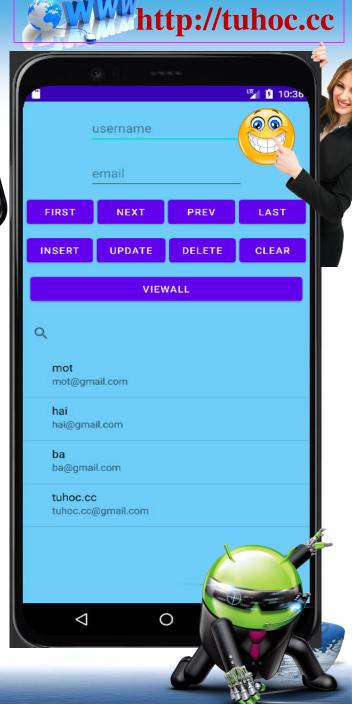


insert, select, update, delete and display data in listview

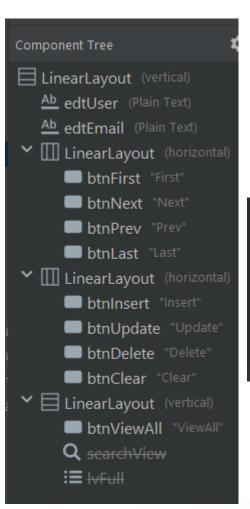


You Tube Sà Lại Lập Trình



1

Thiết kế layout ứng dụng



Full code bài 22-4

http://android.tuhoc.cc/

₹ 22-4.bai22-4-crud-sqlite-tuhoc.cc.zip ♣

<SearchView

android:id="@+id/searchView"
android:layout_width="match_parent"

android:layout_height="63dp"
android:visibility="gone" />

<ListView

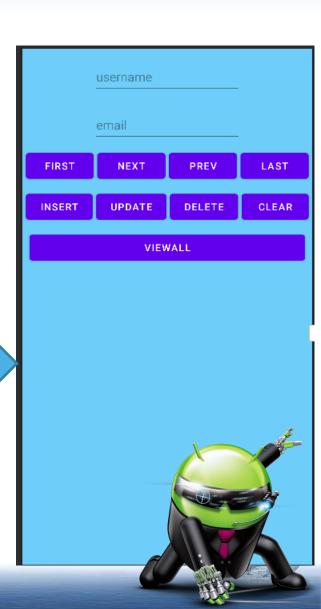
android:id="@+id/lvFull"

android:layout_width="match_parent"

android:layout height="match_parent"

android:visibilitv="gone" />

Searchview và lvFull sẽ ẩn





Tạo Class MyHelper

```
    ✓ ■ java
    ✓ ■ com.tuhoc.bai20_sqlite_final_crud
    ☑ MainActivity
    ☑ MyHelper
```

```
class MyHelper(context: Context) :SQLiteOpenHelper(context, name: "TUHOCDB", factory: null, version: 1) {
    //ctrl + i
    override fun onCreate(db: SQLiteDatabase?) {
        //tao table , column
        db?.execSQL(sql: "CREATE TABLE TUHOC(_id integer primary key autoincrement, user TEXT, email TEXT)")
        //thêm data vào cơ sở dữ liệu
        db?.execSQL(sql: "Insert into TUHOC(user, email) values ('mot', 'mot@gmail.com')")
        db?.execSQL(sql: "Insert into TUHOC(user, email) values ('hai', 'hai@gmail.com')")
        db?.execSQL(sql: "Insert into TUHOC(user, email) values ('ba', 'ba@gmail.com')")
        db?.execSQL(sql: "Insert into TUHOC(user, email) values ('tuhoc.cc', 'tuhoc.cc@gmail.com')")
    }

override fun onUpgrade(db: SQLiteDatabase?, oldVersion: Int, newVersion: Int) {
        TODO( reason: "Not yet implemented")
}
```



```
class MainActivity : AppCompatActivity() {
    lateinit var db: SQLiteDatabase
    lateinit var rs : Cursor
    lateinit var <u>adapter</u>: SimpleCursorAdapter
    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        setContentView(R.layout.activity_main)
        var helper = MyHelper(applicationContext)
        db = helper.readableDatabase
        <u>rs</u> = <u>db</u>.rawQuery( sql: "SELECT * FROM TUHOC LIMIT 20", selectionArgs: null)
        //sql : String chuỗi câu lệnh SQL
        //String[] selectionArgs: Chọn lọc dữ liệu với điều kiện mảng
        //1. đưa thử dữ liệu của dòng đầu tiên trong db lên edtuser và edtEmail
        if (rs.moveToLast()){
            edtUser.setText(rs.getString(columnIndex: 1))
            edtEmail.setText(rs.getString(columnIndex: 2))
```

```
//2.code cho button first
btnFirst.setOnClickListener { it: View!
    if (rs.moveToFirst()){
        edtUser.setText(<u>rs</u>.getString(columnIndex: 1))
        edtEmail.setText(rs.getString(columnIndex: 2))
    else
        Toast.makeText(applicationContext, text: "No data found", Toast.LENGTH_SHORT).show()
//3.code cho button next
btnNext.setOnClickListener { it: View!
    if (rs.moveToNext()){
        edtUser.setText(rs.getString(columnIndex: 1))
        edtEmail.setText(rs.getString(columnIndex: 2))
    else if (rs.moveToFirst()){
        edtUser.setText(rs.getString(columnIndex: 1))
        edtEmail.setText(rs.getString(columnIndex: 2))
    else
        Toast.makeText(applicationContext, text: "No data found", Toast.LENGTH_SHORT
```

```
//4.code cho prev
btnPrev.setOnClickListener { it: View!
    if (rs.moveToPrevious()){
        edtUser.setText(rs.getString(columnIndex: 1))
        edtEmail.setText(rs.getString(columnIndex: 2))
    else if (rs.moveToLast()){
        edtUser.setText(<u>rs</u>.getString( columnIndex: 1))
        edtEmail.setText(rs.getString(columnIndex: 2))
    else
        Toast.makeText(applicationContext, text: "No data found", Toast.LENGTH_SHORT).show()
 //5.code cho button last
btnLast.setOnClickListener { it: View!
    if (rs.moveToLast()){
        edtUser.setText(rs.getString(columnIndex: 1))
        edtEmail.setText(rs.getString(columnIndex: 2))
    else
        Toast.makeText(applicationContext, text: "No data found", Toast.LENGTH_SHORT).show,
```



```
//6. code phần lyFull
adapter = SimpleCursorAdapter(
    applicationContext,android.R.layout.simple_expandable_list_item_2,rs,
    arrayOf("user", "email"), intArrayOf(android.R.id.text1, android.R.id.text2), flags: 0
lvFull.adapter = adapter
btnViewAll.setOnClickListener { it: View!
    searchView.visibility = View.VISIBLE
    lvFull.visibility = View.VISIBLE
    adapter.notifyDataSetChanged()
    searchView.queryHint ="Tim kiếm trong ${rs.count} bản ghi"
searchView.setOnQueryTextListener(object : SearchView.OnQueryTextListener{
    //ctrl + i
    override fun onQueryTextSubmit(query: String?): Boolean {
        return false
    override fun onQueryTextChange(newText: String?): Boolean {
        rs = db.rawQuery(sql: "SELECT * FROM TUHOC WHERE user LIKE '%${newText}' or email LIKE '%${newText}'
             selectionArgs: null)
        adapter.changeCursor(rs)
        return true
```



```
//8. code cho nút insert
btnInsert.setOnClickListener { it: View!
    var cv = ContentValues()
    cv.put("user", edtUser.text.toString())
    cv.put("email", edtEmail.text.toString())
    db.insert( table: "TUHOC", nullColumnHack: null, cv)
    rs.<del>requery</del>()
    adapter.notifyDataSetChanged()
    var ad = AlertDialog.Builder( context: this)
    ad.setTitle("Add record")
    ad.setMessage("Add thành công")
    ad.setPositiveButton(text: "OK", DialogInterface.OnClickListener { dialog, which ->
        edtUser.setText("")
        edtEmail.setText("")
        edtUser.requestFocus()
    })
    ad.show()
```



```
//9. code cho nút update
btnUpdate.setOnClickListener { it: View!
    var cv = ContentValues()
    cv.put("user", edtUser.text.toString())
    cv.put("email", edtEmail.text.toString())
    db.update( table: "TUHOC",cv, whereClause: "_id=?", arrayOf(rs.getString( columnIndex: 0)))
    rs.requery()
    adapter.notifyDataSetChanged()
    var ad = AlertDialog.Builder( context: this)
    ad.setTitle("Update record")
    ad.setMessage("Update thanh cong")
    ad.setPositiveButton(text: "OK", DialogInterface.OnClickListener { dialog, which ->
        edtUser.setText("")
        edtEmail.setText("")
        edtUser.requestFocus()
    })
    ad.show()
```

```
//10. code nút clear
btnClear.setOnClickListener { it: View!
    edtUser.setText("")
    edtEmail.setText("")
    edtUser.requestFocus()
//11.code delete
btnDelete.setOnClickListener { it: View!
    db.delete( table: "TUHOC", whereClause: "_id=?", arrayOf(rs.getString( columnIndex: 0)))
    rs. requery()
    adapter.notifyDataSetChanged()
    //thông báo
    var ad = AlertDialog.Builder( context: this)
    ad.setTitle("Update record")
    ad.setMessage("Update thanh cong")
    ad.setPositiveButton(text: "OK", DialogInterface.OnClickListener { dialog, which ->
        if (rs.moveToFirst()){
            edtUser.setText("")
            edtEmail.setText("")
            edtUser.requestFocus()
        else
            edtUser.setText("No data found")
            edtEmail.setText("No data found")
    ad.show()
```

```
//đăng ký sử dụng context menu cho listview lvFull
    registerForContextMenu(lvFull)
override fun onCreateContextMenu(
    menu: ContextMenu?,
    v: View?,
    menuInfo: ContextMenu.ContextMenuInfo?
    super.onCreateContextMenu(menu, v, menuInfo)
    menu?.add( groupId: 100, itemId: 11, order: 1, title: "DELETE")
    menu?.setHeaderTitle("Removing data")
override fun onContextItemSelected(item: MenuItem): Boolean {
    if (item.itemId==11)
        //Toast.makeText(applicationContext,"Cick lên item trên menu",Toast.LENGTH_SHORT).show()
        db.delete( table: "TUHOC", whereClause: "_id=?", arrayOf(rs.getString( columnIndex: 0)))
        rs.requery()
        adapter.notifyDataSetChanged()
        searchView.queryHint ="Tim kiếm trong ${rs.count} bản ghi"
    return super.onContextItemSelected(item)
```