**Handling the Database related queries with JDBC**

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| --- | --- |
| **Main**  **package** com.company;  **import** com.company.model.Datasourse; **import** java.util.List;  **public class** Main {   **public static void** main(String[] args) {  Datasourse d = **new** Datasourse();  **if**(!d.open()) {  System.***out***.println(**"Can't open d"**);  **return**;  }   List<Artists> xmp = Datasourse.*queryArtists*();  **if** (xmp != **null**){  **for** (Artists at : xmp){  System.***out***.println(at.getName() + **" "** + at.getId());  }  }   d.close();  } }  **ARTISTS**  **package** com.company;  **public class** Artists {   **private int id**;  **private** String **name**;   **public int** getId() {  **return id**;  }   **public void** setId(**int** id) {  **this**.**id** = id;  }   **public** String getName() {  **return name**;  }   **public void** setName(String name) {  **this**.**name** = name;  } } | **DATASOURSE**  **package** com.company.model; **import** com.company.Artists; **import** java.sql.\*; **import** java.util.ArrayList; **import** java.util.List;  **public class** Datasourse {   **public static final** String ***DB\_NAME*** = **"music.db"**;  **public static final** String ***CONNECTION\_STRING*** = **"jdbc:sqlite:C:\\javadb\\"** + ***DB\_NAME***;   **public static final** String ***TABLE\_ALBUMS*** = **"albums"**;  **public static final** String ***COLUMN\_ALBUM\_ID*** = **"\_id"**;  **public static final** String ***COLUMN\_ALBUM\_NAME*** = **"name"**;  **public static final** String ***COLUMN\_ALBUM\_ARTIST*** = **"artist"**;   **public static final** String ***TABLE\_ARTISTS*** = **"artists"**;  **public static final** String ***COLUMN\_ARTIST\_ID*** = **"\_id"**;  **public static final** String ***COLUMN\_ARTIST\_NAME*** = **"name"**;   **public static final** String ***TABLE\_SONGS*** = **"songs"**;  **public static final** String ***COLUMN\_SONG\_TRACK*** = **"track"**;  **public static final** String ***COLUMN\_SONG\_TITLE*** = **"title"**;  **public static final** String ***COLUMN\_SONG\_ALBUM*** = **"album"**;   **private static** Connection *conn*; *//make it static else you gonna get error* **public boolean** open() {  **try** {  *conn* = DriverManager.*getConnection*(***CONNECTION\_STRING***);  **return true**;  } **catch**(SQLException e) {  System.***out***.println(**"Couldn't connect to database: "** + e.getMessage());  **return false**;  }  }   **public void** close() {  **try** {  **if**(*conn* != **null**) {  *conn*.close();  }  } **catch**(SQLException e) {  System.***out***.println(**"Couldn't close connection: "** + e.getMessage());  }  }   **public static** List<Artists> queryArtists() {   **try**(Statement statement = *conn*.createStatement();  *//Error:(53, 35) java: non-static variable conn cannot be referenced from a static context* ResultSet results = statement.executeQuery(**"SELECT \* FROM "** + ***TABLE\_ARTISTS*** + **" order by name"**)) {   List<Artists> artists = **new** ArrayList<>();  **while**(results.next()) {  Artists artist = **new** Artists();  artist.setId(results.getInt(***COLUMN\_ARTIST\_ID***));  artist.setName(results.getString(***COLUMN\_ARTIST\_NAME***));  artists.add(artist);  }   **return** artists;   } **catch**(SQLException e) {  System.***out***.println(**"Query failed: "** + e.getMessage());  **return null**;  }   } } |

**OUTPUT**

1000 Maniacs 11

10cc 86

AC DC 66

Aerosmith 152

Alice Cooper 178

Allan Holdsworth 104

Animals 69

Arlo Guthrie 73

Axel Rudi Pell 16

B.B. King 145

Bachman Turner Overdrive 163

Bad Company 189

Be Bop Deluxe 51

Beatles 181

Bernie Torme 135

Beth Orton 98

Biffy Clyro 154

Big Brother & The Holding Company 4

Billy Idol 176

Billy Joel 188

Black Crowes 191

Black Keys 133

Black Oak Arkansas 44

Black River Project 62

Black Sabbath 36

Blackbeard's Tea Party 72

Blaster Bates 9

Blue Öyster Cult 114

Bo Didley 139

Bob Marley 119

Bon Jovi 54

Bonzo Dog Band 124

Bruce Springsteen 65

Budgie 18

Camel 97

Captain Beefheart 164

Carl Orff 120

Carole King 38

Chemical Brothers 201

Chopyn 40

Chumbawamba 167

Clannad 158

Commitments 19

Corey Taylor 161

Cream 126

Crosby Stills Nash & Young 14

Darkness 41

David Bowie 105

Deep Purple 196

Dio 35

Dire Straits 134

Doors 137

Dr Feelgood 37

DragonForce 182

Dread Zeppelin 110

Dream Theater 32

Dusty Springfield 30

Edvard Grieg 128

Elf 2

Emerson Lake & Palmer 112

Enigma 20

Ennio Morricone 108

Eric Clapton 166

Eric Serra 165

Evanescence 125

Extreme 79

Faith No More 142

Fleetwood Mac 92

Florence And The Machine 53

Foo Fighters 93

Foreigner 150

Frank Zappa 140

Frank Zappa Captain Beefheart & The Mothers 60

Free 101

Garbage 194

Gary Moore 184

Genesis 116

George Thorogood & The Destroyers 15

Gorillaz 149

Grover Washinton Jr 168

Guess Who 58

Guns N' Roses 169

Hawkwind 28

Hayseed Dixie 25

Heart 39

Heaven & Hell 185

Horslips 113

Howlin' Wolf 155

Ian Gillan 80

Iggy Pop 174

Imelda May 34

Iron Maiden 8

J.J. Cale 151

Jakatta 88

Jeff Buckley 159

Jefferson Airplane 55

Jefferson Starship 77

Jimi Hendrix 90

Jimmy Page & Robert Plant 42

Joe Bonamassa 132

Joe Satriani 146

John Lee Hooker 83

John Martyn 85

John Paul Jones 187

Jools Holland 183

Judas Priest 106

Kate Bush 91

Kevin Bloody Wilson 21

King Crimson 131

Kula Shaker 162

Leaf Hound 17

Leatherat 75

Led Zeppelin 64

Lenny Kravitz 117

Lone Star 81

Lou Reed 45

Madonna 103

Mahogany Rush 1

Man 68

Manfred Mann 47

Marillion 156

Meat Loaf 143

Mehitabel1 3

Meredith Brooks 129

Metallica 192

Michael Moorcock and the Deep Fix 100

Mood Elevator 49

Mountain 57

Mumford & Sons 111

Mussorgsky 141

Nazareth 13

Neutrons 144

New Model Army 95

O.S.T. 122

Oasis 46

Ozric Tentacles 52

Ozzy Osbourne 76

Paco De Lucia 26

Pat Benatar 6

Patti Smith 190

Paul Giovanni 186

Pearl Jam 89

Peter Gabriel 33

Pink Fairies 195

Pink Floyd 130

Pixies 22

Pressgang 24

Primordial Soup 118

Procol Harum 10

Prokofiev 70

Queen 171

Rachel Portman 87

Rainbow 160

Richard Ashcroft 138

Robert Calvert 94

Rolling Stones 56

Rory Gallagher 7

Roy Harper 5

Ry Cooder 74

Seasick Steve 175

Smetana 78

Soundtracks 31

Split Whiskers 177

Status Quo 29

Steely Dan 107

Steppenwolf 96

Steve Hackett 180

Steve Harley & Cockney Rebel 170

Steve Hillage 173

Steve Vai 61

Stevie Ray Vaughan 200

Stone Roses 157

Sweet 172

T.Rex 197

Ted Nugent 27

Terry Reid 109

The Clan 102

The Killers 121

Thin Lizzy 71

Thomas Tallis 199

Thunder 147

Tom Jones 127

Tom Lehrer 99

Tom Petty & The Heartbreakers 198

Tomita 48

Treatment 63

Troggs 153

U2 193

UFO 115

Uriah Heep 82

Van Halen 84

Vangelis 43

Velvet Revolver 136

Velvet Underground 67

Vladimir Vysotsky 59

Warner E Hodges 50

White Zombie 123

Wishbone Ash 12

Yardbirds 148

Yngwie Malmsteen 179

ZZ Top 23