# SQLiteOpenHelper

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7th C2-Batch

**MainActivity.java**

package com.example.sql;

import androidx.annotation.Nullable;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;

import android.view.View;

import android.widget.Button;

import android.widget.EditText;

import android.widget.TextView;

import android.widget.Toast;

public class MainActivity extends AppCompatActivity {

Button register, delete, display, update;

EditText username, password;

TextView result;

private static final String *dbname* = "studentdb";

private static final String *tbname* = "student";

private static int *dbVersion* = 1;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.*activity\_main*);

register = findViewById(R.id.*regbtn*);

delete = findViewById(R.id.*delbtn*);

display = findViewById(R.id.*disbtn*);

update = findViewById(R.id.*updbtn*);

username = findViewById(R.id.*uname*);

password = findViewById(R.id.*upasswod*);

result = findViewById(R.id.*displayView*);

register.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) {

dbhelper dbhel = new dbhelper(MainActivity.this, *dbname*, null, *dbVersion*);

long ans = dbhel.addUser(username.getText().toString(), password.getText().toString());

if (ans == -1) {

Toast.*makeText*(MainActivity.this, "Sorry, something went wrong!", Toast.*LENGTH\_SHORT*).show();

} else {

Toast.*makeText*(MainActivity.this, "Registered!", Toast.*LENGTH\_SHORT*).show();

}

}

});

update.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) {

dbhelper dbhel = new dbhelper(MainActivity.this, *dbname*, null, *dbVersion*);

dbhel.update(username.getText().toString(), password.getText().toString());

Toast.*makeText*(MainActivity.this, "Updated!", Toast.*LENGTH\_SHORT*).show();

}

});

display.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) {

dbhelper dbhel = new dbhelper(MainActivity.this, *dbname*, null, *dbVersion*);

String res = dbhel.display();

result.setText(res);

}

});

delete.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) {

dbhelper dbhel = new dbhelper(MainActivity.this, *dbname*, null, *dbVersion*);

dbhel.delete(username.getText().toString());

Toast.*makeText*(MainActivity.this, "Deleted!", Toast.*LENGTH\_SHORT*).show();

}

});

}

}

**dbhelper.java**

package com.example.sql;

import android.content.Context;

import android.database.Cursor;

import android.database.sqlite.SQLiteDatabase;

import android.database.sqlite.SQLiteOpenHelper;

import android.content.ContentValues;

import androidx.annotation.Nullable;

public class dbhelper extends SQLiteOpenHelper {

private static final String *dbname* = "studentdb";

private static final String *tbname* = "student";

private static int *dbVersion* = 1;

dbhelper(@Nullable Context context, @Nullable String name, @Nullable SQLiteDatabase.CursorFactory factory, int version) {

super(context, name, factory, version);

}

@Override

public void onCreate(SQLiteDatabase sqLiteDatabase) {

sqLiteDatabase.execSQL("Create table "+ *tbname*+" (uname VARCHAR(10),passw VARCHAR(10))"+ ";");

}

@Override

public void onUpgrade(SQLiteDatabase sqLiteDatabase, int i, int i1) {

sqLiteDatabase.execSQL("DROP TABLE IF EXISTS "+*tbname*);

onCreate(sqLiteDatabase);

}

public long addUser(String usname,String pass)

{

SQLiteDatabase db= this.getWritableDatabase();

ContentValues cv= new ContentValues();

cv.put("uname",usname);

cv.put("passw",pass);

long result = db.insert(*tbname*,null,cv);

db.close();

return result;

}

public void update(String usname,String newpass){

SQLiteDatabase db= this.getWritableDatabase();

db.execSQL("UPDATE "+*tbname*+" SET passw='"+newpass+"'"+"WHERE uname ='"+usname+"'"+";");

db.close();

}

public void delete(String usname){

SQLiteDatabase db= this.getWritableDatabase();

db.execSQL("DELETE FROM "+*tbname*+" WHERE uname='"+usname+"';");

db.close();

}

public String display() {

SQLiteDatabase sqLiteDatabase = this.getReadableDatabase();

Cursor cursor = sqLiteDatabase.rawQuery("Select \* from " + *tbname*, null);

String finalres = "";

while (cursor.moveToNext()) {

finalres += cursor.getString(0) + " :" + cursor.getString(1);

}

return finalres;

}

}

**activity\_main.xml**

*<?*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:orientation="vertical"

android:layout\_height="match\_parent"

android:layout\_margin="20dp"

tools:context=".MainActivity"

android:background="#e9efee"

>

<TextView

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:layout\_marginVertical="30dp"

android:gravity="center"

android:text="WELCOME"

android:textSize="45dp"

android:textColor="#f38806"/>

<EditText

android:id="@+id/uname"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:layout\_marginVertical="20dp"

android:hint="Username"

android:textColor="#f38806"

android:textColorHighlight="#FF9800"

android:textColorHint="#FF9800"

android:textColorLink="#FF9800"

android:textSize="25dp" />

<EditText

android:id="@+id/upasswod"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:layout\_marginVertical="20dp"

android:hint="Password"

android:textColor="#f38806"

android:textColorHighlight="#FF9800"

android:textColorHint="#FF9800"

android:textColorLink="#FF9800"

android:textSize="25dp" />

<LinearLayout

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:orientation="horizontal">

<Button

android:id="@+id/regbtn"

android:layout\_width="170dp"

android:layout\_height="wrap\_content"

android:layout\_marginHorizontal="9dp"

android:layout\_marginVertical="20dp"

android:text="Register"

android:textColorHighlight="#e9b26e"

android:textSize="25dp"

app:backgroundTint="#CBFF9800" />

<Button

android:id="@+id/delbtn"

android:layout\_width="170dp"

android:layout\_height="wrap\_content"

android:layout\_marginHorizontal="5dp"

android:layout\_marginVertical="20dp"

android:text="delete"

android:textSize="25dp"

app:backgroundTint="#CBFF9800" />

</LinearLayout>

<LinearLayout

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:orientation="horizontal">

<Button

android:id="@+id/updbtn"

android:layout\_width="170dp"

android:layout\_height="wrap\_content"

android:layout\_marginHorizontal="9dp"

android:text="update"

android:textSize="25dp"

app:backgroundTint="#CBFF9800" />

<Button

android:id="@+id/disbtn"

android:layout\_width="170dp"

android:layout\_height="wrap\_content"

android:layout\_marginHorizontal="5dp"

android:text="display"

android:textSize="25dp"

app:backgroundTint="#CBFF9800" />

</LinearLayout>

<TextView

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:id="@+id/displayView"

android:text="DISPLAY"

android:textSize="35dp"

android:layout\_marginVertical="30dp"

android:gravity="center"

android:textColor="#f38806"

/>

</LinearLayout>

Registration:

 

Updation:

 

Deletion:

