

**Aim**

Create database using SQLite and perform INSERT and SELECT

**CO5**

Develop mobile applications using SQLite.

**Procedure****Activity\_main.xml**

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

<androidx.constraintlayout.widget.ConstraintLayout
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:id="@+id/textView"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Enter the Details Below!"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.108" />
    <EditText
        android:id="@+id/editTextTextPersonName"
```

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```
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginStart="116dp"
        android:layout_marginTop="24dp"
        android:ems="10"
        android:inputType="textPersonName"
        android:hint="Enter Name Here"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toBottomOf="@+id/textView" />
<EditText
        android:id="@+id/editTextTextPersonName4"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginStart="116dp"
        android:layout_marginTop="36dp"
        android:ems="10"
        android:inputType="textPersonName"
        android:hint="Enter contact Here"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toBottomOf="@+id/editTextTextPersonName" />
<EditText
        android:id="@+id/editTextTextPersonName5"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginStart="116dp"
        android:layout_marginTop="40dp"
        android:ems="10"
        android:inputType="textPersonName"
        android:hint="Enter DOB"
```

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```
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toBottomOf="@+id/editTextTextPersonName4" />
<Button
    android:id="@+id/button5"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginStart="76dp"
    android:layout_marginTop="64dp"
    android:hint="Insert data"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/editTextTextPersonName5" />
<Button
    android:id="@+id/button7"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginStart="8dp"
    android:layout_marginTop="64dp"
    android:text="View Details"
    app:layout_constraintStart_toEndOf="@+id/button5"
    app:layout_constraintTop_toBottomOf="@+id/editTextTextPersonName5" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

### MainActivity.java

```
package com.fb.insertview;

import androidx.appcompat.app.AlertDialog;
import androidx.appcompat.app.AppCompatActivity;

import android.database.Cursor;
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 name,age,contact;

    Button create1;

    DBHelper DB;

    @Override

    protected void onCreate(Bundle savedInstanceState) {

        super.onCreate(savedInstanceState);

        setContentView(R.layout.activity_main);

        name = (EditText) findViewById(R.id.editTextTextPersonName);

        age =(EditText) findViewById(R.id.editTextTextPersonName4);

        contact = (EditText) findViewById(R.id.editTextTextPersonName5);

        create1 = (Button) findViewById(R.id.button5);

        Button read = (Button)findViewById(R.id.button7);

        DB=new DBHelper(this);

        create1.setOnClickListener(new View.OnClickListener() {

            @Override

            public void onClick(View v) {

                String nameTXT=name.getText().toString();

                String ageTXT=age.getText().toString();

                String contactTXT=contact.getText().toString();

                Boolean checkinsertdata = DB.insertuserdatas(nameTXT,ageTXT,contactTXT);

                if(checkinsertdata == true)

                {

                    Toast.makeText(MainActivity.this, "data inserted", Toast.LENGTH_SHORT).show();

                }

            }

        })

    }

}
```

---

```
        else
        {
            Toast.makeText(MainActivity.this, "failed to insert", Toast.LENGTH_SHORT).show();
        }
    }
});

read.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
        Cursor res = DB.getdata();
        if(res.getCount()==0)
        {
            Toast.makeText(MainActivity.this, "no datas found", Toast.LENGTH_SHORT).show();
            return;
        }
        StringBuffer buffer = new StringBuffer();
        while(res.moveToNext())
        {
            buffer.append("name:"+res.getString(0)+"\n");
            buffer.append("age:"+res.getString(1)+"\n");
            buffer.append("contact:"+res.getString(2)+"\n\n");
        }
        AlertDialog.Builder builder = new AlertDialog.Builder(MainActivity.this);
        builder.setCancelable(true);
        builder.setTitle("user DEtails");
        builder.setMessage(buffer.toString());
        builder.show();
    }
});
```

```
}  
}
```

### DBHelper.java

```
package com.fb.insertview;  
  
import android.content.ContentValues;  
import android.content.Context;  
import android.database.Cursor;  
import android.database.sqlite.SQLiteDatabase;  
import android.database.sqlite.SQLiteOpenHelper;  
import androidx.annotation.Nullable;  
  
public class DBHelper extends SQLiteOpenHelper {  
    public DBHelper(Context context) {  
        super(context, "user1.db", null, 1);  
    }  
  
    @Override  
    public void onCreate(SQLiteDatabase db) {  
        db.execSQL("create table studdetails (name TEXT primary key, age TEXT, contact  
TEXT)");  
    }  
  
    @Override  
    public void onUpgrade(SQLiteDatabase db, int oldVersion, int newVersion) {  
        db.execSQL("drop table if exists studdetails");  
    }  
  
    public Boolean insertuserdatas (String name, String age,String contact) {  
        SQLiteDatabase DB = this.getWritableDatabase();  
        ContentValues contentvalues = new ContentValues();  
        contentvalues.put("name", name);  
        contentvalues.put("age", age);
```

```
        contentValues.put("contact", contact);

        long result = DB.insert("studdetails", null, contentValues);

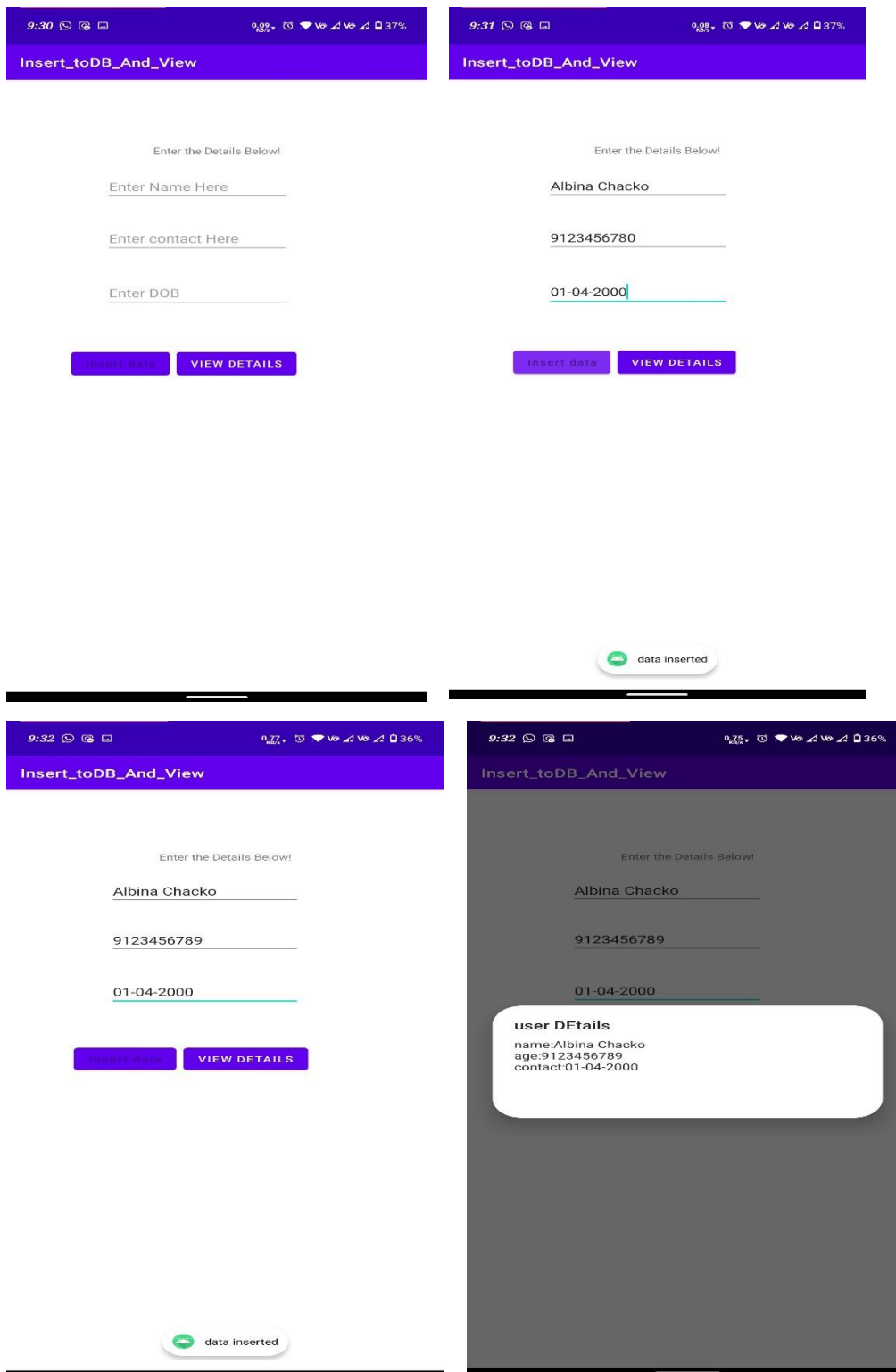
        if (result==-1) {
            return false;
        } else {
            return true;
        }
    }

    public Cursor getdata()
    {
        SQLiteDatabase DB = this.getWritableDatabase();

        Cursor cursor = DB.rawQuery("select * from studdetails",null);

        return cursor;
    }
}
```

## Output Screenshot



## Result

The program was executed and the result was successfully obtained. Thus CO5 was obtained.