**Executing Stringbuilder**

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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*(**Datasourse.*ORDER\_BY\_ASC***);  **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***;   *//column from database comes by a perticular order* **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 int *INDEX\_ALBUM\_ID*** = 1;  **public static final int *INDEX\_ALBUM\_NAME*** = 2;  **public static final int *INDEX\_ALBUM\_ARTIST*** = 3;   **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 int *INDEX\_ARTIST\_ID*** = 1;  **public static final int *INDEX\_ARTIST\_NAME*** = 2;   **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"**;  **public static final int *INDEX\_SONG\_ID*** = 1;  **public static final int *INDEX\_SONG\_TRACK*** = 2;  **public static final int *INDEX\_SONG\_TITLE*** = 3;  **public static final int *INDEX\_SONG\_ALBUM*** = 4;   **public static final int *ORDER\_BY\_NONE*** = 1;  **public static final int *ORDER\_BY\_ASC*** = 2;  **public static final int *ORDER\_BY\_DESC*** = 3;   **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(**int** sortOrder) {   StringBuilder sb = **new** StringBuilder(**"SELECT \* FROM "**);  sb.append(***TABLE\_ARTISTS***);  **if**(sortOrder != ***ORDER\_BY\_NONE***) {  sb.append(**" ORDER BY "**);  sb.append(***COLUMN\_ARTIST\_NAME***);  sb.append(**" COLLATE NOCASE "**);  **if**(sortOrder == ***ORDER\_BY\_DESC***) {  sb.append(**"DESC"**);  } **else** {  sb.append(**"ASC"**);  }  }   **try**(Statement statement = *conn*.createStatement();  *//Error:(53, 35) java: non-static variable conn cannot be referenced from a static context* ResultSet results = statement.executeQuery(sb.toString())) {   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**;  }   } } |
| List<Artists> xmp=Datasourse.*queryArtists*(**Datasourse.*ORDER\_BY\_ASC***); | List<Artists> xmp = Datasourse.*queryArtists*(Datasourse.***ORDER\_BY\_DESC***); |
| 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 | ZZ Top 23  Yngwie Malmsteen 179  Yardbirds 148  Wishbone Ash 12  White Zombie 123  Warner E Hodges 50  Vladimir Vysotsky 59  Velvet Underground 67  Velvet Revolver 136  Vangelis 43  Van Halen 84  Uriah Heep 82  UFO 115  U2 193  Troggs 153  Treatment 63  Tomita 48  Tom Petty & The Heartbreakers 198  Tom Lehrer 99  Tom Jones 127  Thunder 147  Thomas Tallis 199  Thin Lizzy 71  The Killers 121  The Clan 102  Terry Reid 109  Ted Nugent 27  T.Rex 197  Sweet 172  Stone Roses 157  Stevie Ray Vaughan 200  Steve Vai 61  Steve Hillage 173  Steve Harley & Cockney Rebel 170  Steve Hackett 180  Steppenwolf 96  Steely Dan 107  Status Quo 29  Split Whiskers 177  Soundtracks 31  Smetana 78  Seasick Steve 175  Ry Cooder 74  Roy Harper 5  Rory Gallagher 7  Rolling Stones 56  Robert Calvert 94  Richard Ashcroft 138  Rainbow 160  Rachel Portman 87  Queen 171  Prokofiev 70  Procol Harum 10  Primordial Soup 118  Pressgang 24  Pixies 22  Pink Floyd 130  Pink Fairies 195  Peter Gabriel 33  Pearl Jam 89  Paul Giovanni 186  Patti Smith 190  Pat Benatar 6  Paco De Lucia 26  Ozzy Osbourne 76  Ozric Tentacles 52  Oasis 46  O.S.T. 122  New Model Army 95  Neutrons 144  Nazareth 13  Mussorgsky 141  Mumford & Sons 111  Mountain 57  Mood Elevator 49  Michael Moorcock and the Deep Fix 100  Metallica 192  Meredith Brooks 129  Mehitabel1 3  Meat Loaf 143  Marillion 156  Manfred Mann 47  Man 68  Mahogany Rush 1  Madonna 103  Lou Reed 45  Lone Star 81  Lenny Kravitz 117  Led Zeppelin 64  Leatherat 75  Leaf Hound 17  Kula Shaker 162  King Crimson 131  Kevin Bloody Wilson 21  Kate Bush 91  Judas Priest 106  Jools Holland 183  John Paul Jones 187  John Martyn 85  John Lee Hooker 83  Joe Satriani 146  Joe Bonamassa 132  Jimmy Page & Robert Plant 42  Jimi Hendrix 90  Jefferson Starship 77  Jefferson Airplane 55  Jeff Buckley 159  Jakatta 88  J.J. Cale 151  Iron Maiden 8  Imelda May 34  Iggy Pop 174  Ian Gillan 80  Howlin' Wolf 155  Horslips 113  Heaven & Hell 185  Heart 39  Hayseed Dixie 25  Hawkwind 28  Guns N' Roses 169  Guess Who 58  Grover Washinton Jr 168  Gorillaz 149  George Thorogood & The Destroyers 15  Genesis 116  Gary Moore 184  Garbage 194  Free 101  Frank Zappa Captain Beefheart & The Mothers 60  Frank Zappa 140  Foreigner 150  Foo Fighters 93  Florence And The Machine 53  Fleetwood Mac 92  Faith No More 142  Extreme 79  Evanescence 125  Eric Serra 165  Eric Clapton 166  Ennio Morricone 108  Enigma 20  Emerson Lake & Palmer 112  Elf 2  Edvard Grieg 128  Dusty Springfield 30  Dream Theater 32  Dread Zeppelin 110  DragonForce 182  Dr Feelgood 37  Doors 137  Dire Straits 134  Dio 35  Deep Purple 196  David Bowie 105  Darkness 41  Crosby Stills Nash & Young 14  Cream 126  Corey Taylor 161  Commitments 19  Clannad 158  Chumbawamba 167  Chopyn 40  Chemical Brothers 201  Carole King 38  Carl Orff 120  Captain Beefheart 164  Camel 97  Budgie 18  Bruce Springsteen 65  Bonzo Dog Band 124  Bon Jovi 54  Bob Marley 119  Bo Didley 139  Blue Öyster Cult 114  Blaster Bates 9  Blackbeard's Tea Party 72  Black Sabbath 36  Black River Project 62  Black Oak Arkansas 44  Black Keys 133  Black Crowes 191  Billy Joel 188  Billy Idol 176  Big Brother & The Holding Company 4  Biffy Clyro 154  Beth Orton 98  Bernie Torme 135  Beatles 181  Be Bop Deluxe 51  Bad Company 189  Bachman Turner Overdrive 163  B.B. 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| List<Artists> xmp = Datasourse.*queryArtists*(Datasourse.***ORDER\_BY\_NONE***); | |
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| Mahogany Rush 1  Elf 2  Mehitabel1 3  Big Brother & The Holding Company 4  Roy Harper 5  Pat Benatar 6  Rory Gallagher 7  Iron Maiden 8  Blaster Bates 9  Procol Harum 10  1000 Maniacs 11  Wishbone Ash 12  Nazareth 13  Crosby Stills Nash & Young 14  George Thorogood & The Destroyers 15  Axel Rudi Pell 16  Leaf Hound 17  Budgie 18  Commitments 19  Enigma 20  Kevin Bloody Wilson 21  Pixies 22  ZZ Top 23  Pressgang 24  Hayseed Dixie 25  Paco De Lucia 26  Ted Nugent 27  Hawkwind 28  Status Quo 29  Dusty Springfield 30  Soundtracks 31  Dream Theater 32  Peter Gabriel 33  Imelda May 34  Dio 35  Black Sabbath 36  Dr Feelgood 37  Carole King 38  Heart 39  Chopyn 40  Darkness 41  Jimmy Page & Robert Plant 42  Vangelis 43  Black Oak Arkansas 44  Lou Reed 45  Oasis 46  Manfred Mann 47  Tomita 48  Mood Elevator 49  Warner E Hodges 50  Be Bop Deluxe 51  Ozric Tentacles 52  Florence And The Machine 53  Bon Jovi 54  Jefferson Airplane 55  Rolling Stones 56  Mountain 57  Guess Who 58  Vladimir Vysotsky 59  Frank Zappa Captain Beefheart & The Mothers 60  Steve Vai 61  Black River Project 62  Treatment 63  Led Zeppelin 64  Bruce Springsteen 65  AC DC 66  Velvet Underground 67  Man 68  Animals 69  Prokofiev 70  Thin Lizzy 71  Blackbeard's Tea Party 72  Arlo Guthrie 73  Ry Cooder 74  Leatherat 75  Ozzy Osbourne 76  Jefferson Starship 77  Smetana 78  Extreme 79  Ian Gillan 80  Lone Star 81  Uriah Heep 82  John Lee Hooker 83  Van Halen 84  John Martyn 85  10cc 86  Rachel Portman 87  Jakatta 88  Pearl Jam 89  Jimi Hendrix 90  Kate Bush 91  Fleetwood Mac 92  Foo Fighters 93  Robert Calvert 94  New Model Army 95  Steppenwolf 96  Camel 97  Beth Orton 98  Tom Lehrer 99  Michael Moorcock and the Deep Fix 100  Free 101  The Clan 102  Madonna 103  Allan Holdsworth 104  David Bowie 105  Judas Priest 106  Steely Dan 107  Ennio Morricone 108  Terry Reid 109  Dread Zeppelin 110  Mumford & Sons 111  Emerson Lake & Palmer 112  Horslips 113  Blue Öyster Cult 114  UFO 115  Genesis 116  Lenny Kravitz 117  Primordial Soup 118  Bob Marley 119  Carl Orff 120  The Killers 121  O.S.T. 122  White Zombie 123  Bonzo Dog Band 124  Evanescence 125  Cream 126  Tom Jones 127  Edvard Grieg 128  Meredith Brooks 129  Pink Floyd 130  King Crimson 131  Joe Bonamassa 132  Black Keys 133  Dire Straits 134  Bernie Torme 135  Velvet Revolver 136  Doors 137  Richard Ashcroft 138  Bo Didley 139  Frank Zappa 140  Mussorgsky 141  Faith No More 142  Meat Loaf 143  Neutrons 144  B.B. King 145  Joe Satriani 146  Thunder 147  Yardbirds 148  Gorillaz 149  Foreigner 150  J.J. Cale 151  Aerosmith 152  Troggs 153  Biffy Clyro 154  Howlin' Wolf 155  Marillion 156  Stone Roses 157  Clannad 158  Jeff Buckley 159  Rainbow 160  Corey Taylor 161  Kula Shaker 162  Bachman Turner Overdrive 163  Captain Beefheart 164  Eric Serra 165  Eric Clapton 166  Chumbawamba 167  Grover Washinton Jr 168  Guns N' Roses 169  Steve Harley & Cockney Rebel 170  Queen 171  Sweet 172  Steve Hillage 173  Iggy Pop 174  Seasick Steve 175  Billy Idol 176  Split Whiskers 177  Alice Cooper 178  Yngwie Malmsteen 179  Steve Hackett 180  Beatles 181  DragonForce 182  Jools Holland 183  Gary Moore 184  Heaven & Hell 185  Paul Giovanni 186  John Paul Jones 187  Billy Joel 188  Bad Company 189  Patti Smith 190  Black Crowes 191  Metallica 192  U2 193  Garbage 194  Pink Fairies 195  Deep Purple 196  T.Rex 197  Tom Petty & The Heartbreakers 198  Thomas Tallis 199  Stevie Ray Vaughan 200  Chemical Brothers 201 | |