

SQLite

Лекция №7

Дроздов Артём





Основные методы

- insert
- delete
- update
- query
 execSQL
- 6. rawQuery7. beginTransaction/endTransaction





Insert

```
ContentValues values = new ContentValues();
values.put(COLUMN_NAME_TITLE, title);
values.put(COLUMN_NAME_SUBTITLE, subtitle);
```

long newRowld = db.insert(TABLE_NAME, null, values);





Delete

```
String selection = COLUMN_NAME_TITLE + "LIKE ?";
String[] selectionArgs = { "MyTitle" };
```

db.delete(TABLE_NAME, selection, selectionArgs);





Update





```
Query
String[] projection = {
     COLUMN_NAME_TITLE,
     COLUMN NAME SUBTITLE
};
String selection = COLUMN_NAME_TITLE + " = ?";
String[] selectionArgs = { "My Title" };
String sortOrder = COLUMN_NAME_SUBTITLE + " DESC";
Cursor c = db.query(TABLE_NAME, projection, selection, selectionArgs, null /*groupBy*/, null /*having*/, sortOrder);
```





execSQL





rawQuery

```
String query = "SELECT" +

COLUMN_NAME_TITLE + "," + COLUMN_NAME_SUBTITLE +

"FROM" + TABLE_NAME + "WHERE" +

COLUMN_NAME_TTTLE + "=?";

String[] params = new String[] { title };

db.rawQuery(query, params);
```





Transactions

```
db.beginTransaction();
try {
    //select, insert, update, delete...
    db.setTransactionSuccessful();
} finally {
    db.endTransaction();
}
```



SQLiteOpenHelper



Helper class

```
public class DbHelper extends SQLiteOpenHelper {
  int DATABASE_VERSION = 1;
  String DATABASE_NAME = "DatabaseName.db";
  public DbHelper(Context context) {
     super(context, DATABASE_NAME, null, DATABASE_VERSION);
  }
  public void onCreate(SQLiteDatabase db) {
  }
  public void onUpgrade(SQLiteDatabase db, int oldVer, int newVer) {
  }
  public void onDowngrade(SQLiteDatabase db, int oldVer, int newVer) {
  }
}
```



SQLiteOpenHelper



Obtaining database

```
DbHelper dbHelper = new DbHelper(); //...
```

SQLiteDatabase db = dbHelper.getWritableDatabase();

Рекомендации



- 1. Используйте синглтон для хранения и доступа к SQLiteDatabase
- 2. Работайте в одном потоке (разумеется, не UI)
- з. Выносите все запросы в отдельный класс

4. Используйте транзакции



ORM





Entity

```
@DatabaseTable(tableName = "user")
public class User {
    @DatabaseField(id = true) String username;
    @DatabaseField String password;
public User() {
    }
    public User(String username, String password) {
        this.username = username;
        this.password = password;
    }
}
```





```
Dao<br/>
Dao<br/>
Dao<br/>
User, Integer> dao = helper.getUserDao();<br/>
List<User> list = dao.queryForAll();<br/>
User user = new User();<br/>
dao.create(user);<br/>
dao.delete(user);
```

Список ORM



- 1. OrmLite
- 2. ActiveAndroid

- 3. GreenDao
- 4. DBFlow
- 5. Ollie



Конец! Парам-парам-пам!

Спасибо за внимание!