

Use Room for data persistence

Let's do a quick test! You must answer at least 7 questions correctly to pass this quiz.

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1. Which of the following statements is not true about the `@Query` annotation?

- ☐ The `@Query` annotation is used with a method in the DAO.
- ☐ The `@Query` annotation corresponds to a `SELECT` query.
- ☐ The `@Query` annotation can pass arguments into a SQL statement by preceding their name with a colon.
- ☒ The `@Query` annotation can only be used with a suspend function. ✓ Correct!

2. Which of the following statements are true about the DAO?

- ☐ DAO functions use annotations like `@Insert` and `@Update` that correspond to an operation on the database.
- ☐ DAO functions can return a flow.
- ☐ Instances of DAO classes are referenced in the `AppDatabase` class.
- ☒ All of the above ✓ Correct!

3. The Database class, inheriting from the RoomDatabase class, is responsible for ____.

☒ Instantiating the database and providing access to the DAO. ☒ Correct!

☐ Representing individual data tables.

☐ Defining functions that map to SQL statements, such as `SELECT` queries.

☐ Provides data to the UI.

4. The purpose of the DAO is to:

☐ Hold reference to the view models and the database.

☒ Define functions that map to SQL statements, such as `SELECT`, and `INSERT` queries. ☒ Correct!

☐ Provide a factory method to create a database instance.

☐ Create a new database instance.

5. Why do you need to use the `synchronized()` function when you create the database?

Choose as many answers as you see fit.

☐ It lets you create multiple copies of the database.

☒ It lets you safely access the code from multiple threads at once. ☒ Correct!

☒ It is used to avoid race conditions. ☒ Correct!

☒ It ensures only one thread can enter the block of code at once. ☒ Correct!

6. You can use the `@Insert` and `@Delete` annotations without providing a SQL statement.

☒ True ☒ Correct!

☐ False

7. Fill-in-the-blanks

Enter one or more words to complete the sentence.

To handle conflicts when inserting into a database, you can pass a(n)

onConflict

parameter, such as IGNORE, to the @Insert annotation.

☒ Correct!

8. Select all the statements that are true about the Database Inspector:

Choose as many answers as you see fit.

☒ It lets you inspect, query, and modify your app's databases while your app is running.

☒ Correct!

☐ It works with other SQLite libraries that you bundle with your app.

☒ It is especially useful for database debugging.

☒ Correct!

☒ It works with plain SQLite and with libraries built on top of SQLite, such as Room.

☒ Correct!

9. Entities represent individual data tables in the Room database.

☒ True ☒ Correct!

☐ False

10. Which of the following statement is not true about the primary key:

☐ You can use the primary key to uniquely identify every record/entry in your database tables.

- ☐ After you assign the primary key, you cannot modify it.
- ☒ Room generates an incrementing primary key value for each entity by default. ✓ Correct!
- ☐ The primary key represents the entity object as long as it exists in the database.

Results

You scored **10 out of 10**. Congratulations! You have passed this quiz.

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