

# mcq-db-01-apr-2023

Total points 12/25



Upskill India Jan 2023 Program.

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I swear on my country (motherland), I swear on my mother tongue, I swear on my family, that I will take this test sincerely and honestly. \*



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12 of 25 points

✗ 24. Which of the following is a valid use case for a subquery using the NOT IN operator in PostgreSQL?

0/1

- ☒ A. To check if a subquery returns any results. ✗
- ☐ B. To check if a subquery returns no results.
- ☐ C. To compare a single value with multiple values returned by a subquery.
- ☐ D. To perform a partial match on a string value returned by a subquery.

Correct answer

- ☒ B. To check if a subquery returns no results.

✗ 12. Which clause is used to create an updatable view with a check option in PostgreSQL?

0/1

- ☒ a) WITH DATA ✗
- ☐ b) WITH CHECK OPTION
- ☐ c) WITH NO DATA
- ☐ d) WITH SECURITY DEFINER

Correct answer

- ☒ b) WITH CHECK OPTION

✓ 11.What is an updatable view in PostgreSQL?

1/1

☒ a) A view that can be modified using the UPDATE ,INSERT and DELETE statements. ✓

☐ b) A view that cannot be modified using any SQL statement.

☐ c) A view that cannot be modified

✗ 16.What is the main difference between a view and a materialized view?

0/1

☒ A. A view is a physical table, while a materialized view is a virtual table. ✗

☐ B. A view is updated in real-time, while a materialized view is not.

☐ C. A view is stored in memory, while a materialized view is stored on disk.

☐ D. A view stores the query used to generate the data, while a materialized view stores result set of query.

Correct answer

☒ D. A view stores the query used to generate the data, while a materialized view stores result set of query.

✓ 2.What types of indexes does PostgreSQL support?

1/1

☒ A. B-tree, hash, GiST, GIN, and SP-GiST ✓

☐ B. B-tree, heap, GiST, GIN, and R-tree

☐ C. B-tree, hash, GiST, B+-tree, and R-tree

☐ D. B-tree, heap, GiST, B+-tree, and SP-GiST

✓ 14. Which command is used to drop a view from a PostgreSQL database?

1/1

☒ a) DROP VIEW ✓

☐ b) DELETE VIEW

☐ c) REMOVE VIEW

☐ d) ERASE VIEW

✓ 9. Can views be used to restrict access to data in PostgreSQL?

1/1

☒ a) Yes ✓

☐ b) No

✗ 21. How is the data in a materialized view stored on disk?

0/1

☒ A. As a binary file. ✗

☐ B. As a CSV file.

☐ C. As a PostgreSQL table.

☐ D. As a compressed file.

Correct answer

☒ C. As a PostgreSQL table.

✓ 19. What is the advantage of using a materialized view over a regular view?

1/1

- ☒ A. Faster query performance.
- ☐ B. Lower disk usage.
- ☐ C. Easier to maintain.
- ☐ D. Supports data modification.



✓ 17. How is a materialized view different from a regular table?

1/1

- ☒ A. A materialized view does not support data modification.
- ☐ B. A materialized view can only be queried with SELECT statements.
- ☐ C. A materialized view is always sorted in a specific order.
- ☐ D. A materialized view is a temporary table that is deleted after use.



✗ 23. Which of the following is a valid use case for a subquery using the EXISTS operator in PostgreSQL?

0/1

- ☒ A. To compare a single value with multiple values returned by a subquery.
- ☐ B. To check if a subquery returns any results.
- ☐ C. To perform a partial match on a string value returned by a subquery.
- ☐ D. To check if a subquery returns no results.



Correct answer

- ☒ B. To check if a subquery returns any results.

✗ 20.Can you create an index on a materialized view?

0/1

- ☒ A. Yes, but it will slow down refresh times. ✗
- ☐ B. No, it is not possible to create an index on a materialized view.
- ☐ C. Yes, it will speed up query performance.
- ☐ D. Yes, but it will increase disk usage.

Correct answer

- ☒ C. Yes, it will speed up query performance.

✓ 1.What is indexing in PostgreSQL?

1/1

- ☒ A. A technique used to speed up data retrieval from tables by creating a separate data structure that stores a sorted copy of a portion of the data in the table ✓
- ☐ B. A method for encrypting data in a PostgreSQL database
- ☐ C. A process for backing up data in a PostgreSQL database
- ☐ D. A way to compress data in a PostgreSQL database

✓ 10.Which of the following is a benefit of using views in PostgreSQL?

1/1

- ☒ a) Views can be used to speed up queries ✓
- ☐ b) Views can be used to create temporary tables
- ☐ c) Views can be used to store data permanently

✗ 7.Which of the following is true about views in PostgreSQL?

0/1

- ☒ a) Views are physically stored on disk ✗
- ☐ b) Views can have their own indexes
- ☐ c) Views can be used to simplify complex queries

Correct answer

- ☒ c) Views can be used to simplify complex queries

✓ 5.What is the best practice for creating indexes in PostgreSQL?

1/1

- ☒ A. Create indexes on frequently queried columns ✓
- ☐ B. Create indexes on all columns in a table
- ☐ C. Create indexes on columns with low selectivity
- ☐ D. Create indexes on columns with a low cardinality

✗ 13.Which of the following statements is true about updatable views in PostgreSQL? 0/1

- ☒ a) Updatable views can be created using the WITH CHECK OPTION clause. ✗
- ☐ b) Updatable views cannot be created on views that include aggregation functions.
- ☐ c) Updatable views cannot be created on views that join multiple tables.
- ☐ d)all the above

Correct answer

- ☒ d)all the above

✓ 3.How can indexes improve database performance?

1/1

- ☒ A. By reducing the amount of time it takes to retrieve data from a table ✓
- ☐ B. By compressing data in a table
- ☐ C. By encrypting data in a table

✗ 22.What is the syntax for creating a materialized view in PostgreSQL?

0/1

- ☒ A. CREATE VIEW my\_materialized\_view AS SELECT ... ✗
- ☐ B. CREATE TEMPORARY TABLE my\_materialized\_view AS SELECT
- ☐ C. CREATE MATERIALIZED VIEW my\_materialized\_view AS SELECT ...

Correct answer

- ☒ C. CREATE MATERIALIZED VIEW my\_materialized\_view AS SELECT ...

✗ 6.What is a view in PostgreSQL?

0/1

- ☒ a) A table that stores data ✗
- ☐ b) A temporary table
- ☐ c) A virtual table that is created by a SELECT statement

Correct answer

- ☒ c) A virtual table that is created by a SELECT statement



✗ 15.What is a materialized view in PostgreSQL?

0/1

- ☒ A. A virtual table that stores the result of a SELECT query. ✗
- ☐ B. A physical table that stores the result of a SELECT query.
- ☐ C. A temporary table that stores the result of a SELECT query.
- ☐ D. A table that stores the result of a stored procedure.

Correct answer

- ☒ B. A physical table that stores the result of a SELECT query.

✗ 18.How do you refresh the data in a materialized view?

0/1

- ☒ A. By running a SELECT statement on the materialized view. ✗
- ☐ B. By running a REFRESH MATERIALIZED VIEW command on the materialized view.
- ☐ C. By dropping and recreating the materialized view.
- ☐ D. By running a TRUNCATE command on the materialized view.

Correct answer

- ☒ B. By running a REFRESH MATERIALIZED VIEW command on the materialized view.

✓ 4.How do you create an index in PostgreSQL?

1/1

- ☒ A. Using the CREATE INDEX statement ✓
- ☐ B. Using the ALTER INDEX statement
- ☐ C. Using the CREATE TABLE statement
- ☐ D. Using the ALTER TABLE statement

✓ 8.Can views be updated in PostgreSQL?

1/1

- ☒ a) Yes ✓
- ☐ b) No

✗ 25.Which of the following is a valid use case for a subquery using the IN operator in PostgreSQL? 0/1

- ☒ A. To check if a subquery returns any results. ✗
- ☐ B. To check if a subquery returns no results.
- ☐ C. To compare a single value with multiple values returned by a subquery.
- ☐ D. To perform a partial match on a string value returned by a subquery.

Correct answer

- ☒ C. To compare a single value with multiple values returned by a subquery.

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