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How to get data from database android studio. Get data from room database android kotlin. Get data from room database android example. Get all data from room database android.

I'm developing an Android app using Room database. I've already learnt to write values to database. As far as reading/fetching is concerned, I could get help only related to fetching whole list of values from the database (and populate them in a RecyclerView). However, I don't know how to fetch a single value from the database based on some criteria. Following is my code: User.kt @Entity(tableName = TABLE_NAME) data class User { @PrimaryKey(autoGenerate = true) val id: Int = 0, @ColumnInfo(name = "name") val name: String, @ColumnInfo(name = "email") val email: String, @ColumnInfo(name = "password") val password: String } We get TABLE_NAME from UserDao, UserViewModel.kt class UserViewModel(private val repository: UserRepository) : ViewModel() { val allUsers: LiveData = repository.allUsers.asLiveData() /** Launching a new coroutine to insert the data in a non-blocking way */ fun insert(user: User) = viewModelScope.launch { repository.insert(user) } } class UserViewModelFactory(private val repository: UserRepository) : ViewModelProvider.Factory { override fun create(modelClass: Class): T { if (modelClass.isAssignableFrom(UserViewModel::class.java)) { @Suppress("UNCHECKED_CAST") return UserViewModel(repository) as T } throw IllegalArgumentException("Unknown ViewModel class") } } UserRepository.kt class UserRepository(private val userDao: UserDao) { val allUsers: Flow = userDao.getAll() @Suppress("RedundantSuspendModifier") @WorkerThread suspend fun insert(user: User) { userDao.insert(user) } } UserDao.kt @Dao interface UserDao { @Query("SELECT * FROM " + TABLE_NAME) fun getAll(): Flow @Insert(onConflict = OnConflictStrategy.IGNORE) suspend fun insert(user: User) @Insert fun insertAll(vararg users: User) @Delete fun delete(user: User) @Query("DELETE FROM " + TABLE_NAME) suspend fun deleteAll() companion object { const val TABLE_NAME: String = "user table" } } UserDatabase.kt @Database(entities = arrayOf(User::class), version = 1, exportSchema = false) public abstract class UserDatabase : RoomDatabase() { abstract fun userDao(): UserDao private class UserDatabaseCallback(private val scope: CoroutineScope) : RoomDatabase.Callback() { override fun onCreate(db: SupportSQLiteDatabase) { super.onCreate(db) INSTANCE?.let { database -> scope.launch { populateUsers(database.userDao()) } } } suspend fun populateUsers(userDao: UserDao) { userDao.deleteAll() var user = User(name = "Admin", email = "admin@example.com", password = "admin123") userDao.insert(user) } } companion object { /** Singleton prevents multiple instances of database opening at the same time */ @Volatile private var INSTANCE: UserDatabase? = null fun getDatabase(context: Context, scope: CoroutineScope): UserDatabase { return INSTANCE?.let { instance = Room.databaseBuilder(context.applicationContext, UserDatabase::class.java, "user_database").addCallback(UserDatabaseCallback(scope)).build() INSTANCE = instance instance } } } MyApplication.kt class MyApplication : Application() { val applicationScope = CoroutineScope(SupervisorJob()) // Using by lazy so the database and the repository are only created // when they're needed rather than when the application starts val database by lazy { UserDatabase.getDatabase(this, applicationScope) } val userRepository by lazy { UserRepository(database.userDao()) } } Now, I want to create a login activity and try to login a user based on email and password. LoginActivity.kt class LoginActivity : AppCompatActivity() { private val userViewModel: UserViewModel by viewModels { UserViewModelFactory(application.userRepository) } override fun onCreate(savedInstanceState: Bundle?) { super.onCreate(savedInstanceState) setContentView(R.layout.activity_login) btnLogin.setOnClickListener { val email = editEmail.text.toString() val password = editPassword.text.toString() /** code to check whether user with this email and password exists or not */ } } I don't know how to fetch a user with matching email and password. Please help me with that. When you use the Room persistence library to store your app's data, you interact with the stored data by defining data access objects, or DAOs. Each DAO includes methods that offer abstract access to your app's database. At compile time, Room automatically generates implementations of the DAOs that you define. By using DAOs to access your app's database instead of query builders or direct queries, you can preserve separation of concerns, a critical architectural principle. DAOs also make it easier for you to mock database access when you test your app. Anatomy of a DAO You can define each DAO as either an interface or an abstract class. For basic use cases, you should usually use an interface. In either case, you must always annotate your DAOs with @Dao. DAOs don't have properties, but they do define one or more methods for interacting with the data in your app's database. The following code is an example of a simple DAO that defines methods for inserting, deleting, and selecting User objects in a Room database: @Dao interface UserDao { @Insert fun insertAll(vararg users: User) @Delete fun delete(user: User) @Query("SELECT * FROM user") fun getAll(): List } @Dao public interface UserDao { @Insert void insertAll(User... users); @Delete void delete(User user); @Query("SELECT * FROM user") List getAll(); } parameters. The following code shows an example of an @Update method that attempts to update one or more User objects in the database: @Dao interface UserDao { @Update fun updateUsers(vararg users: User) } @Dao public interface UserDao { @Update public void updateUsers(User... users); } Room uses the primary key to match passed entity instances to rows in the database. If there is no row with the same primary key, Room makes no changes. An @Update method can optionally return an int value indicating the number of rows that were updated successfully. Delete The @Delete annotation allows you to define methods that delete specific rows from a database table. Similarly to @insert methods, @Delete methods accept data entity instances as parameters. The following code shows an example of a @Delete method that attempts to delete one or more User objects from the database: @Dao interface UserDao { @Delete fun deleteUsers(vararg users: User) } @Dao public interface UserDao { @Delete public void deleteUsers(User... users); } Room uses the primary key to match passed entity instances to rows in the database. If there is no row with the same primary key, Room makes no changes. A @Delete method can optionally return an int value indicating the number of rows that were deleted successfully. Query methods The @Query annotation allows you to write SQL statements and expose them as DAO methods. Use these query methods to query data from your app's database, or when you need to perform more complex inserts, updates, and deletes. Room validates SQL queries at compile time. This means that if there's a problem with your query, a compilation error occurs instead of a runtime failure. Simple queries The following code defines a method that uses a simple SELECT query to return all of the User objects in the database: @Query("SELECT * FROM user") fun loadAllUsers(): Array @Query("SELECT * FROM user") public User[] loadAllUsers(); The following sections demonstrate how to modify this example for typical use cases. Most of the time, you only need to return a subset of the columns from the table that you are querying. For example, your UI might display just the first and last name for a user instead of every detail about that user. In order to save resources and streamline your query's execution, you should only query the fields that you need. Room allows you to return a simple object from any of your queries as long as you can map the set of result columns onto the returned object. For example, you can define the following object to hold a user's first and last name: data class NameTuple { @ColumnInfo(name = "first_name") val firstName: String?, @ColumnInfo(name = "last_name") val lastName: String? } public class NameTuple { @ColumnInfo(name = "first_name") public String firstName; @ColumnInfo(name = "last_name") @NonNull public String lastName; } Then, you can return that simple object from your query method: @Query("SELECT first_name, last_name FROM user") public List loadFullName(); Room understands that the query returns values for the first_name and last_name columns and that these values can be mapped onto the fields in the NameTuple class. If the query returns a column that doesn't map onto a field in the returned object, Room displays a warning. Pass simple parameters to a query Most of the time, your DAO methods need to accept parameters so that they can perform filtering operations. Room supports using method parameters as bind parameters in your queries. For example, the following code defines a method that returns all of the users above a certain age: @Query("SELECT * FROM user WHERE age > :minAge") fun loadAllUsersOlderThan(minAge: Int): Array @Query("SELECT * FROM user WHERE age > :minAge") public User[] loadAllUsersOlderThan(minAge: Int): Array @Query("SELECT * FROM user WHERE first_name LIKE :search " + "OR last_name LIKE :search") fun findUserWithName(search: String): List @Query("SELECT * FROM user WHERE age BETWEEN :minAge AND :maxAge") public User[]

`loadAllUsersBetweenAges`(int minAge, int maxAge): `@Query("SELECT * FROM user WHERE first_name LIKE :search " + "OR last_name LIKE :search")` public List findUserWithName(String request); Pass a collection of parameters to a query Some of a DAO methods might require you to pass in a variable number of parameters to a query. You can use `@Query("SELECT * FROM user WHERE region IN (:regions)")` fun until runtime. Room understands when a parameter represents a collection and automatically expands it at runtime based on the number of parameters provided. For example, the following code defines a method that returns information about all of the users from a subset of regions: `@Query("SELECT * FROM user WHERE region IN (:regions)")` fun `loadUsersFromRegions`(regions: List): List `@Query("SELECT * FROM user WHERE region IN (:regions)")` public List loadUsersFromRegions(List regions); Query multiple tables Some of your queries might require access to multiple tables to calculate the result. You can use JOIN clauses in your SQL queries to reference more than one table. The following code defines a method that joins three tables together to return the books that are currently on loan to a specific user: `@Query("SELECT * FROM book " + "INNER JOIN loan ON loan.book_id = book.id " + "INNER JOIN user ON user.id = loan.user_id " + "WHERE user.name LIKE :userName")` fun `findBooksBorrowedByNameSync`(userName: String): List `@Query("SELECT * FROM book " + "INNER JOIN loan ON loan.book_id = book.id " + "INNER JOIN user ON user.id = loan.user_id " + "WHERE user.name LIKE :userName")` public List findBooksBorrowedByNameSync(String userName); You can also define simple objects to return a subset of columns from multiple joined tables as discussed in Return a subset of a table's columns. The following code defines a DAO with a method that returns the names of users and the names of the books that they have borrowed: interface UserBookDao { `@Query("SELECT user.name AS userName, book.name AS bookName " + "FROM user, book " + "WHERE user.id = book.user_id")` fun loadUserAndBookNames(): LiveData // You can also define this class in a separate file. data class UserBook(val userName: String?, val bookName: String?) } `@Dao public interface UserBookDao { @Query("SELECT user.name AS userName, book.name AS bookName " + "FROM user, book " + "WHERE user.id = book.user_id") public LiveData loadUserAndBookNames(); // You can also define this class in a separate file, as long as you add the // "public" access modifier. static class UserBook { public String userName; public String bookName; } }` Return a multimap In Room 2.4 and higher, you can also query columns from multiple tables without defining an additional data class by writing query methods that return a multimap. Consider the example from the Query multiple tables section. Instead of returning a list of instances of a custom data class that holds pairings of User and Book instances, you can return a mapping of User and Book directly from your query method: `@Query("SELECT * FROM user" + "JOIN book ON user.id = book.user_id")` fun loadUserAndBookNames(): Map `@Query("SELECT * FROM user" + "JOIN book ON user.id = book.user_id")` public Map loadUserAndBookNames(); When your query method returns a multimap, you can write queries that use GROUP BY clauses, allowing you to take advantage of SQL's capabilities for advanced calculations and filtering. For example, you can modify your loadUserAndBookNames() method to only return users with three or more books checked out: `@Query("SELECT * FROM user" + "JOIN book ON user.id = book.user_id " + "GROUP BY user.name WHERE COUNT(book.id) >= 3")` fun loadUserAndBookNames(): Map `@Query("SELECT * FROM user" + "JOIN book ON user.id = book.user_id " + "GROUP BY user.name WHERE COUNT(book.id) >= 3")` public Map loadUserAndBookNames(); If you don't need to map entire objects, you can also return mappings between specific columns in your query by setting the keyColumn and valueColumn attributes in a `@MapInfo` annotation on your query method: `@MapInfo(keyColumn = "userName", valueColumn = "bookName")` `@Query("SELECT user.name AS username, book.name AS bookname FROM user" + "JOIN book ON user.id = book.user_id")` fun loadUserAndBookNames(): Map `@MapInfo(keyColumn = "userName", valueColumn = "bookName")` `@Query("SELECT user.name AS username, book.name AS bookname FROM user" + "JOIN book ON user.id = book.user_id")` public Map loadUserAndBookNames(); Special return types Room provides some special return types for integration with other API libraries. Paginated queries with the Paging library Room supports paginated queries through integration with the Paging library. In Room 2.3.0-alpha01 and higher, DAOs can return PagingSource objects for use with Paging 3. `@Dao interface UserDao { @Query("SELECT * FROM users WHERE label LIKE :query") PagingSource pagingSource(query: String) }` For more information about choosing type parameters for a PagingSource, see Select key and value types. Direct cursor access If your app's logic requires direct access to the return rows, you can write your DAO methods to return a Cursor object as shown in the following example: `@Dao interface UserDao { @Query("SELECT * FROM user WHERE age > :minAge LIMIT 5") fun loadRawUsersOlderThan(minAge: Int): Cursor }` `@Dao public interface UserDao { @Query("SELECT * FROM user WHERE age > :minAge LIMIT 5") public Cursor loadRawUsersOlderThan(int minAge); }` Caution: Use of the Cursor API is highly discouraged because it doesn't guarantee that the rows exist or what values the rows contain. Only use this functionality if you already have code that expects a cursor and that you can't refactor easily. Additional resources To learn more about accessing data using Room DAOs, see the following additional resources: Samples Codelabs Android Room with a View (Java) (Kotlin)



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