**Обновление и удаление строки в базе данных SQLite**

На этом уроке рассмотрим , как обновлять и удалять строки в базе данных SQLite методами update и delete. Исходный код примера под видео:

activity\_main.xml

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| --- | --- |
| 1  2  3  4  5  6  7  8  9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24  25  26  27  28  29  30  31  32  33  34  35  36  37  38  39  40  41  42  43  44  45  46  47  48  49  50  51  52  53  54  55  56  57  58  59  60  61  62  63  64  65  66 | <?xml version="1.0" encoding="utf-8"?>  <LinearLayout      xmlns:android="http://schemas.android.com/apk/res/android"      android:layout\_width="fill\_parent"      android:layout\_height="fill\_parent"      android:orientation="vertical">      <EditText          android:id="@+id/etId"          android:hint="Id"          android:layout\_width="match\_parent"          android:layout\_height="wrap\_content">      </EditText>            <EditText              android:id="@+id/etName"              android:hint="Name"              android:layout\_width="match\_parent"              android:layout\_height="wrap\_content">          </EditText>            <EditText              android:id="@+id/etEmail"              android:hint="Email"              android:layout\_width="match\_parent"              android:layout\_height="wrap\_content">          </EditText>        <LinearLayout          android:layout\_width="match\_parent"          android:layout\_height="wrap\_content">          <Button              android:id="@+id/btnUpd"              android:layout\_width="wrap\_content"              android:layout\_height="wrap\_content"              android:text="Update">          </Button>          <Button              android:id="@+id/btnDel"              android:layout\_width="wrap\_content"              android:layout\_height="wrap\_content"              android:text="Delete">          </Button>      </LinearLayout>      <LinearLayout          android:layout\_width="match\_parent"          android:layout\_height="wrap\_content">          <Button              android:id="@+id/btnAdd"              android:layout\_width="wrap\_content"              android:layout\_height="wrap\_content"              android:text="Add">          </Button>          <Button              android:id="@+id/btnRead"              android:layout\_width="wrap\_content"              android:layout\_height="wrap\_content"              android:text="Read">          </Button>          <Button              android:id="@+id/btnClear"              android:layout\_width="wrap\_content"              android:layout\_height="wrap\_content"              android:text="Clear">          </Button>      </LinearLayout>  </LinearLayout> |

DBHelper.java

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| --- | --- |
| 1  2  3  4  5  6  7  8  9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24  25  26  27  28  29  30  31  32  33  34  35 | package ...    import android.content.Context;  import android.database.sqlite.SQLiteDatabase;  import android.database.sqlite.SQLiteOpenHelper;    public class DBHelper  extends SQLiteOpenHelper{        public static final int DATABASE\_VERSION = 1;      public static final String DATABASE\_NAME = "contactDb";      public static final String TABLE\_CONTACTS = "contacts";        public static final String KEY\_ID = "\_id";      public static final String KEY\_NAME = "name";      public static final String KEY\_MAIL = "mail";        public DBHelper(Context context) {          super(context, DATABASE\_NAME, null, DATABASE\_VERSION);      }        @Override      public void onCreate(SQLiteDatabase db) {          db.execSQL("create table " + TABLE\_CONTACTS + "(" + KEY\_ID                  + " integer primary key," + KEY\_NAME + " text," + KEY\_MAIL + " text" + ")");        }        @Override      public void onUpgrade(SQLiteDatabase db, int oldVersion, int newVersion) {          db.execSQL("drop table if exists " + TABLE\_CONTACTS);            onCreate(db);        }  } |

MainActivity.java

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| --- | --- |
| 1  2  3  4  5  6  7  8  9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24  25  26  27  28  29  30  31  32  33  34  35  36  37  38  39  40  41  42  43  44  45  46  47  48  49  50  51  52  53  54  55  56  57  58  59  60  61  62  63  64  65  66  67  68  69  70  71  72  73  74  75  76  77  78  79  80  81  82  83  84  85  86  87  88  89  90  91  92  93  94  95  96  97  98  99  100  101  102  103  104  105  106  107  108  109  110  111 | package ...    import android.content.ContentValues;  import android.database.Cursor;  import android.database.sqlite.SQLiteDatabase;  import android.os.Bundle;  import android.support.v7.app.AppCompatActivity;  import android.util.Log;  import android.view.View;  import android.widget.Button;  import android.widget.EditText;    public class MainActivity extends AppCompatActivity implements View.OnClickListener{        Button btnAdd, btnRead, btnClear, btnUpd, btnDel;      EditText etName, etEmail, etId;        DBHelper dbHelper;        @Override      protected void onCreate(Bundle savedInstanceState) {          super.onCreate(savedInstanceState);          setContentView(R.layout.activity\_main);            btnAdd = (Button) findViewById(R.id.btnAdd);          btnAdd.setOnClickListener(this);            btnRead = (Button) findViewById(R.id.btnRead);          btnRead.setOnClickListener(this);            btnUpd = (Button) findViewById(R.id.btnUpd);          btnUpd.setOnClickListener(this);            btnDel = (Button) findViewById(R.id.btnDel);          btnDel.setOnClickListener(this);            btnClear = (Button) findViewById(R.id.btnClear);          btnClear.setOnClickListener(this);            etName = (EditText) findViewById(R.id.etName);          etEmail = (EditText) findViewById(R.id.etEmail);          etId = (EditText) findViewById(R.id.etId);            dbHelper = new DBHelper(this);      }        @Override      public void onClick(View v) {            String name = etName.getText().toString();          String email = etEmail.getText().toString();          String id = etId.getText().toString();            SQLiteDatabase database = dbHelper.getWritableDatabase();            ContentValues contentValues = new ContentValues();              switch (v.getId()) {                case R.id.btnAdd:                  contentValues.put(DBHelper.KEY\_NAME, name);                  contentValues.put(DBHelper.KEY\_MAIL, email);                    database.insert(DBHelper.TABLE\_CONTACTS, null, contentValues);                  break;                case R.id.btnRead:                  Cursor cursor = database.query(DBHelper.TABLE\_CONTACTS, null, null, null, null, null, null);                    if (cursor.moveToFirst()) {                      int idIndex = cursor.getColumnIndex(DBHelper.KEY\_ID);                      int nameIndex = cursor.getColumnIndex(DBHelper.KEY\_NAME);                      int emailIndex = cursor.getColumnIndex(DBHelper.KEY\_MAIL);                          do {                              Log.d("mLog", "ID = " + cursor.getInt(idIndex) +                                              ", name = " + cursor.getString(nameIndex) +                                              ", email = " + cursor.getString(emailIndex));                          } while (cursor.moveToNext());                  } else                      Log.d("mLog","0 rows");                    cursor.close();                  break;                case R.id.btnClear:                  database.delete(DBHelper.TABLE\_CONTACTS, null, null);                  break;                case R.id.btnUpd:                  if (id.equalsIgnoreCase("")){                      break;                  }                  contentValues.put(DBHelper.KEY\_MAIL, email);                  contentValues.put(DBHelper.KEY\_NAME, name);                  int updCount = database.update(DBHelper.TABLE\_CONTACTS, contentValues, DBHelper.KEY\_ID + "= ?", new String[] {id});                    Log.d("mLog", "updates rows count = " + updCount);                case R.id.btnDel:                  if (id.equalsIgnoreCase("")){                      break;                  }                  int delCount = database.delete(DBHelper.TABLE\_CONTACTS, DBHelper.KEY\_ID + "=" + id, null);                    Log.d("mLog", "deleted rows count = " + delCount);            }          dbHelper.close();      }  } |