XML code:

*<?*xml version="1.0" encoding="utf-8"*?>*<GridLayout 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"  
 android:columnCount="2"  
 android:rowCount="6">  
  
 <LinearLayout  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:orientation="vertical"  
 android:layout\_marginTop="10dp"  
 android:layout\_marginLeft="30dp">  
  
 <TextView  
 android:id="@+id/pno"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Pno :"  
 android:textSize="20sp"/>  
 <TextView  
 android:id="@+id/pname"  
 android:layout\_marginTop="15dp"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Pname :"  
 android:textSize="20sp"  
 />  
 <TextView  
 android:id="@+id/ptype"  
 android:layout\_marginTop="15dp"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Ptype :"  
 android:textSize="20sp"/>  
 <TextView  
 android:id="@+id/duration"  
 android:layout\_marginTop="15dp"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Duration :"  
 android:textSize="20sp"/>  
 </LinearLayout>  
  
  
 <LinearLayout  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:orientation="vertical">  
  
 <EditText  
 android:id="@+id/ed\_pno"  
 android:layout\_width="200dp"  
 android:layout\_height="wrap\_content"  
 android:hint="Enter project number"  
 android:textSize="15sp"/>  
 <EditText  
 android:id="@+id/ed\_pname"  
 android:layout\_width="200dp"  
 android:layout\_height="wrap\_content"  
 android:hint="Enter project name"  
 android:textSize="15sp"/>  
 <EditText  
 android:id="@+id/ed\_type"  
 android:layout\_width="200dp"  
 android:layout\_height="wrap\_content"  
 android:hint="Enter project type"  
 android:textSize="15sp"/>  
 <EditText  
 android:id="@+id/ed\_duration"  
 android:layout\_width="200dp"  
 android:layout\_height="wrap\_content"  
 android:hint="Enter project duration"  
 android:textSize="15sp"/>  
  
 </LinearLayout>  
  
 <LinearLayout  
 android:layout\_height="wrap\_content"  
 android:layout\_width="wrap\_content"  
 android:layout\_marginLeft="80dp"  
 android:orientation="vertical"  
 android:layout\_marginTop="40dp">  
 <Button  
 android:id="@+id/addbtn"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="50dp"  
 android:text="ADD"  
 android:textSize="10sp"/>  
  
  
 </LinearLayout>  
 <LinearLayout  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="40dp"  
 android:layout\_marginLeft="110dp">  
 <Button  
 android:id="@+id/viewbtn"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="50dp"  
 android:text="VIEW"  
 android:textSize="10sp"/>  
  
 </LinearLayout>  
  
 <LinearLayout  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:orientation="vertical"  
 android:layout\_marginTop="10dp"  
 android:layout\_marginLeft="30dp">  
  
 <TextView  
 android:id="@+id/eid"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="EID :"  
 android:textSize="20sp"/>  
 <TextView  
 android:id="@+id/ename"  
 android:layout\_marginTop="15dp"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Ename :"  
 android:textSize="20sp"  
 />  
 <TextView  
 android:id="@+id/qualification"  
 android:layout\_marginTop="15dp"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="QUALIFICATION :"  
 android:textSize="20sp"/>  
 <TextView  
 android:id="@+id/joindate"  
 android:layout\_marginTop="15dp"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="JOIN DATE :"  
 android:textSize="20sp"/>  
 </LinearLayout>  
  
  
 <LinearLayout  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:orientation="vertical">  
  
 <EditText  
 android:id="@+id/ed\_eid"  
 android:layout\_width="200dp"  
 android:layout\_height="wrap\_content"  
 android:hint="Enter employee number"  
 android:textSize="15sp"/>  
 <EditText  
 android:id="@+id/ed\_ename"  
 android:layout\_width="200dp"  
 android:layout\_height="wrap\_content"  
 android:hint="Enter employee name"  
 android:textSize="15sp"/>  
 <EditText  
 android:id="@+id/ed\_qualification"  
 android:layout\_width="200dp"  
 android:layout\_height="wrap\_content"  
 android:hint="Enter qualification"  
 android:textSize="15sp"/>  
 <EditText  
 android:id="@+id/ed\_joindate"  
 android:layout\_width="200dp"  
 android:layout\_height="wrap\_content"  
 android:hint="Enter join date"  
 android:textSize="15sp"/>  
 </LinearLayout>  
  
  
 <LinearLayout>  
 <Button  
 android:layout\_marginTop="20dp"  
 android:layout\_marginLeft="80dp"  
 android:id="@+id/addemp"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="ADD"/>  
 </LinearLayout>  
 <LinearLayout>  
  
 <Button  
 android:layout\_marginTop="20dp"  
 android:layout\_marginLeft="80dp"  
 android:id="@+id/viewemp"  
 android:layout\_width="wrap\_content"  
 android:text="view"  
 android:layout\_height="wrap\_content"/>  
 </LinearLayout>  
  
 <LinearLayout>  
 <Button  
 android:id="@+id/thirdtableadd"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginLeft="80dp"  
 android:layout\_marginTop="20dp"  
 android:text="Insert"/>  
 </LinearLayout>  
 <LinearLayout>  
 <Button  
 android:layout\_marginTop="20dp"  
 android:layout\_marginLeft="80dp"  
 android:id="@+id/thirdtableview"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="View"/>  
 </LinearLayout>  
  
 <LinearLayout  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="40dp"  
 android:layout\_marginLeft="30dp"  
 android:orientation="horizontal">  
  
 <TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Employee search :"  
 android:textSize="18sp"  
 />  
 </LinearLayout>  
  
 <LinearLayout  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginLeft="0dp"  
 android:layout\_marginTop="20dp">  
  
 <EditText  
 android:id="@+id/ed\_pesearch"  
 android:layout\_width="180dp"  
 android:layout\_height="wrap\_content"  
 android:hint="Enter project number"/>  
 </LinearLayout>  
  
 <Button  
 android:id="@+id/pseasrch"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="10dp"  
 android:layout\_marginLeft="100dp"  
 android:text="Search"/>  
</GridLayout>

Java code:

package com.example.myapplication;  
import androidx.appcompat.app.AppCompatActivity;  
import android.annotation.SuppressLint;  
import android.app.AlertDialog;  
import android.content.Context;  
import android.content.DialogInterface;  
import android.database.Cursor;  
import android.database.sqlite.SQLiteDatabase;  
import android.view.View.OnClickListener;  
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 implements OnClickListener {  
 SQLiteDatabase db;  
 EditText pno,pname,ptype,duration,eid,ename,qualification,joindate,psearch;  
 Button b1,b2,b3,b4,b5,b6,b7;  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
 pno = (EditText) findViewById(R.id.*ed\_pno*);  
 pname = (EditText) findViewById(R.id.*ed\_pname*);  
 ptype = (EditText) findViewById(R.id.*ed\_type*);  
 duration = (EditText) findViewById(R.id.*ed\_duration*);  
 eid = (EditText) findViewById(R.id.*ed\_eid*);  
 ename = (EditText) findViewById(R.id.*ed\_ename*);  
 qualification = (EditText) findViewById(R.id.*ed\_qualification*);  
 joindate = (EditText) findViewById(R.id.*ed\_joindate*);  
 psearch = (EditText) findViewById(R.id.*ed\_pesearch*);  
 b1 = (Button) findViewById(R.id.*addbtn*);  
 b2 = (Button) findViewById(R.id.*viewbtn*);  
 b3 = (Button) findViewById(R.id.*addemp*);  
 b4 = (Button) findViewById(R.id.*viewemp*);  
 b5 = (Button) findViewById(R.id.*pseasrch*);  
 b6 = (Button) findViewById(R.id.*thirdtableadd*);  
 b7 = (Button) findViewById(R.id.*thirdtableview*);  
 db = openOrCreateDatabase("assignment2", Context.*MODE\_PRIVATE*, null);  
 db.execSQL("CREATE TABLE IF NOT EXISTS project(pno number primary key, pname VARCHAR, ptype VARCHAR,duration number);");  
 db.execSQL("CREATE TABLE IF NOT EXISTS employee(eid number primary key, ename VARCHAR, qualification VARCHAR,joindate number);");  
 *//db.execSQL("CREATE TABLE IF NOT EXISTS pro\_emp(p\_no number foreign key references project(pno),e\_id number foreign key references employee(eid));");* db.execSQL("CREATE TABLE IF NOT EXISTS pro\_emp(p\_no number REFERENCES project(pno), e\_id number REFERENCES employee(eid))");  
 b1.setOnClickListener(this);  
 b2.setOnClickListener(this);  
 b3.setOnClickListener(this);  
 b4.setOnClickListener(this);  
 b5.setOnClickListener(this);  
 b6.setOnClickListener(this);  
 b7.setOnClickListener(this);  
 }  
 public void showMessage(String title,String message)  
 {  
 AlertDialog.Builder builder=new AlertDialog.Builder(this);  
 builder.setCancelable(true); builder.setTitle(title);  
 builder.setMessage(message);  
 builder.show();  
 }*//show* public void clearText()  
 {  
 pno.setText("");  
 pname.setText("");  
 ptype.setText("");  
 duration.setText("");  
 *//e\_pid.setText("");  
 //e\_jdate.setText("");  
 //e\_quali.setText("");  
 //e\_name.setText("");* pno.requestFocus();  
 }*//clear* public void onClick(View view){  
 if (view == b1) {  
 if (pno.getText().toString().trim().length() == 0 || pname.getText().toString().trim().length() == 0 || ptype.getText().toString().trim().length() == 0||duration.getText().toString().trim().length()==0) {  
 Toast.*makeText*(this, "\"please enter the values", Toast.*LENGTH\_SHORT*).show();  
 return;  
 }  
 db.execSQL("INSERT INTO project VALUES('" + pno.getText() + "','" + pname.getText() + "','" + ptype.getText() + "','" + duration.getText() + "');");  
 *//db.execSQL("INSERT INTO emp VALUES('" + e\_id.getText() + "','" + e\_name.getText() + "','" + e\_quali.getText() + "','" + e\_jdate.getText() + "');");  
 //db.execSQL("INSERT INTO pro\_emp VALUES('" + e\_pid.getText() + "','" + e\_id.getText() + "');");* showMessage("Success", "Record added");  
 *//11clearText();* }*//b1* if(view==b2)  
 {  
 Cursor c = db.rawQuery("SELECT \* FROM project",null );  
  
 if(c.getCount() == 0){  
 Toast.*makeText*(MainActivity.this," No Records found",Toast.*LENGTH\_SHORT*).show();  
 return;  
 }  
 StringBuilder b = new StringBuilder();  
 while(c.moveToNext()){  
 b.append("Project no :").append(c.getString(0)).append("\n");  
 b.append("Project name :").append(c.getString(1)).append("\n");  
 b.append("Project type:").append(c.getString(2)).append("\n");  
 b.append("Duration :").append(c.getString(3)).append("\n");  
 }  
 Toast.*makeText*(MainActivity.this, b.toString(), Toast.*LENGTH\_LONG*).show();  
  
 }*////b2* if(view==b3)  
 {  
 try {  
 if (eid.getText().toString().trim().length() == 0 || ename.getText().toString().trim().length() == 0 || qualification.getText().toString().trim().length() == 0 || joindate.getText().toString().trim().length() == 0) {  
 Toast.*makeText*(MainActivity.this, "Some fields are empty!!", Toast.*LENGTH\_SHORT*).show();  
 return;  
 }  
 db.execSQL("INSERT INTO employee VALUES('" + eid.getText() + "','" + ename.getText() + "','" + qualification.getText()+ "','" + joindate.getText()+ "');");  
 Toast.*makeText*(MainActivity.this, "Record Inserted successfully!!", Toast.*LENGTH\_SHORT*).show();  
 }  
 catch (Exception e){  
 Toast.*makeText*(MainActivity.this, e.toString(), Toast.*LENGTH\_SHORT*).show();  
 return;  
 }  
  
 }*//b3* if(view==b4)  
 {  
 Cursor c = db.rawQuery("SELECT \* FROM employee",null );  
  
 if(c.getCount() == 0){  
 Toast.*makeText*(MainActivity.this," No Records found",Toast.*LENGTH\_SHORT*).show();  
 return;  
 }  
 StringBuilder b = new StringBuilder();  
 while(c.moveToNext()){  
 b.append("Employee id:").append(c.getString(0)).append("\n");  
 b.append("Employee name :").append(c.getString(1)).append("\n");  
 b.append("Qualification:").append(c.getString(2)).append("\n");  
 b.append("Join Date:").append(c.getString(3)).append("\n");  
 }  
 Toast.*makeText*(MainActivity.this, b.toString(), Toast.*LENGTH\_LONG*).show();  
  
  
 }*//b4* if(view==b5)  
 {  
 Cursor c=db.rawQuery("SELECT eid,ename FROM employee,project,pro\_emp where employee.eid=pro\_emp.e\_id and project.pno=pro\_emp.p\_no and pno='"+psearch.getText()+"'",null);  
 if(c.getCount()==0)  
 {  
 showMessage("Error","No Records Found");  
 return;  
 }*//getcount* StringBuffer b=new StringBuffer();  
 while(c.moveToNext())  
 {  
 b.append("e\_id:"+c.getString(0)+"\n");  
 b.append("e\_name:"+c.getString(1)+"\n");  
 ;  
 }*//while* showMessage("Employee Details",b.toString());  
  
 }*//b5* if(view==b6) {  
 try {  
 db.execSQL("INSERT into pro\_emp values('" + pno.getText() + "','" + eid.getText()+ "');");  
 Toast.*makeText*(MainActivity.this, "Record inserted successfully!!", Toast.*LENGTH\_SHORT*).show();  
 } catch (Exception e) {  
 Toast.*makeText*(MainActivity.this, e.toString(), Toast.*LENGTH\_SHORT*).show();  
  
 }  
 }*//b6* if(view==b7)  
 {  
 Cursor c = db.rawQuery("SELECT \* FROM pro\_emp",null );  
  
 if(c.getCount() == 0){  
 Toast.*makeText*(MainActivity.this," No Records found",Toast.*LENGTH\_SHORT*).show();  
 return;  
 }  
 StringBuilder b = new StringBuilder();  
 while(c.moveToNext()){  
 b.append("Project no :").append(c.getString(0)).append("\n");  
 b.append("Employee id :").append(c.getString(1)).append("\n");  
 }  
 Toast.*makeText*(MainActivity.this, b.toString(), Toast.*LENGTH\_LONG*).show();  
  
 }  
  
 }*//click*}*//class*