

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="Customer_Name"
        android:textStyle="bold"
        android:textSize="16dp"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintBottom_toTopOf="@id/spinner"
        app:layout_constraintEnd_toStartOf="@id/editText"/>

    <EditText
        android:id="@+id/editText"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:ems="10"
        android:inputType="text"
        app:layout_constraintEnd_toEndOf="parent"
```

```
app:layout_constraintStart_toEndOf="@id/textview"  
app:layout_constraintTop_toTopOf="parent"  
app:layout_constraintBottom_toTopOf="@id/spinner"/>
```

```
<Spinner  
    android:id="@+id/spinner"  
    android:layout_width="409dp"  
    android:layout_height="wrap_content"  
    app:layout_constraintStart_toStartOf="parent"  
    app:layout_constraintEnd_toEndOf="parent"  
    app:layout_constraintTop_toBottomOf="@id/textview"  
    app:layout_constraintBottom_toTopOf="@id/Date"/>
```

```
<EditText  
    android:id="@+id/Date"  
    android:layout_width="wrap_content"  
    android:layout_height="wrap_content"  
    android:ems="10"  
    android:inputType="date"  
    app:layout_constraintStart_toStartOf="parent"  
    app:layout_constraintEnd_toEndOf="parent"  
    app:layout_constraintBottom_toTopOf="@id/button"  
    app:layout_constraintTop_toBottomOf="@id/spinner"/>
```

```
<Button  
    android:id="@+id/button"  
    android:layout_width="wrap_content"  
    android:layout_height="wrap_content"  
    android:text="Insert"
```

```
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintEnd_toStartOf="@id/button2"
app:layout_constraintBottom_toTopOf="@id/button3"
app:layout_constraintTop_toBottomOf="@id/Date"/>
```

<Button

```
android:id="@+id/button2"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:text="Display"
app:layout_constraintStart_toEndOf="@id/button"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintBottom_toTopOf="@id/button3"
app:layout_constraintTop_toBottomOf="@id/Date"/>
```

<Button

```
android:id="@+id/button3"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:text="Total"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintTop_toBottomOf="@id/button"/>
```

</androidx.constraintlayout.widget.ConstraintLayout>

MainActivity.java

```
package com.example.test;
```

```
import androidx.appcompat.app.AppCompatActivity;
```

```
import android.app.DatePickerDialog;
```

```
import android.content.Intent;
```

```
import android.os.Bundle;
```

```
import android.view.View;
```

```
import android.widget.AdapterView;
```

```
import android.widget.AdapterView;
```

```
import android.widget.Button;
```

```
import android.widget.DatePicker;
```

```
import android.widget.EditText;
```

```
import android.widget.Spinner;
```

```
import java.util.Calendar;
```

```
public class MainActivity extends AppCompatActivity {
```

```
    MyDBHandler db;
```

```
    EditText name;
```

```
    Button ins,dis,total;
```

```
    Spinner sp;
```

```
    EditText date;
```

```
    String[] items={"1","2","3","4","5"};
```

```
    String selecteditem;
```

```
    String diff;
```

```
    @Override
```

```
    protected void onCreate(Bundle savedInstanceState) {
```

```
        super.onCreate(savedInstanceState);
```

```
        setContentView(R.layout.activity_main);
```

```
        name=findViewById(R.id.editText);
```

```

ins=findViewById(R.id.button);

dis=findViewById(R.id.button2);

total=findViewById(R.id.button3);

sp=findViewById(R.id.spinner);

date=findViewById(R.id.Date);

ArrayAdapter adapter= new ArrayAdapter<>(MainActivity.this,
android.R.layout.simple_spinner_dropdown_item,items);

sp.setAdapter(adapter);

sp.setOnItemClickListener(new AdapterView.OnItemClickListener() {

    @Override

    public void onItemClick(AdapterView<?> parent, View view, int position, long id) {

        selecteditem=parent.getItemAtPosition(position).toString();

    }

    @Override

    public void onNothingSelected(AdapterView<?> parent) {

    }

});

date.setOnClickListener(new View.OnClickListener() {

    @Override

    public void onClick(View v) {

        Calendar c= Calendar.getInstance();

        int pyear=c.get(Calendar.YEAR);

        int pmonth=c.get(Calendar.MONTH);

        int pdate=c.get(Calendar.DATE);

        DatePickerDialog dialog=new
DatePickerDialog(MainActivity.this,android.R.style.Theme_DeviceDefault_DialogWhenLarge, new
DatePickerDialog.OnDateSetListener() {

            @Override

```

```

        public void onDateSet(DatePicker view, int year, int month, int dayOfMonth) {

            diff= String.valueOf(dayOfMonth+"/"+(month+1)+"/"+year);

            date.setText(diff);

        }

    },pyear,pmonth,pdate);

    dialog.show();

}

});

db=new MyDBHandler(getApplicationContext(),"consumer",null,1);

ins.setOnClickListener(new View.OnClickListener() {

    @Override

    public void onClick(View v) {

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

        String citem=selecteditem;

        String cdate=diff;

        db.onInsert(cname,citem,cdate);

        Intent it=new Intent(getApplicationContext(),result.class);

        it.putExtra("Message","recordInserted");

        startActivity(it);

    }

});

dis.setOnClickListener(new View.OnClickListener() {

    @Override

    public void onClick(View v) {

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

        String rec=db.onDisplay(cname);

        Intent it=new Intent(MainActivity.this,result.class);

        it.putExtra("Message",rec);

        startActivity(it);

    }

});

```

```

    }
    });
    total.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View v) {
            String rec=db.OnTotal();
            Intent it=new Intent(MainActivity.this,result.class);
            it.putExtra("Message",rec);
            startActivity(it);
        }
    });
}
}

```

MyDBHandler.java

```

package com.example.test;

import android.content.Context;
import android.database.Cursor;
import android.database.sqlite.SQLiteDatabase;
import android.database.sqlite.SQLiteOpenHelper;

import androidx.annotation.Nullable;

public class MyDBHandler extends SQLiteOpenHelper {

    public MyDBHandler(@Nullable Context context, @Nullable String name, @Nullable
    SQLiteDatabase.CursorFactory factory, int version) {
        super(context, name, factory, version);
    }
}

```

@Override

```
public void onCreate(SQLiteDatabase db) {  
    db.execSQL("create table consumer(name varchar(20),item varchar(20),date varchar(20))");  
}
```

@Override

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

```
}
```

```
public void onInsert(String name,String item,String date){
```

```
    SQLiteDatabase db=this.getWritableDatabase();
```

```
    db.execSQL("insert into consumer values(?,?,?)",new String[]{name,item,date});
```

```
    db.close();
```

```
}
```

```
public String onDisplay(String name){
```

```
    String record="";
```

```
    SQLiteDatabase db=this.getReadableDatabase();
```

```
    Cursor cursor=db.rawQuery("select * from consumer where name=?",new String[]{name} );
```

```
    while (cursor.moveToNext()){
```

```
        String a= cursor.getString(0);
```

```
        String b= cursor.getString(1);
```

```
        String c= cursor.getString(2);
```

```
        record+=a+"\t"+b+"\t"+c+"\n";
```

```
    }
```

```
    db.close();
```

```
    return record;
```

```
}
```

```
public String OnTotal(){
```



```

String record="";

SQLiteDatabase db=this.getReadableDatabase();

Cursor cursor=db.rawQuery("select count(distinct name) from customer",null);

while (cursor.moveToNext()){

    String i=cursor.getString(0);

    record=i;

}

db.close();

return record;

}

}

```

result.java

```

package com.example.test;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;
import android.os.Bundle;
import android.widget.TextView;

public class result extends AppCompatActivity {

    TextView res;

    @Override
    protected void onCreate(Bundle savedInstanceState) {

        super.onCreate(savedInstanceState);

        setContentView(R.layout.activity_result);

        res=findViewById(R.id.textView);

        Intent in =getIntent();

```

```
String Msg=in.getStringExtra("Message");  
res.setText(Msg);  
}  
}
```

activity_result.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=".result">  
  
<TextView  
    android:id="@+id/textView"  
    android:layout_width="wrap_content"  
    android:layout_height="wrap_content"  
    app:layout_constraintStart_toStartOf="parent"  
    app:layout_constraintEnd_toEndOf="parent"  
    app:layout_constraintBottom_toBottomOf="parent"  
    app:layout_constraintTop_toTopOf="parent"/>  
</androidx.constraintlayout.widget.ConstraintLayout>
```