2. Create database using SQLite and perform INSERT and SELECT
3 Perform UPDATE and DELETE on SQLite database

```java
package com.example.dbconnection;

import androidx.appcompat.app.AppCompatActivity;

import android.database.Cursor;
import android.database.sqlite.SQLiteDatabase;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.Toast;

public class MainActivity extends AppCompatActivity {

    EditText id,name,sal,dob;
    Button ins,srch,upd,clr,del;
    SQLiteDatabase db;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        id=(EditText) findViewById(R.id.etid);
        name=(EditText) findViewById(R.id.etname);
        sal=(EditText) findViewById(R.id.etsal);
        dob=(EditText) findViewById(R.id.etdob);
        ins=(Button)findViewById(R.id.btins);
        srch=(Button)findViewById(R.id.btsch);
        upd=(Button)findViewById(R.id.btup);
        clr=(Button)findViewById(R.id.btclr);
        del=(Button)findViewById(R.id.btdel);

        try {
            db = openOrCreateDatabase("empdb", MODE_PRIVATE, null);
            db.execSQL("Create table employee(id integer primary key,name
Text,sal Number,dob Date)");
        } catch (Exception e){    }

        ins.setOnClickListener(new View.OnClickListener(){
            @Override
            public void onClick(View v) {
                try {
```

```java
                db.execSQL("insert into employee values(" +
                        id.getText().toString() + ",'" +
name.getText().toString() + "'," +
                        sal.getText().toString() + ",'" +
dob.getText().toString() + "')");
                Toast.makeText(getApplicationContext(),"Record Inserted
Successfully",Toast.LENGTH_SHORT).show();

            }catch(Exception e){
                Toast.makeText(getApplicationContext(),"Error in
Data",Toast.LENGTH_SHORT).show();}


        }
    });

    srch.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View v) {
            String x=id.getText().toString();
            Cursor c=db.rawQuery("select * from employee where
id="+x,null);
            if(c.getCount()==0){
                Toast.makeText(getApplicationContext(),"No such
record",Toast.LENGTH_SHORT).show();
                clr.callOnClick();
                id.setText(x);
            }
            else{
                c.moveToFirst();
                clr.callOnClick();
                id.setText(x);
                name.setText(c.getString(1));
                sal.setText(c.getString(2));
                dob.setText(c.getString(3));
            }
        }
    });

    del.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View v) {
            db.execSQL("delete from employee where
id="+id.getText().toString());
            Toast.makeText(getApplicationContext(),"Record Deleted
Successfully",Toast.LENGTH_SHORT).show();
        }
    });
```

```java
        upd.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                db.execSQL("update employee set
name='"+name.getText().toString()+"' ,sal="+sal.getText().toString()+" ,
dob='"+dob.getText().toString()+"' where id="+id.getText());

                    Toast.makeText(getApplicationContext(),"Record updated
Successfully",Toast.LENGTH_SHORT).show();
            }
        });

        clr.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                id.setText("");
                name.setText("");
                sal.setText("");
                dob.setText("");
                id.setText(""+getNextId());
            }
        });
        clr.callOnClick();

    }
    public int getNextId() {
        Cursor c = db.rawQuery("select max(id) as mid from employee ", null);
        c.moveToFirst();
        if (c.getString(0) == null)
            return 1;
        else {
            int x = Integer.parseInt(c.getString(0));
            return x + 1;
        }
    }

    protected void onDestroy() {
        db.close();
        super.onDestroy();
    }

}



Xml page:


<?xml version="1.0" encoding="utf-8"?>
```

```xml
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".MainActivity">

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginTop="40dp"
        android:text="Enter ID:"
        android:textStyle="italic"
        android:textSize="24sp"
        android:id="@+id/tvid"/>

    <EditText
        android:id="@+id/etid"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_toRightOf="@+id/tvid"
        android:layout_marginTop="40dp"
        android:inputType="number"
        android:textStyle="italic"
        android:textSize="24sp"
        android:ems="10"
        android:text="" />

    <TextView
        android:id="@+id/tvname"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginTop="10dp"
        android:layout_below="@+id/tvid"
        android:text="Enter Name:"
        android:textStyle="italic"
        android:textSize="24sp"
        />

    <EditText
        android:id="@+id/etname"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_toRightOf="@+id/tvname"
        android:layout_marginTop="10dp"
        android:layout_below="@+id/tvid"
        android:inputType="text"
        android:textStyle="italic"
        android:textSize="24sp"
```

```xml
        android:ems="10"
        android:text="" />

    <TextView
        android:id="@+id/tvsal"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginTop="10dp"
        android:layout_below="@+id/tvname"
        android:text="Enter salary:"
        android:textStyle="italic"
        android:textSize="24sp"
        />

    <EditText
        android:id="@+id/etsal"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_toRightOf="@+id/tvsal"
        android:layout_marginTop="10dp"
        android:layout_below="@+id/tvname"
        android:inputType="number"
        android:textStyle="italic"
        android:textSize="24sp"
        android:ems="10"
        android:text="" />

    <TextView
        android:id="@+id/tvdob"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginTop="10dp"
        android:text="Enter Date of birth:"
        android:textStyle="italic"
        android:layout_below="@+id/tvsal"
        android:textSize="24sp"
        />

    <EditText
        android:id="@+id/etdob"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_below="@+id/tvsal"
        android:layout_marginTop="10dp"
        android:layout_toRightOf="@+id/tvdob"
        android:ems="10"
        android:inputType="date"
        android:text=""
        android:textSize="24sp"
```

```xml
        android:textStyle="italic" />

    <Button
        android:id="@+id/btins"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginTop="15dp"
        android:layout_below="@+id/tvdob"
        android:text="INSERT" />

    <Button
        android:id="@+id/btup"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_below="@+id/tvdob"
        android:layout_marginLeft="10dp"
        android:layout_marginTop="15dp"
        android:layout_toRightOf="@+id/btins"
        android:text="UPDATE" />
    <Button
        android:id="@+id/btdel"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginTop="15dp"
        android:layout_below="@+id/btins"
        android:text="DELETE" />

    <Button
        android:id="@+id/btclr"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginTop="15dp"
        android:layout_marginLeft="10dp"
        android:layout_below="@+id/btup"
        android:layout_toRightOf="@+id/btdel"
        android:text="CLEAR" />

    <Button
        android:id="@+id/btsch"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginLeft="10dp"
        android:layout_marginTop="215dp"
        android:layout_toRightOf="@+id/btup"
        android:text="search" />

</RelativeLayout>
```

dbconnection

Enter ID: *1*

Enter Name: *asrasacnu*

Enter salary: *4645*

Enter Date of birth: *1/1/1200*

INSERT   UPDATE   SEARCH

DELETE   CLEAR

Record updated Successfully

Screen 1 (top):

dbconnection

Enter ID: 4
Enter Name: ecfg
Enter salary: 46
Enter Date of birth: 9/08/99

INSERT   UPDATE   SEARCH

DELETE   CLEAR

Record Inserted Successfully

Screen 2 (bottom):

dbconnection

Enter ID: 2
Enter Name: meenu
Enter salary: 78945
Enter Date of birth: 02/02/2001

INSERT   UPDATE   SEARCH

DELETE   CLEAR

Record Deleted Successfully