Practical-13 Database Communication

Activity main.xml file

xml version="1.0" encoding="utf-8"

<LinearLayout

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"

android:orientation="vertical"

tools context" MainActivity">

<TextView

android:id="@+id/textView"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:text="Username"/>

<EditText

android:id="@+id/username"

android:layout\_width="match\_parent" android:layout\_height="wrap\_content"

android:ems="10"

android:input Type="textPersonName"

android:hint "Enter your Name here" />

<TextView android:id="@+id/textView2"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:text="Password" />

<EditText

android:id="@+id/password"

android:layout\_width="match\_parent"

android:layout height="wrap\_content"

android:ems="10"

android:inputType="textPersonName"

android:hint "Enter your Password here" />

<Button

android:id="@+id/login"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:onClick=”login\_fun”

android:text="Login"/>

<Button

android:id="@+id/drop"

android: onClick="login\_fun"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:onClick = " drop-fun"

android:text="Drop"/>

<Button

android:id="@+id/register"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:onClick = " register-fun"

android:text="Register" />

</LinearLayout>

**Mainactivity.java→**

package com.example.db21;

import androidx.appcompat.app.AppCompatActivity:

import android.content.Context;

import android.database.";

import android.database.sqlite.\*:

import android.os.Bundle:

import android.view.View;

import android.widget.\*:

class MyDB extends SQLiteOpenHelper{

MyDB(Context c){

super(c, "logindb", null, 1);

}

@Override

public void onCreate(SQLiteDatabase db){

String str create table login(username text, password test)";

db.execSQL (str);

}

@Override

public void onUpgrade(SQLiteDatabase db,int oldVersion,int new Version){

String dr=”drop table if exists login";

db.execSQL(dr);

onCreate(db);}}

public class MainActivity extends AppCompatActivity{

MyDB mdb:

EditText eusername.epassword;

Button blogin,bdrop.bregister;

SQLiteDatabase db;

@Override

protected void onCreate(Bundle savedInstanceState){

super.onCreate(savedInstanceState);

setContentView(R.layout.activity main);

eusername= (EditText)findViewById(R.id.username);

epassword= (EditText)findViewById(R.id.password);

blogin =(Button) findViewById(R.id.login);

bdrop=(Button)findViewById(R.id.drop);

bregister=(Button) findViewById(R.id.register);

mdb=new MyDB(this);

public void login fun(View v){

String un=String.valueOf(eusername.getText());

String pass= String.valueOfRepassword.getText ());

Db=mdb.getReadableDatabase():

String q="select \* from login where username’"+un+ ",and password+’"+pass+”’”;

try{

Cursor c=dh.rawQuery(q.null):

if(c.getCount(0);

Toast.makeText(this, "Username or Password wrong or Liser doesn't exists". Toast.LENGTH\_LONG).show();}

Else{

while(c.moveToNext());

String uname=c.getString(0);

String passw=c.getString(1);

Toast.makeText(this. "Username:"+ uname +"\nPassword:" + passw. Toast.LENGTH LONG).showtr();

if(un.contentEquals(uname)&&pass.contentEquals(passw)){

Toast.makeText(this." Welcome User:" + un. Toast.LENGTH\_LONG).show();

c.close();

}}}}

catch(SQLiteException sqle){

sqle.printStackTrace(); }}

public void register\_fun(View v);

String un=String.valueOf(eusername.getText());

String pass-String.valueOf(epassword.getText());

Db=mdb.getWritableDatabase();

String q="insert into login values(‘"+un+"’,’"+pass+"’)";

db.execSQL(q);

Toast.makeText(getApplicationContext(), "User Registered". Toast.LENGTH\_SHORT).show();}

public void drop\_fun(View v){

db=mdb.getWritable Database();

mdb.onUpgrade(db,1,2);

Toast.makeText(getApplicationContext(), "All User Deleted". Toast.LENGTH\_SHORT).show();}