

## Insert and select Operation

### MyHelper.java

```
public class MyHelper extends SQLiteOpenHelper {
    public MyHelper(Activity context){
        //activity, db_name, cursor, version
        super(context, "bcadb", null, 1);
    }
    @Override
    public void onCreate(SQLiteDatabase db) {
        String sql="CREATE TABLE student(sid INT PRIMARY KEY, name
TEXT, address TEXT)";
        db.execSQL(sql);
    }

    @Override
    public void onUpgrade(SQLiteDatabase db, int i, int i1) {}

    public void insert_update_delete(String sql){
        SQLiteDatabase db=this.getWritableDatabase();
        db.execSQL(sql);
    }

    public Cursor selectData(String sql){
        SQLiteDatabase db=this.getReadableDatabase();
        /*String sql="SELECT * FROM student where sid=?";
        db.rawQuery(sql,new String[]{"101"});*/
        Cursor cursor=db.rawQuery(sql,null);
        return cursor;
    }
}
```

### myactivity.xml

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout
xmlns:android="http://schemas.android.com/apk/res/android"
    android:orientation="vertical"
    android:layout_width="match_parent"
    android:layout_height="match_parent">

    <EditText
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:hint="Enter Sid"
        android:layout_margin="10dp"
        android:id="@+id/edtSid"
    />

    <EditText
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:hint="Enter Name"
```

```

        android:layout_margin="10dp"
        android:id="@+id/edtName"
    />

    <EditText
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:hint="Enter Address"
        android:layout_margin="10dp"
        android:id="@+id/edtAddress"
    />

    <Button
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="Insert"
        android:layout_margin="10dp"
        android:id="@+id/btnInsert"
    />

    <Button
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="Select"
        android:layout_margin="10dp"
        android:id="@+id/btnSelect"
    />

    <Button
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="Update"
        android:layout_margin="10dp"
        android:id="@+id/btnUpdate"
    />

    <Button
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="Delete"
        android:layout_margin="10dp"
        android:id="@+id/btnDelete"
    />

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Result"
        android:layout_margin="10dp"
        android:textSize="20sp"
        android:id="@+id/txtResult"
    />

</LinearLayout>

```

## MyActivity.java

```
public class MyActivity extends Activity {
    EditText edtSid, edtName, edtAddress;
    Button btnInsert, btnSelect, btnUpdate, btnDelete;
    TextView txtRes;
    MyHelper helper;
    @Override
    protected void onCreate(Bundle b) {
        super.onCreate(b);
        setContentView(R.layout.myactivity);
        helper=new MyHelper(this);

        edtSid=findViewById(R.id.edtSid);
        edtName=findViewById(R.id.edtName);
        edtAddress=findViewById(R.id.edtAddress);
        btnInsert=findViewById(R.id.btnInsert);
        btnSelect=findViewById(R.id.btnSelect);
        txtRes=findViewById(R.id.txtResult);
        btnUpdate=findViewById(R.id.btnUpdate);
        btnDelete=findViewById(R.id.btnDelete);

        btnInsert.setOnClickListener(view->{
            int
sid=Integer.parseInt(edtSid.getText().toString());
            String name=edtName.getText().toString();
            String address=edtAddress.getText().toString();
            String sql="INSERT INTO student(sid,name,address)
VALUES ('"+sid+"', '"+name+"', '"+address+"')";
            helper.insert_update_delete(sql);
            Toast.makeText(this, "Inserted Successfully!",
Toast.LENGTH_SHORT).show();
        });

        btnUpdate.setOnClickListener(view->{
            int
sid=Integer.parseInt(edtSid.getText().toString());
            String name=edtName.getText().toString();
            String address=edtAddress.getText().toString();
            String sql="UPDATE student SET name='"+name+"',
address='"+address+"' WHERE sid='"+sid+"'";
            helper.insert_update_delete(sql);
            Toast.makeText(this, "Updated Successfully!",
Toast.LENGTH_SHORT).show();
        });

        btnDelete.setOnClickListener(view->{
            int
sid=Integer.parseInt(edtSid.getText().toString());
            String sql="DELETE FROM student WHERE sid='"+sid+"'";
            helper.insert_update_delete(sql);
            Toast.makeText(this, "Deleted Successfully!",
Toast.LENGTH_SHORT).show();
        });
    }
}
```

```

    });

    btnSelect.setOnClickListener(view->{
        String sql="SELECT * FROM student";
        Cursor cursor=helper.selectData(sql);
        String res="";
        while(cursor.moveToNext()){
            int sid=cursor.getInt(0);
            String name=cursor.getString(1);
            String address=cursor.getString(2);
            res+=sid+"\t"+name+"\t"+address+"\n";
        }
        txtRes.setText(res);
    });
}
}

```

### Output:

Enter Sid

Enter Name

Enter Address

INSERT

SELECT

UPDATE

DELETE

Result