

# 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 is false 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 are true about the DAO?

Choose as many answers as you see fit.

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

## 3. Why do you need to use the `synchronized()` function when creating the database?

Choose as many answers as you see fit.

- ☐ `synchronized()` is used to avoid race conditions.
- ☐ `synchronized()` ensures only one thread can enter the block of code at once.
- ☒ Doing so allows multiple copies of the database to be created. ✓ Correct!
- ☒ Calling `synchronized()` allows this code to be safely accessed from multiple threads at once. ✓ Correct!

## 4. Which of the following is false about the `AppDatabase` class?

- ☐ `AppDatabase` is an abstract class that inherits from `RoomDatabase`.
- ☒ The `AppDatabase` holds a reference to the view models. ✓ Correct!
- ☐ The `@Database` annotation specifies the entities (tables) in the database.
- ☐ The `getDatabase()` function can create a new database, pre-populated from a file.

## 5. The `@Insert` and `@Delete` annotations can be used without providing a SQL statement.

- ☒ True ✓ Correct!
- ☐ False

## 6. Which of the following is true about the `ViewModel` in an app using Room?

Choose as many answers as you see fit.

- ☒ The `ViewModel` interacts with the DAO. ✓ Correct!
- ☐ The `ViewModel` updates the UI on the main thread.
- ☒ The `ViewModel` exposes data from the database to your app's UI. ✓ Correct!
- ☐ The `ViewModel` is held by a reference in the `AppDatabase` class.

## 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 an `OnConflictStrategy`, such as `IGNORE`, to the `@Insert` annotation.

✓ Correct!

8. The `ViewModel` factory is a class that inherits from `___` and is responsible for creating instances of the `ViewModel` class.

- ☐ `ViewModelFactory`
- ☐ `ViewModelFactory.Provider`
- ☒ `ViewModelProvider.Factory` ✓ Correct!
- ☐ `ViewModelProvider`



9. True or False: In a Room app, the `Application` class allows other objects to access the `AppDatabase` class.

- ☒ True ✓ Correct!
- ☐ False

## Results

You scored 9 out of 9. Congratulations! You have passed this quiz.

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