Practical:-14

* MainActivity.java

package com.example.sqlhelper;

import android.support.v7.app.AppCompatActivity;

import android.os.Bundle;

import android.view.View;

import android.widget.EditText;

public class MainActivity extends AppCompatActivity {

EditText nm, pass , updateold, updatenew, delete;

mysqlhelper helper;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

nm= (EditText) findViewById(R.id.editnm);

pass= (EditText) findViewById(R.id.editPass);

updateold= (EditText) findViewById(R.id.editText3);

updatenew= (EditText) findViewById(R.id.editText5);

delete = (EditText) findViewById(R.id.editText6);

helper = new mysqlhelper(this);

}

public void addUser(View view){

String t1 = nm.getText().toString();

String t2 = pass.getText().toString();

if(t1.isEmpty() || t2.isEmpty()){

msg.msg(getApplicationContext(),"Enter Both nm and password");

}else{

long id = helper.insertData(t1,t2);

if(id<=0){

msg.msg(getApplicationContext(),"Insertion Unsuccessful");

nm.setText("");

pass.setText("");

}else{

msg.msg(getApplicationContext(),"Insertion Successful");

nm.setText("");

pass.setText("");

}

} }

public void viewdata(View view){

String data = helper.getData();

msg.msg(this,data); }

public void update(View view){

String u1 = updateold.getText().toString();

String u2 = updatenew.getText().toString();

if(u1.isEmpty() || u2.isEmpty()){

msg.msg(getApplicationContext(),"Enter Data");

}else{

int a= helper.updateName( u1, u2);

if(a<=0){

msg.msg(getApplicationContext(),"Unsuccessful");

updateold.setText("");

updatenew.setText("");

}else{

msg.msg(getApplicationContext(),"Updated");

updateold.setText("");

updatenew.setText("");

}

} }

public void delete( View view) {

String unm = delete.getText().toString();

if(unm.isEmpty()) {

msg.msg(getApplicationContext(),"Enter Data");

}else{

int a= helper.delete(unm);

if(a<=0) {

msg.msg(getApplicationContext(),"Unsuccessful");

delete.setText(""); }

else {

msg.msg(this, "DELETED");

delete.setText(""); }

}

}

* Sqlhelper.java

package com.example.sqlhelper;

import android.content.ContentValues;

import android.content.Context;

import android.database.Cursor;

import android.database.sqlite.SQLiteDatabase;

import android.database.sqlite.SQLiteOpenHelper;

public class mysqlhelper {

myDbHelper myhelper;

public mysqlhelper(Context context){

myhelper = new myDbHelper(context);

}

public long insertData(String name, String pass){

SQLiteDatabase dbb = myhelper.getWritableDatabase();

ContentValues contentValues = new ContentValues();

contentValues.put(myDbHelper.NAME, name);

contentValues.put(myDbHelper.MyPASSWORD, pass);

long id = dbb.insert(myDbHelper.TABLE\_NAME, null , contentValues);

return id;

}

public String getData(){

SQLiteDatabase db = myhelper.getWritableDatabase();

String[] columns = {myDbHelper.UID,myDbHelper.NAME,myDbHelper.MyPASSWORD};

Cursor cursor =db.query(myDbHelper.TABLE\_NAME,columns,null,null,

null,null,null);

StringBuffer buffer= new StringBuffer();

while (cursor.moveToNext()){

int cid =cursor.getInt(cursor.getColumnIndex(myDbHelper.UID));

String name =cursor.getString(cursor.getColumnIndex(myDbHelper.NAME));

String password =cursor.getString(cursor.getColumnIndex(myDbHelper.MyPASSWORD));

buffer.append(cid+ " " + name + " " + password +" \n");

}

return buffer.toString();

}

public int delete(String uname){

SQLiteDatabase db = myhelper.getWritableDatabase();

String[] whereArgs ={uname};

int count =db.delete(myDbHelper.TABLE\_NAME ,myDbHelper.NAME+" = ?",whereArgs);

return count;

}

public int updateName(String oldName , String newName){

SQLiteDatabase db = myhelper.getWritableDatabase();

ContentValues contentValues = new ContentValues();

contentValues.put(myDbHelper.NAME,newName);

String[] whereArgs= {oldName};

int count =db.update(myDbHelper.TABLE\_NAME,contentValues, myDbHelper.NAME+" = ?",whereArgs );

return count;

}

static class myDbHelper extends SQLiteOpenHelper{

private static final String DATABASE\_NAME = "myDatabase"; // Database Name

private static final String TABLE\_NAME = "myTable"; // Table Name

private static final int DATABASE\_Version = 1; // Database Version

private static final String UID="\_id"; // Column I (Primary Key)

private static final String NAME = "Name"; //Column II

private static final String MyPASSWORD= "Password"; // Column III

private static final String CREATE\_TABLE = "CREATE TABLE "+TABLE\_NAME+

" ("+UID+" INTEGER PRIMARY KEY AUTOINCREMENT, "+NAME+" VARCHAR(255) ,"+ MyPASSWORD+" VARCHAR(225));";

private static final String DROP\_TABLE ="DROP TABLE IF EXISTS "+TABLE\_NAME;

private Context context;

public myDbHelper(Context context) {

super(context, DATABASE\_NAME, null, DATABASE\_Version);

this.context=context;

}

public void onCreate(SQLiteDatabase db) {

try {

db.execSQL(CREATE\_TABLE);

} catch (Exception e) {

msg.msg(context,""+e);

}

}

@Override

public void onUpgrade(SQLiteDatabase db, int oldVersion, int newVersion) {

try {

msg.msg(context,"OnUpgrade");

db.execSQL(DROP\_TABLE);

onCreate(db);

}catch (Exception e) {

msg.msg(context,""+e);

}

}

}

}

* Msg.java

package com.example.sqlhelper;

import android.content.Context;

import android.widget.Toast;

public class msg {

public static void msg(Context context, String message) {

Toast.makeText(context, message, Toast.LENGTH\_LONG).show();

}

}

* Activity\_main.xml

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

<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:id="@+id/activity\_main"

android:layout\_width="match\_parent"

android:layout\_height="match\_parent">

<TextView

android:text="username"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:layout\_alignParentTop="true"

android:layout\_marginTop="12dp"

android:id="@+id/textView"

android:layout\_alignParentLeft="true"

android:layout\_alignParentStart="true" />

<EditText

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:inputType="textPersonName"

android:id="@+id/editnm"

android:layout\_below="@+id/textView"

android:layout\_alignParentRight="true"

android:layout\_alignParentEnd="true"

android:hint="Enter Name" />

<TextView

android:text="password"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:layout\_marginTop="13dp"

android:id="@+id/textView2"

android:textSize="18sp"

android:layout\_below="@+id/editnm"

android:layout\_alignParentRight="true"

android:layout\_alignParentEnd="true"

android:hint="Enter Password" />

<Button

android:text="view\_data"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:id="@+id/button2"

android:textSize="18sp"

android:onClick="viewdata"

android:layout\_alignBaseline="@+id/button"

android:layout\_alignBottom="@+id/button"

android:layout\_alignRight="@+id/button4"

android:layout\_alignEnd="@+id/button4" />

<Button

android:text="add\_user"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:id="@+id/button"

android:textSize="18sp"

android:onClick="addUser"

android:layout\_marginLeft="28dp"

android:layout\_marginStart="28dp"

android:layout\_below="@+id/editPass"

android:layout\_alignParentLeft="true"

android:layout\_alignParentStart="true"

android:layout\_marginTop="23dp" />

<Button

android:text="update"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:id="@+id/button3"

android:onClick="update"

android:layout\_below="@+id/editText3"

android:layout\_alignLeft="@+id/button4"

android:layout\_alignStart="@+id/button4"

android:layout\_marginTop="13dp" />

<EditText

android:id="@+id/editText6"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_alignTop="@+id/button4"

android:layout\_alignParentStart="true"

android:layout\_alignParentLeft="true"

android:layout\_marginStart="0dp"

android:layout\_marginLeft="0dp"

android:layout\_marginTop="0dp"

android:layout\_marginEnd="0dp"

android:layout\_marginRight="0dp"

android:layout\_toStartOf="@+id/button2"

android:layout\_toLeftOf="@+id/button2"

android:ems="10"

android:freezesText="false"

android:hint="Enter Name to Delete Data"

android:inputType="textPersonName" />

<Button

android:id="@+id/button4"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_alignParentEnd="true"

android:layout\_alignParentRight="true"

android:layout\_alignParentBottom="true"

android:layout\_marginEnd="37dp"

android:layout\_marginRight="37dp"

android:layout\_marginBottom="213dp"

android:onClick="delete"

android:text="delete"

tools:ignore="RelativeOverlap" />

<EditText

android:id="@+id/editText3"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_below="@+id/button"

android:layout\_alignParentStart="true"

android:layout\_alignParentLeft="true"

android:layout\_marginStart="3dp"

android:layout\_marginLeft="3dp"

android:layout\_marginTop="56dp"

android:ems="10"

android:hint="Current Name"

android:inputType="textPersonName"

android:textSize="14sp" />

<EditText

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:inputType="textPassword"

android:ems="10"

android:layout\_marginTop="11dp"

android:id="@+id/editPass"

android:hint="Enter Password"

android:textSize="18sp"

android:layout\_below="@+id/textView2"

android:layout\_alignParentLeft="true"

android:layout\_alignParentStart="true" />

<EditText

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:inputType="textPersonName"

android:ems="10"

android:id="@+id/editText5"

android:textStyle="bold|italic"

android:textSize="14sp"

android:hint="New Name"

android:layout\_alignTop="@+id/button3"

android:layout\_alignLeft="@+id/editText3"

android:layout\_alignStart="@+id/editText3"

android:layout\_marginTop="32dp" />

</RelativeLayout>

