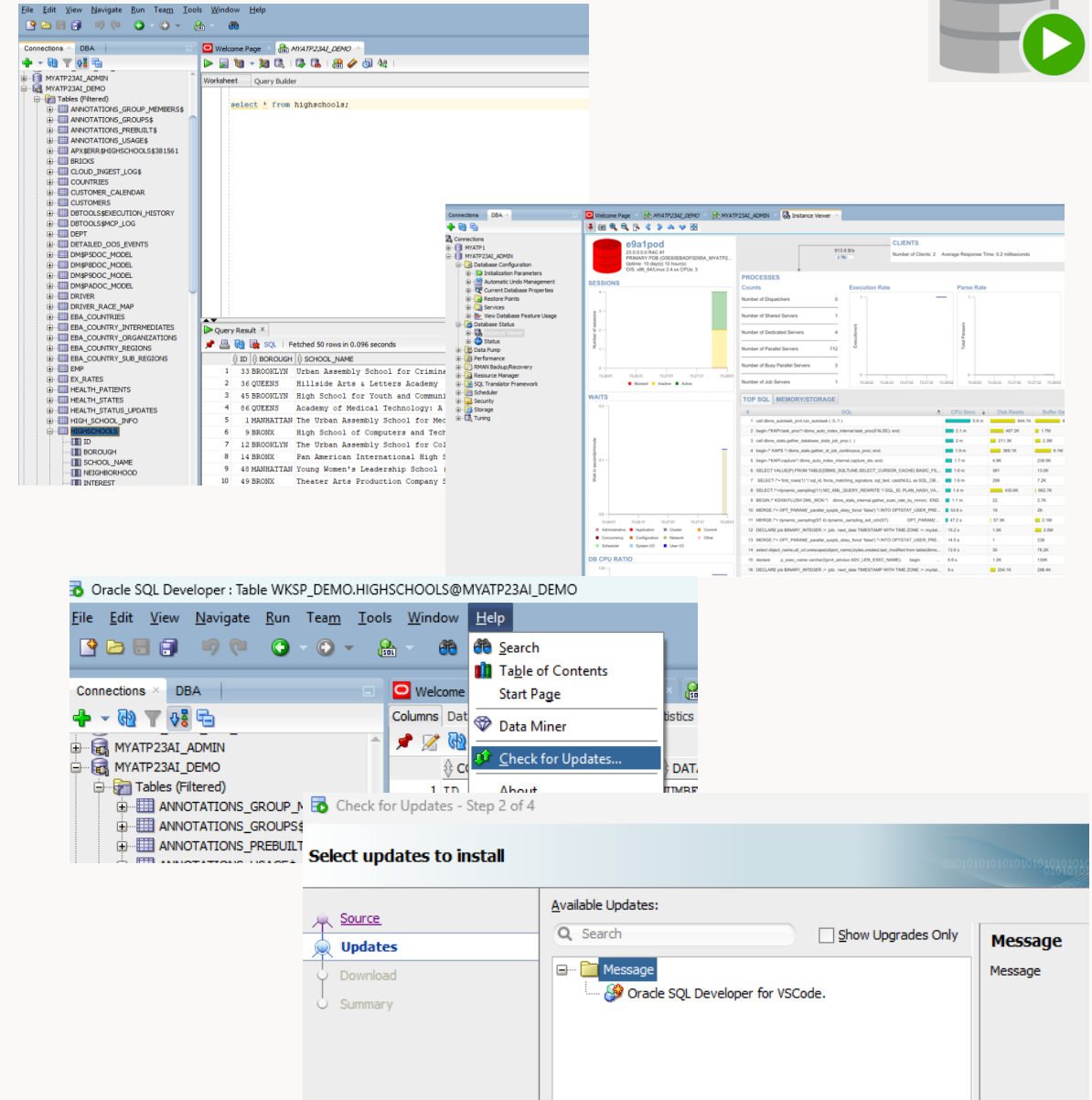
2025



Evolution of Developer Tools

Oracle SQL Developer Desktop

- Traditional IDE Desktop since 2005;
- For Developers and DBA
 - ✓ Browse Schema objects
 - ✓ Run SQL and PL/SQL (SQL Worksheet);
 - ✓ Export and Import data
 - ✓ Database Instance status and Administration tasks
 - ✓ Can migrate from third-party database
- Integrates with SQL Dev Data Modeler, Data Miner, OLAP
- SQL Developer latest release is 24.3.1, **bug fixes only, no new features**
 - ✓ Current Release Support extended to April 2027;
 - ✓ Any «Check for Updates» leads to **SQL Developer for VS Code**

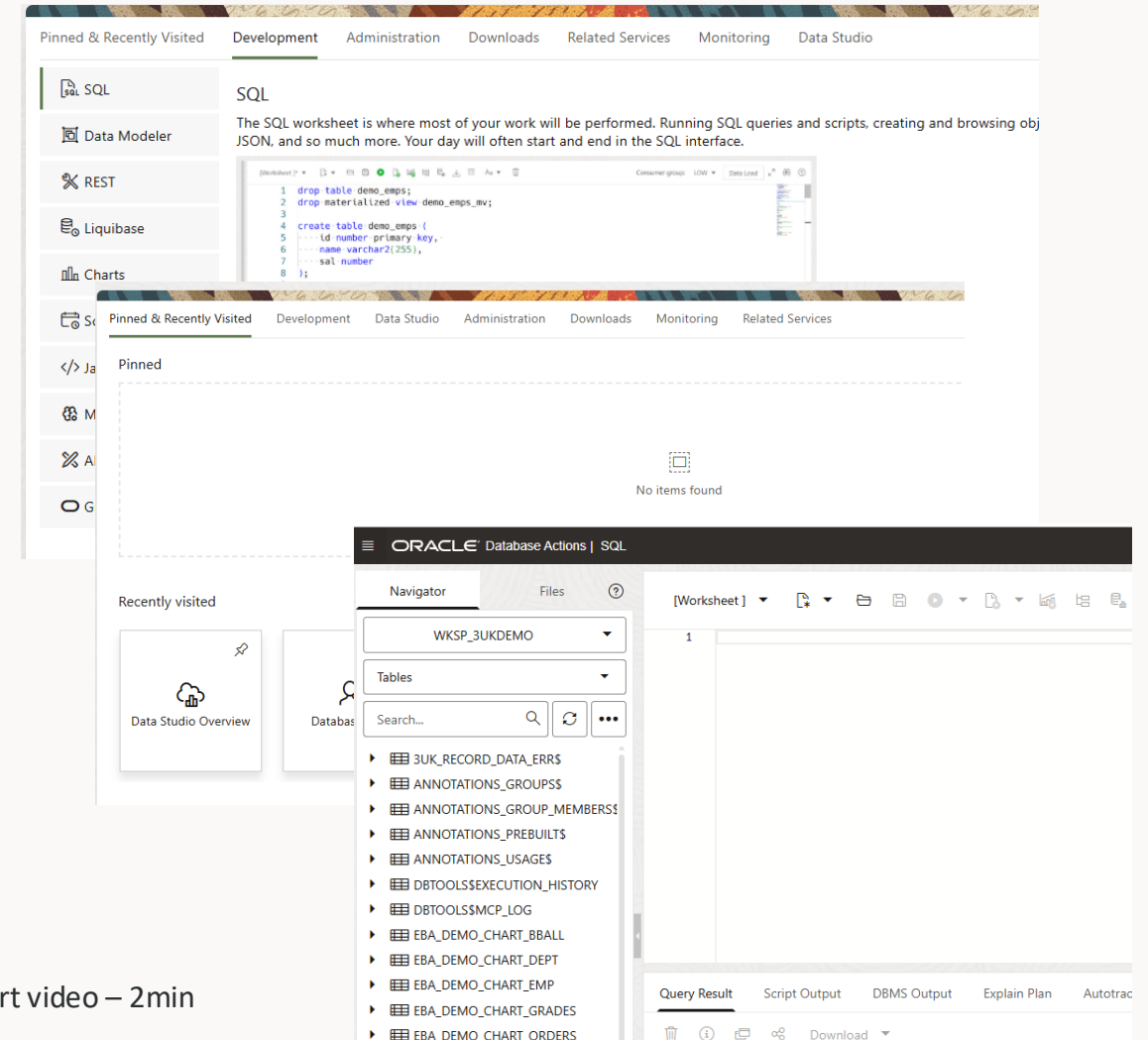




Evolution of Developer Tools

Database Actions/SQL Developer Web

- Web-based interface for development, data tools, admin and monitoring features for Oracle Database
 - ✓ on-premises and Oracle Database Cloud services
 - ✓ Pre-deployed with Oracle Autonomous DB
 - ❖ **ADMIN** user pre-enabled
- Runs on Oracle REST Data Services
 - ✓ To allow schema user to access DB Action it needs to be **ORDS-Enabled** first: [SYS and SYSTEM not supported](#)
- Many integrations
 - ✓ Liquibase, APEX, JSON, Data Modeler, Graph Studio, REST..
- Development and enhancements features **ongoing**
- Included in the Database Tools [managed service in OCI](#) in Oracle Cloud Infrastructure Console
 - ✓ Can be set up for [any Oracle Database](#)



[Access Database Actions](#)

[Database Actions browsing](#) Short video – 2min



Evolution of Developer Tools

SQL Developer Desktop vs Database Actions

Feature	SQL Developer Desktop	Database Actions (SQL Developer Web)	Parity
Platform	Desktop app	Web-based	✓
Data Pump Export/Import	Full GUI for import/export	Import UI Wizard available. Export: script via DBMS_DATAPUMP PL/SQL API	⚠
Table Data Import/Export (CSV/XLSX/JSON..)	Wizards for both directions, multi-format	Data Load Button from SQL Worksheet (CSV, JSON, XLS), Data Studio from local file and Cloud Storage	✓
SQL Worksheet & Database Object Browsing	Full-featured	Comprehensive (some advanced features missing)	✓
REST Data Services	Support	Full Support REST-enabled (objects, modules)	✓
Database Monitoring	DBA Tab, Full-Featured	Performance Hub, DB Dashboard (AWR GUI view limited)	✓
Data Modeler	Full-featured	ER Diagram features from existing data model only – allowed sharing data model diagrams between them	⚠

- ✓ = available
- ✗ = not available
- ⚠ = work in progress/partial/varies by environment or ORDS version



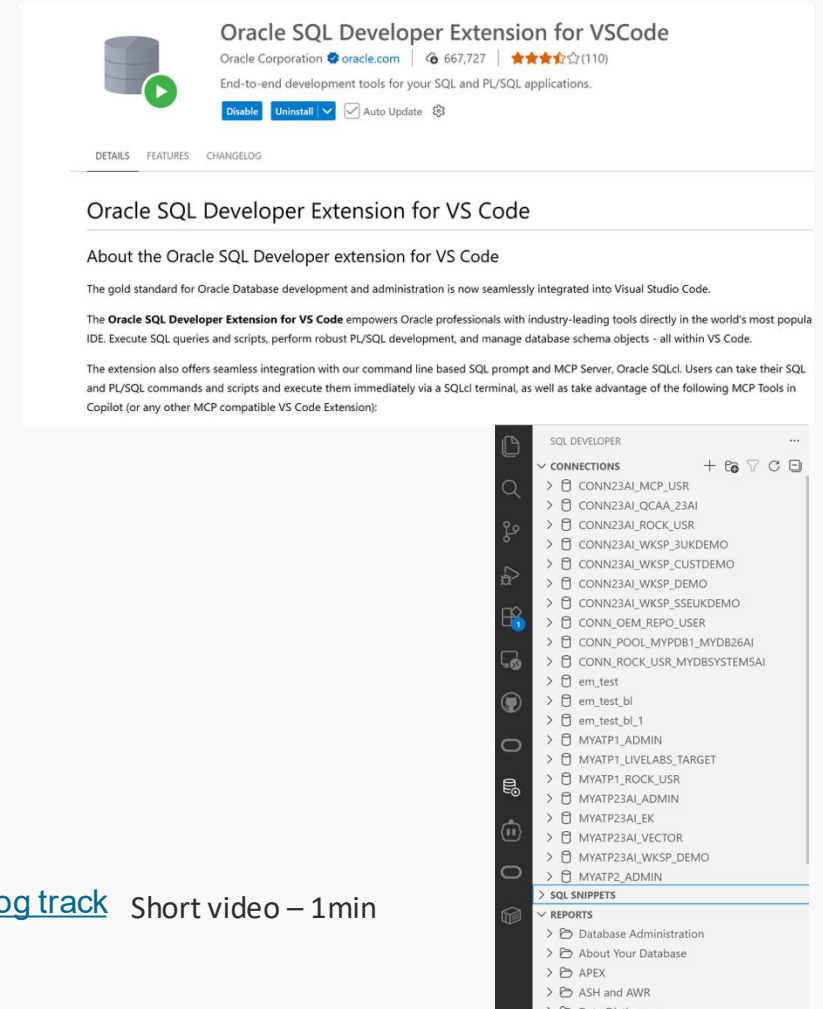
SQL Developer Extension for VS Code

SQL Tools for Developers: SQL Developer Extension for VS Code



SQL Developer Extension for Visual Studio Code:

- Embedded features of Oracle SQL Developer in MS Visual Studio Code platform – since **2024**
 - Current version (as of **Feb 2025**) is **25.4.1**
- Comes as an **extension** of VS Code platform: periodically updated (*changelog*)
- Keeps the SQL Developer “theme” intact:
 - Database Connections Section;
 - Database Schema objects browsing;
 - SQL and PL/SQL scripting and SQL Worksheet
- Supports Database versions from 11g up to 26ai;
- Since version **25.2** it supports SQLcl Model Context Protocol (MCP) Server



[Announcing Oracle SQL Developer extension for VS Code](#)

[SQL Dev Ext for VS Code Changelog track](#) Short video – 1min

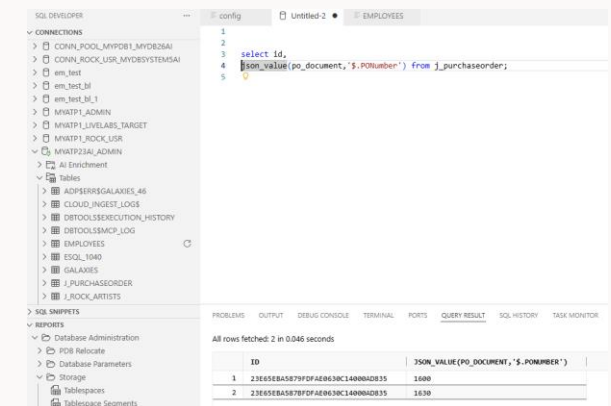
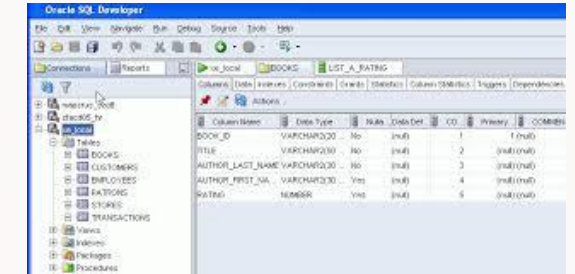
SQL Developer Extension for VS Code

From Oracle SQL Developer to VS Code

- MS Visual Studio Code is a largely used platform by Dev community:
 - ✓ Moving from traditional SQL Developer to VS Code rich IDE;
 - ✓ Our strong SQL Developer “legacy” porting to VS Code as a plug-in extension for VS Code to install;
- We can [Import SQL Developer Connections to VS Code](#)
- Important:**
 - ✓ All future **SQL Dev enhancements** will continue in VS Code, no longer for SQL Developer

“VS Code is a great platform with millions of developers and IT pros using it to build amazing things on just about every tech stack and programming language and framework you can think of. It was a natural fit, and logical decision for us to keep the SQL Developer legacy going strong by porting it to VS Code as an extension.” – Jeff Smith

[Definitive Guide to Moving from SQL Developer to VS Code](#)





SQL Developer Extension for VS Code

SQL Dev plug-in for VS Code and SQL Developer differences/limits

Feature/Capability	SQL Developer Desktop	SQL Dev Extension for VS Code	Parity
Data Export/Import	Full Support	Limited to Export table data (CSV, JSON, XML, INSERT SQL) as of now	
Data Pump Export/Import	Full UI Support (DBA or Dev with privileges)	Only via PL/SQL API SQL Worksheet	
ER Logical Model	Comprehensive Visual data Modeling, diagramming, referse engineering	Entity-Relationship Modeling available – support for existing Data Model	
Update & extensibility	No new features	Active Development on enhancements	
Monitoring and Performance	Full Support for Dev and DBA – Comprehensive	Real-Time SQL Monitor, Explain Plan, Debug, DB Admin reports	
Git Version/Control	Existing option	Via VS Code Git	

-  = available
-  = not available in VS Code extension
-  = work in progress/partial/planned in VS Code extension





SQL Developer Extension for VS Code

Some nice features..

SQL Notebook and Charts:

- Feature (25.2+) to run SQL and PL/SQL in Notebook style
 - ✓ Alternative to SQL Worksheet;
 - ✓ Offers a mix of markdown and application code;
 - ✓ Showing how code evolves over time (ie: Jupyter Notebooks)
- Since 25.3.0 (Oct 2025) Charting has been added to query results
 - ✓ Visualizing grid results as charts (pie, donut, area..)

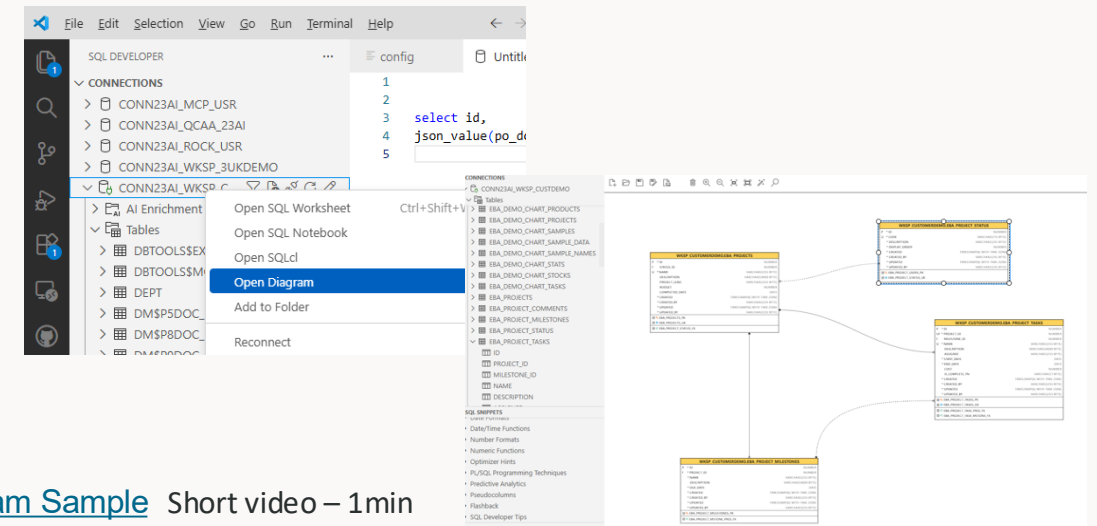
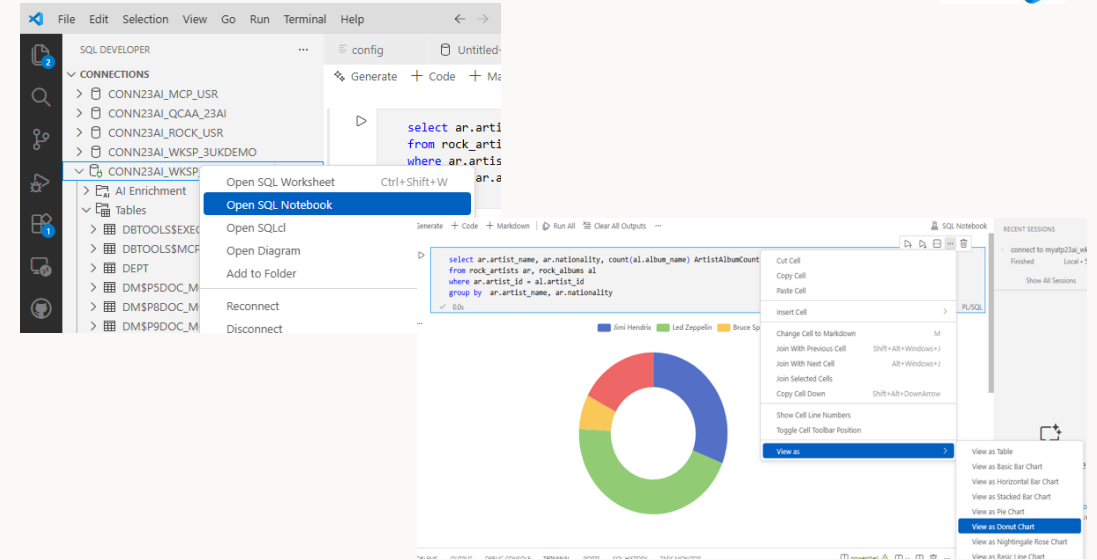
Open Diagram:

- Feature since (25.3.0): generate relational diagrams from your existing schema objects – no Logical Model creation
- You can drag and drop tables on the diagram sheet, save it and reopen it
 - ✓ Alt to drag and Shift buttons before dropping
- Zoom-in and Zoom-out capabilities

[SQL Notebooks in Oracle SQL Dev VS Code](#)

[SQL Developer for VS Code - Relational Diagrams](#)

[SQL Notebook and Open Diagram Sample](#) Short video – 1min



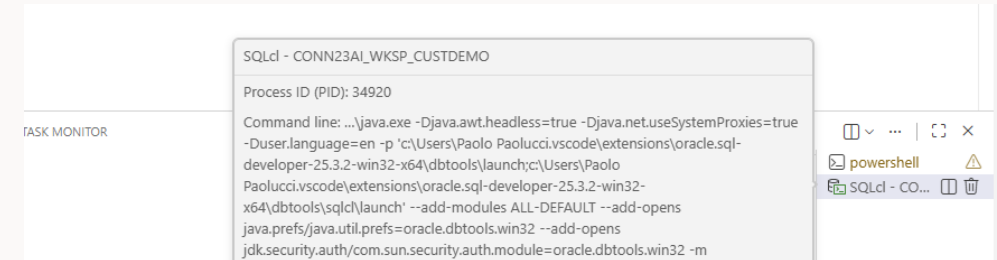
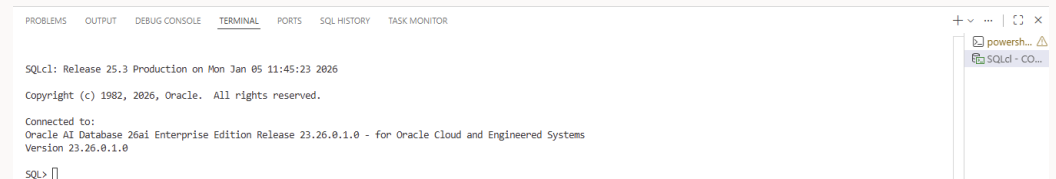
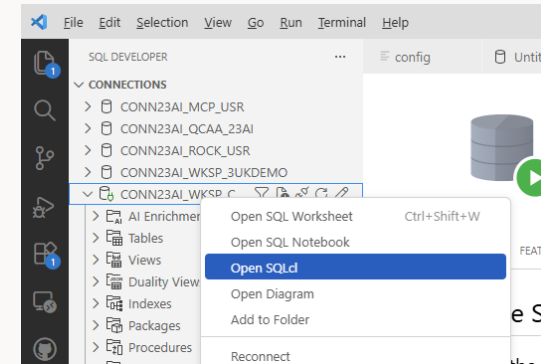


SQL Developer Extension for VS Code

Some nice features..

SQLcl Interface

- Command Line Interface integrated in SQL Dev for VS Code
 - ✓ SQLcl release coming with SQL Dev Extension version;
- You can use it for command line activities with full SQLcl features giving you an independent session in a single-click



[Oracle SQLcl integrated in VS Code](#)

[SQLcl Integration on SQL Dev Ext for VS Code](#) Short video – 1min



SQL Developer Extension for VS Code

Other features..

Table export:

- Exporting to various formats (CSV, text, HTML, XML, JSON)
- “Export” command searchable on Tables Details
 - ✓ Open table in grid format and access to export data functionalities

Real-Time SQL Monitor:

- Automatically activates when:
 - ✓ SQL Statement **runs** in parallel;
 - ✓ /*+ MONITOR */ hint is used in SQL execution statement
 - ✓ At least 5secs CPU or IO Time consumed per single execution
- User can view long-running SQL queries and performance metrics;
- Requires to run:
 - ✓ Database Tuning Pack (ADB and all DBs with more than EE are ok)
 - ✓ Administrative User or **SELECT_CATALOG_ROLE** granted

[Real Time SQL Monitor](#)

The screenshot displays the SQL Developer extension interface within VS Code. The top panel shows the 'EBA_PROJECTS' table in a grid view. The bottom panel shows the 'Real Time SQL Monitor' window, which displays a list of running SQL statements with columns for Status, Duration, Type, SQL ID, Plan Hash, User, Inst., Parallel, Database Time, and I/O Requests. A detailed view of a specific query is shown at the bottom right, including the SQL text and execution statistics.

ID	STATUS_ID	NAME	DESCRIPTION
1	1	3	Configure Web Environment
2	2	3	Train Developers
3	3	2	Migrate Legacy Applications
4	4	2	Develop Partner Portal POC
5	5	1	Develop Production Partner Portal
6	6	3	Develop New Reporting Apps
7	7	3	Develop IT Management Apps
8	8	3	Develop Customer Tracker
9	9	3	Implement Customer Satisfaction Application
10	10	3	Improve IT Management Apps
11	11	3	Develop Bug Application
12	12	3	Implement Customer Success Application

Status	Duration	Type	SQL ID	Plan Hash	User	Inst.	Parallel	Database Time	I/O Requests
✓ DONE	< 0.1 ms	SQL	grcchvntsfq	2644451524	WKSP_CUSTOMDEMO	3	0	13.3 ms	0
✓ DONE (ALL ROWS)	14.8 ms	SQL	grcchvntsfq	2644451524	WKSP_CUSTOMDEMO	3	0	14.3 ms	0
✓ DONE (ALL ROWS)	15.1 ms	SQL	grcchvntsfq	2644451524	WKSP_CUSTOMDEMO	3	0	14.3 ms	0
✓ DONE (ALL ROWS)	14.7 ms	SQL	grcchvntsfq	2644451524	WKSP_CUSTOMDEMO	3	0	13.8 ms	0
✓ DONE (ALL ROWS)	17.3 ms	SQL	grcchvntsfq	2644451524	WKSP_CUSTOMDEMO	3	0	13.9 ms	0
✓ DONE (ALL ROWS)	14.8 ms	SQL	grcchvntsfq	2644451524	WKSP_CUSTOMDEMO	3	0	13.8 ms	0
✓ DONE (ALL ROWS)	15 ms	SQL	grcchvntsfq	2644451524	WKSP_CUSTOMDEMO	3	0	13.8 ms	0
✓ DONE (ALL ROWS)	15.9 ms	SQL	grcchvntsfq	2644451524	WKSP_CUSTOMDEMO	3	0	13.4 ms	0
✓ DONE (ALL ROWS)	16.2 ms	SQL	grcchvntsfq	2644451524	WKSP_CUSTOMDEMO	3	0	14.3 ms	0
✓ DONE (ALL ROWS)	16.2 ms	SQL	grcchvntsfq	2644451524	WKSP_CUSTOMDEMO	3	0	13.9 ms	0
✓ DONE (ALL ROWS)	14.8 ms	SQL	grcchvntsfq	2644451524	WKSP_CUSTOMDEMO	3	0	13.8 ms	0
✓ DONE (ALL ROWS)	16.4 ms	SQL	grcchvntsfq	2644451524	WKSP_CUSTOMDEMO	3	0	14.6 ms	0

Real Time SQL Monitor

Overview Plan Statistics Plan Metrics Parallel

General

Status: DONE (ALL ROWS)

Execution Started: 05-Jan-2026 15:43:25

Last Refresh Time: 05-Jan-2026 15:43:25

Execution ID: 30332049

User: WKSP_CUSTOMDEMO

SQL Text

```
1 SELECT /*+ MONITOR PARALLEL(eba_demo_chart_emp, 4) FULL(eba_demo_chart_emp) */ FROM EBA_DEMO_CHART_EMP
```

Time & Wait Statistics

Duration: 5.9 ms

Database Time

I/O Statistics

Buffer Gets: 13

I/O Requests



Oracle SQLcl Overview



Oracle SQLcl

SQL Command Line Interface

- Powerful and flexible command-line interface designed for Oracle Database professionals (DBAs, Developers) – since 2016;
- Rich set of commands:
 - ✓ Data Pump
 - ✓ OCI Integration
 - ✓ REST Data Services
 - ✓ Data Guard;
 - ✓ Liquibase;
 - ✓ APEX and more..

```
SQL> help
For help on a topic type help <topic>
List of Help topics available:
/
@
@@
ABORT          ARCHIVE_LOG    ARGUMENT
BTITLE         CD             CERTIFICATE
COMPUTE        CONNECT        CONNMGR
DDL            DEFINE         DEL
EXECUTE        EXIT           FIND
INFORMATION    INPUT          JOBS
MLE            MODELER        NET
PAUSE          POPD           PRINT
REMARK         REPEAT         RESERVED_WORDS
SECRET         SET            SHOW
STARTUP        STORE          TIMING
VARIABLE       VAULT          WAIT4

ACCEPT         AWR            CHANGE
COPY           DESCRIBE       FORMAT
LIQUIBASE      OCI            OCIDMETRICS
PROJECT        REST           SHUTDOWN
TNSPING        TOSUB          WHICH
WHENEVER

ALIAS          BACKGROUND     BLOCKCHAIN_TABLE
CLEAR          CTAS           CTAS
DIRS           HISTORY        LOAD
OERR           OERR           OERR
PUSHD          SAVE           SPOOL
TTITLE         XQUERY

APEX           APPEND         BREAK
CODESCAN       DATAPUMP       DISCONNECT
HOST           MDS            ORAPKI
PASSWORD       SCRIPT         SSM
UNLOAD         UNLOAD         UNLOAD

AQ             BRIDGE         COLUMN
DBCCED        EDIT           IMMUTABLE_TABLE
MIGRATEADVISOR
PASSWD
RCV
SDK
START
UNLOAD
```

- Version **25.2+**: Runs as MCP Server Tools Mode
- Works with any supported Oracle Database (19c, 21c, 26ai)
 - ✓ Any edition, including FREE
 - ✓ Any deployment, On-prem, Hyperscalers (OCI, Azure, GCP, AWS)
- To run SQLcl: you need to install Oracle Java 17 or 21

More than 50 additional commands over SQL*PLUS!

```
Jeffreys-Mac-mini:bin thatjeffsmith$ ./sql -mcp
----- MCP SERVER STARTUP -----
MCP Server started successfully on Mon Jul 07 14:05:29 EDT 2025
Press Ctrl+C to stop the server
-----
█
```

[Using Oracle SQLcl](#)

Oracle SQLcl

Tool Features

- **Managing database connections:**
 - ✓ Create, delete, edit, clone connections;
 - ✓ Organize connection folders (ie: Prod, UAT, Dev..) and move connections to folder
 - ✓ **Note:** SQLcl named connection synchronized with SQL Developer Extension for VS Code (25.2+)



```
SQLcl: Release 25.3 Production on Wed Dec 24 12:36:07 2025
Copyright (c) 1982, 2025, Oracle. All rights reserved.

SQL>
SQL> connmgr list
.
+---- CONN23AI_MCP_USR
+---- CONN23AI_QCAA_23AI
+---- CONN23AI_ROCK_USR
+---- CONN23AI_WKSP_3UKDEMO
+---- CONN23AI_WKSP_CUSTDEMO
+---- CONN23AI_WKSP_DEMO
+---- CONN23AI_WKSP_SSEUKDEMO
+---- CONN_OEM_REPO_USER
+---- CONN_POOL_MYPDB1_MYDB26AI
+---- CONN_ROCK_USR_MYDBSYSTEM5AI
+---- MYATP1_ADMIN
+---- MYATP1_LIVELABS_TARGET
+---- MYATP1_ROCK_USR
+---- MYATP23AI_ADMIN
+---- MYATP23AI_EK
+---- MYATP23AI_VECTOR
+---- MYATP23AI_WKSP_DEMO
+---- MYATP2_ADMIN
+---- MYATP2_WKSP_DEMO
+---- em_test
+---- em_test_b1
|___ em_test_b1_1
```

```
SQL>connect -cloudconfig "<path_to_ADB_Wallet>/ADB_Wallet.zip" -save CONN23AI_MCP_USR mcp_usr/<password>@myadb23ai_medium
```

```
SQL> connmgr show CONN23AI_WKSP_CUSTDEMO
Name: CONN23AI_WKSP_CUSTDEMO
Connect String: myatp23ai_medium
User: wksp_customerdemo
Password: *****
Oracle.net.wallet_location: (SOURCE=(METHOD=FILE)(METHOD_DATA=(DIRECTORY=${TNS_ADMIN})))
TNSNAMES.ORA: C:\Users\Paolo Paolucci\AppData\Roaming\DBTools\connections\myatp23ai_medium\tnsnames.ora
TNS Descriptor: myatp23ai_medium = (description=(retry_count=20)(retry_delay=3)(address=(protocol=tcps)(port=1522)(host=ap.emea.oraclecloud.com))(connect_data=(service_name=MYATP23AI_WKSP_CUSTDEMO))(security=(ssl_server_dn_match=yes)))
SQL>
```



Oracle SQLcl

Tool Features

- **TABLES:**
 - ✓ Immediate command to list all the tables schema;
 - ✓ No need to query (as it is in SQL*Plus) `USER_TABLES`;
- **CTAS:**
 - ✓ Immediate extraction (DBMS_METADATA) of table DDL and `CREATE TABLE AS SELECT * FROM` SQL statement output;
- **OCI:**
 - ✓ Interactions with OCI Services (OCI GET, PUT on buckets and objects..)
- **LIQUIBASE:**
 - ✓ open-source database-independent library for tracking, managing and applying database schema changes
- **PROJECTS:**
 - ✓ Manages Database CI/CD extension helping developers managing database changes
- **APEX:**
 - ✓ Export APEX Applications and Workspaces and metadata info access

```
SQL> ctas rock_albums new_rock_albums

CREATE TABLE "WKSP_CUSTOMERDEMO"."NEW_ROCK_ALBUMS"
(
  "ALBUM_ID",
  "ALBUM_NAME",
  "ARTIST_ID",
  "US_RELEASE_YEAR",
  "UK_RELEASE_YEAR",
  "TYPE_OF_ALBUM",
  "US_PEAK_CHART_POSITION",
  "UK_PEAK_CHART_POSITION",
  "EDITION",
  "COMMENT_ON_ALBUM",
  PRIMARY KEY ("ALBUM_ID")
)
USING INDEX PCTFREE 10 INITRANS 20 MAXTRANS 255 COMPUTE STATISTICS
STORAGE(INITIAL 65536 NEXT 1048576 MINEXTENTS 1 MAXEXTENTS 2147483645
PCTINCREASE 0 FREELISTS 1 FREELIST GROUPS 1
BUFFER_POOL DEFAULT FLASH_CACHE DEFAULT CELL_FLASH_CACHE DEFAULT)
TABLESPACE "DATA" ENABLE
)
DEFAULT COLLATION "USING_NLS_COMP" SEGMENT CREATION IMMEDIATE
PCTFREE 10 PCTUSED 40 INITRANS 10 MAXTRANS 255
NOCOMPRESS LOGGING
STORAGE(INITIAL 65536 NEXT 1048576 MINEXTENTS 1 MAXEXTENTS 2147483645
PCTINCREASE 0 FREELISTS 1 FREELIST GROUPS 1
BUFFER_POOL DEFAULT FLASH_CACHE DEFAULT CELL_FLASH_CACHE DEFAULT)
TABLESPACE "DATA"
as
select * from ROCK_ALBUMS
```

```
SQL> oci get -host objectstorage.eu-frankfurt-1.oraclecloud.com /n/fro8f19kuqli/b/mystagebucket1/o/
Status:200 OK
{"objects":[{"name":"89-168-117-226.pem"}, {"name":"AlbumDataJimiHendrix.xlsx"}, {"name":"Invoice01.pdf"}, {"name":"RockArtists.xlsx"}, {"name":"RockConcerts.xlsx"}, {"name":"RockSingles.csv"}, {"name":"RockSingles.json"}, {"name":"RockSingles.xlsx"}, {"name":"RockSongs.xlsx"}, {"name":"SongsJimiHendrix.xlsx"}, {"name":"cwallet.sso"}, {"name":"movie.json"}, {"name":"my_collection.json"}, {"name":"XXXXXXXXXXXXXXXXXXXX"}]}
```

WORKSPACE_ID	WORKSPACE	APPLICATION_ID	APPLICATION_NAME	BUILD_STATUS	LAST_UPDATED_ON	LAST_UPDATED_BY
19987794194660792	CUSTOMER_DEMO	112	SampleSecurityApp	Run and Develop	06-NOV-25	CUSTOMER_DEMO
19987794194660792	CUSTOMER_DEMO	125	Highschools	Run and Develop	03-NOV-25	CUSTOMER_DEMO
19987794194660792	CUSTOMER_DEMO	126	ChatDB	Run and Develop	31-OCT-25	CUSTOMER_DEMO
19987794194660792	CUSTOMER_DEMO	128	APEX Rock Experience	Run and Develop	06-NOV-25	CUSTOMER_DEMO
19987794194660792	CUSTOMER_DEMO	135	Sample Charts	Run and Develop		
19987794194660792	CUSTOMER_DEMO	137	GestioneProgetti	Run and Develop	31-OCT-25	CUSTOMER_DEMO
19987794194660792	CUSTOMER_DEMO	139	APEX Social Media	Run and Develop		

[SQLcl Commands Sample](#) Short video – 1min

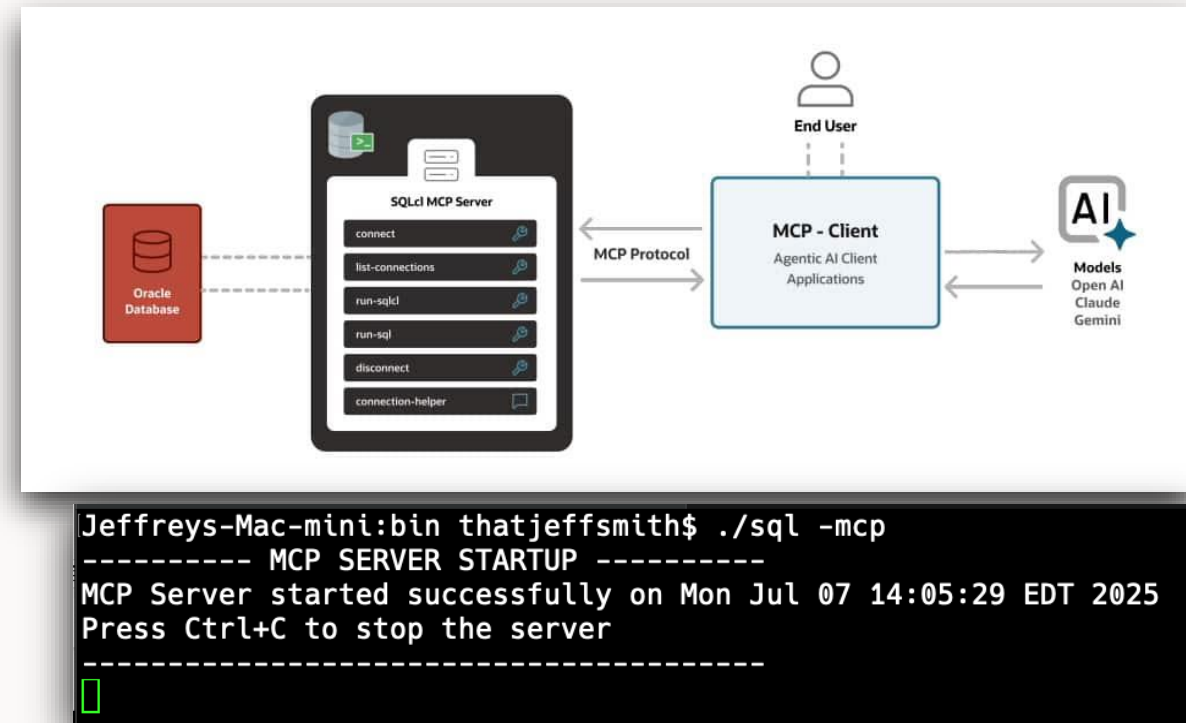


Oracle SQLcl MCP Server supportability

Now Oracle has its MCP Server model Context Protocol Integration

SQLcl **25.2** New Features – GA: **July 2025**

- You can perform operations, create reports, and run queries on Oracle Database using natural language through AI-powered interactions
- Database connections are securely managed using named saved SQLcl connections
- Runs as **MCP Server Mode – Tools**, provides for an agent
 - [Oracle Database Access via SQLcl Tools](#):
 - list-connections
 - connect/disconnect
 - run-sql
 - run-sqlcl
 - schema-information
- Works with any supported Oracle Database (19c, 21c, 26ai)
 - Any edition, including FREE
 - Any deployment, On-prem, Hyperscalers (OCI, Azure, GCP, AWS)..even on a laptop;

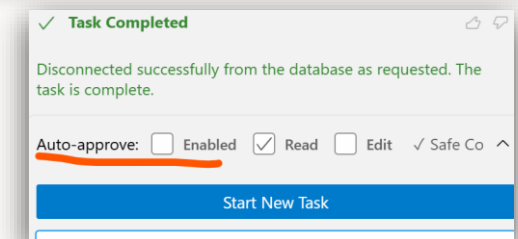
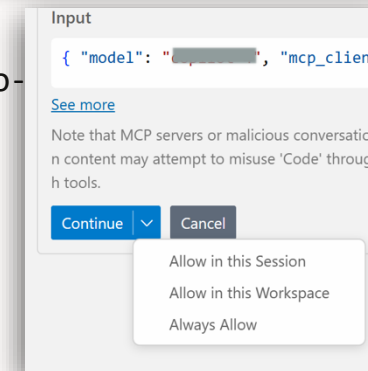
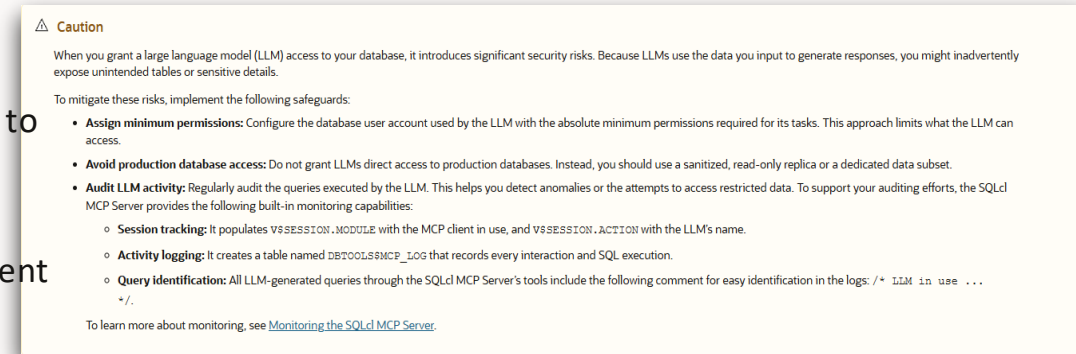


Runs locally, STDIO comms

SQLcl MCP Server – Prioritize Security!

AI/LLM/MCP - security is more important than ever

- **Least privilege principle:** use CONNECTIONs tied to database USERS having only the privs to view the data you want to share, and perform the actions you want an Agent to do on your behalf
- **Segregated environments:** use databases that have sanitized data, such as development and testing instances. PRODUCTION use should be strictly monitored
- **Do not trust, always verify:** use only AI assistants that ask for access to the SQLcl MCP Tools, and always review requested actions before approving them. NEVER enable 'auto-approve'



[Elevating Oracle Database Security for Safer SQLcl MCP Server and Agentic AI Usage](#)

SQLcl MCP Server – Prioritize Security!

Auditing Tools

SQLcl MCP Server

- **Session Tracking:** use V\$SESSION dynamic view to track current sessions, resource usage, of the active MCP connections and operations
 - ✓ *MODULE, ACTION, PROGRAM* view attributes
- **Activity Logging:** MCP Server uses DBTOOLS\$MCP_LOG table to record the execution history of every performed database operation;
 - ✓ Local audit table created in the schema;
 - ✓ Prune the DBTOOLS\$MCP_LOG table regularly (ie: record limit setting) to prevent excessive accumulation;

Input

```
{
  "mcp_client": "GitHub
Copilot",
  "model": "GitHub Copilot",
  "sql": "/* LLM in use is
GitHub Copilot */\nUPDATE
rock_sentences\nSET
embedding = VECTOR_EMBEDDING
(ALL_MINILM_L12_V2 USING
rock_sentences AS DATA);"
```

Active SQL	Explain Plan	Waits	Server	Client	Application	Contention	Long Operations
COMMAND	LAST_CALL_ET	PROGRAM	MODULE	ACTION			
(null)	51	SQLcl-MCP	gpt-4	run-sql			

MCP_CLIENT	MODEL	END_POINT_NAME	LOGMSG	CREATED_ON
vscode	claude-3	connect	Connect to MCP_USR	21/07/25 13
vscode	claude-3	run-sql	SELECT /* LLM in use is claude-3 */ table_name, owner, tablespa...	21/07/25 13
vscode	claude-3	run-sql	SELECT /* LLM in use is claude-3 */ * FROM MCP_USR.EMPLOYEES OR...	21/07/25 13
vscode	claude-3	run-sql	SELECT /* LLM in use is claude-3 */ column_name, data_type, nul...	21/07/25 13
vscode	claude-3	run-sql	SELECT /* LLM in use is claude-3 */ ID, NAME, SALA...	21/07/25 13



Demo and Q & A

Useful Resources

Resource References

- Oracle SQL Developer [Extension for VS Code](#)
- Oracle [Database Actions/SQL Developer Web](#)
- Useful public resources on our [github](#) page.
- Oracle Database Security for [SQLcl MCP Server](#) and Agentic AI usage
- [SQLcl MCP Server Users Guide](#)
- [Model Context Protocol Overview](#)
- LiveLabs
 - [Exploring the SQLcl MCP Server](#)



Announcement

[Announcing the Oracle Autonomous AI Database MCP Server](#)

Thank You



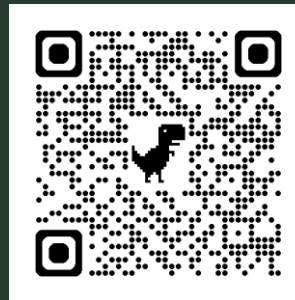
LinkedIn



BlueSky



Hashnode



The background of the slide is a dark green color. It features a pattern of concentric circles in a lighter shade of green, which are more prominent on the right side. In the top right corner, there is a large, solid yellow circle. The word "ORACLE" is centered in the middle of the slide in a white, sans-serif font.

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