

Sqlite – Query & Rawquery

Objective: This application demonstrates how to create dynamic Query and Rawquery for the select statement.

Technical Specification: This application contains only 1 activity in which data get stored and also get retrieved from database.

First activity (i.e. Main Activity) is the only activity in which data (Name of student and their marks) get inserted at onCreate().

And in this activity there are two buttons which will fetch inserted student name and marks from database and shown in TextView.

In sqlite database, the data can be retrieved from database in two ways:

1. By using query()
2. By using rawquery()

In this application we used both query() and rawquery() on select statement with where clause to make dynamic query by putting placeholder in the where clause.

Dynamic query:

```
public Cursor getAllRecords(int query)
{
    Return db.query(DATABASE_TABLE,
                    new String[] {KEY_ROWID,
KEY_NAME,KEY_MARKS}, "marks = ?",new String[]{Integer.toString(query)}, null, null, null,
null);
}
```

placeholder

Dynamic Rawquery:

```
public Cursor getRawRecords(int rwqry){
return db.rawQuery("select * from student where marks > ?",new String[]
{Integer.toString(rwqry)});
}
```

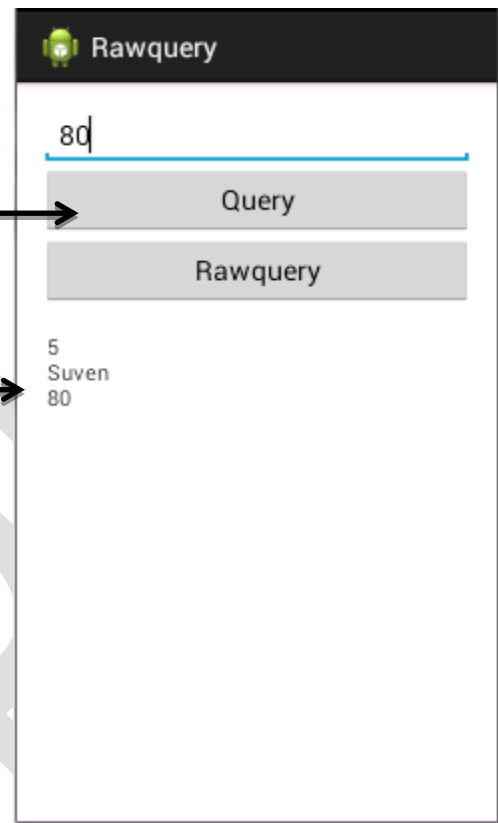
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Method for fetching data using query:

```
public void Query(View v){  
  
    data = marks.getText().toString();  
    value = Integer.parseInt(data);  
  
    db.open();  
    Cursor cc = db.getAllRecords(value); // Cursor is an interface which talks to resultset  
    if(cc.getCount() != 0){  
        cc.moveToFirst();  
  
        String row_values = "";  
        do {  
            for(int i = 0 ; i < cc.getColumnCount(); i++)  
            {  
                row_values = row_values + "\n" + cc.getString(i);  
            }  
  
            shwdata.setText(row_values);  
  
        } while(cc.moveToNext()); //keeps running till all records are fetched from result set  
        }  
    db.close();  
}
```

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Query button will call Query() method and fetch the record of student whose **marks** equals to the value entered in the **EditText**. And **result** will be display in the **TextView**

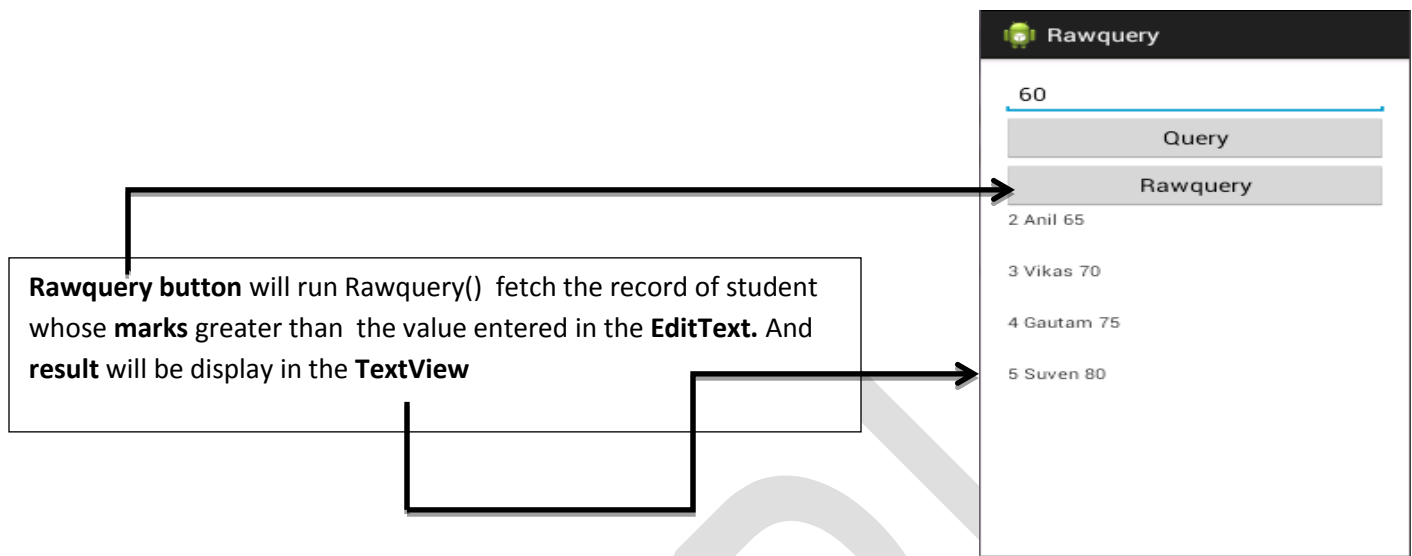


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Method for fetching data by using rawquery :

```
public void Rawquery(View v){  
  
    data = marks.getText().toString();  
    value = Integer.parseInt(data);  
  
    db.open();  
    Cursor cc = db.getRawRecords(value); // Cursor is an interface which talks to resultset  
  
    if(cc.getCount() != 0){  
        cc.moveToFirst(); // moves to the First record in the result set  
  
        String row_values = "";  
  
        do{  
            for(int i = 0 ; i < cc.getColumnCount(); i++){  
                row_values = row_values + " " + cc.getString(i);  
            }  
  
            for(int j=0;j<3;j++){ // concats \n for 3 times at the end of the row_values  
                row_values= row_values+"\n";  
            }  
  
            shwdata.setText(row_values);  
  
        } while (cc.moveToNext()); // keeps running till all records are fetched from result set  
        }  
    db.close();  
}
```

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<https://drive.google.com/file/d/0B4rCFkKCsCeKaDU2TE13OXF0MDg/view?usp=sharing>