

Oracle

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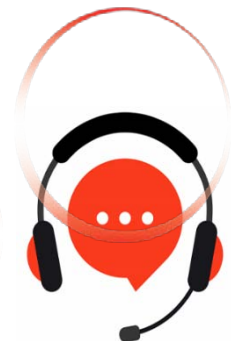
Agentic AI for Oracle AI Database Professional

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Question: 1

A vacation rental platform searches property embeddings through an HNSW index and always filters on region and nightly_price. Execution plans show the filtered searches repeatedly going back to the base table to read those two columns, and the team wants filtered searches to avoid these base-table lookups.

What should the team do?

Response:

- A. Raise the query's EFSEARCH so that more candidates pass the price and region filter
- B. Rebuild it with DBMS_VECTOR.REBUILD_INDEX in FULL mode to refresh the ROWID-to-VID map
- C. Recreate the HNSW index with INCLUDE (region, nightly_price) so the filter columns are held in the index
- D. Recreate it as a local HNSW index so each partition's graph carries its own region values

Answer: C

Explanation:

Included columns place filter attributes inside the HNSW index, declared with INCLUDE (...) before ORGANIZATION INMEMORY NEIGHBOR GRAPH. Filtered searches then evaluate region and price from the index itself.

Question: 2

A DBA at a parcel-delivery company has been asked to turn on the MCP Server for the company's Autonomous AI Database so that developers can connect Claude Desktop to it. The DBA's OCI group is allowed to use autonomous-databases in the tenancy.

How should the DBA enable the MCP Server?

Response:

- A. Run DBMS_CLOUD_AI_AGENT.CREATE_TOOL as the ADMIN user with an attributes value of {"name":"mcp_server","enable":true}
- B. Add an OCI free-form tag to the database named mcp_server with value {"name":"adb\$feature","enable":true}
- C. Turn on the MCP Server option on the Autonomous AI Database details page in the OCI Console, then restart the database
- D. Add an OCI free-form tag to the database with name adb\$feature and value {"name":"mcp_server","enable":true}

Answer: D

Explanation:

A free-form tag switches the server on: its name is adb\$feature and its value is the JSON naming mcp_server with enable true. Enabling creates the remote endpoint tied to the database OCID.

Question: 3

A water utility exposes an outage-report tool to its regional managers through the Autonomous AI Database MCP Server. Every manager signs in with their own database credentials. The security team requires that each manager see only the outage rows for their own region when calling the tool, and that the tool expose nothing beyond outage reporting.

Which two measures should the team use to meet these requirements?

(Choose two.)

Response:

- A. Rely on the MCP Server to limit every tool to Select-only access, so that managers cannot change rows in other regions
- B. Register only a narrowly scoped tool in the MCP login schema, and keep its PL/SQL function in a separate schema with grants
- C. Add a VPD policy with DBMS_RLS.ADD_POLICY whose predicate identifies the caller from the MCP server access context
- D. Add a VPD policy with DBMS_RLS.ADD_POLICY whose predicate compares the region column with SESSION_USER
- E. Set the region restriction in the AI profile that the tools use, since the MCP Server enforces AI profile controls

Answer: B,C

Explanation:

Oracle recommends a two-schema design: tools in the schema that MCP users sign in to, and the PL/SQL functions in another schema reached through grants. Registering only the outage tool keeps the exposed surface to that single operation.

Row-level control for MCP callers is done with VPD policies registered through DBMS_RLS.ADD_POLICY. The predicate must read the caller's identity from the MCP access context, because MCP tools run under a different session user.

Question: 4

An automotive parts supplier validates its vector index. For one test query, an approximate FETCH APPROX FIRST 10 ROWS ONLY returned only eight rows, and all eight are among the ten rows returned by the exact version of the same query. The index was created WITH TARGET ACCURACY 90.

What accuracy did the approximate search achieve for this query?

Response:

- A. 100%, as every row the approximate search returned is in the exact top-10
- B. 90%, as the query inherits the target accuracy set when the index was built
- C. 80%, as eight of the exact top-10 rows appear in the approximate result
- D. None, as an approximate top-10 is invalid without all ten rows

Answer: C

Explanation:

Accuracy is the overlap between the approximate result and the exact top-K for the same query. Eight of the exact ten were found, which is 80%, and the two missing rows count against the search.

Question: 5

An insurance company deploys an LLM-based assistant for its claims staff. Policy riders, exclusions and claim-handling procedures are stored in Oracle AI Database and are revised several times a day. Staff report that the assistant answers confidently but invents rider terms that do not exist and misses changes published that morning.

Which approach addresses the cause of these answers?

Response:

- A. Replace the LLM with a larger model that has more parameters and a more recent training cutoff
- B. Retrieve the relevant current policy text from the database at question time and pass it to the LLM with the question
- C. Retrain the LLM on the full policy library every night and serve the newly trained model to the claims staff
- D. Add an instruction to every prompt that tells the LLM to answer only from facts it is sure it learned during its training

Answer: B

Explanation:

The model knows only what was in its training data and nothing about private policy content that changed this morning, so it fills the gap by hallucinating. Retrieving the current text at generation time and supplying it with the question is RAG, and it grounds each answer in data that is up to date.

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