Database(Basic)

```
← → □   Customer.java ×
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      package Model:
                                                                                             package Model;
      public class Product {
                                                                                             public class Customer {
          private int id;
                                                                                                 private String name;
 <u>Q.</u>
          private String description;
                                                                                                 private String email;
 <u>Q.</u>
          private double cost;
                                                                                                 private String phone;
 6
                                                                                        6
 7
          public Product(int id, String description, double cost) {
                                                                                                 public Customer(String name, String email, String phone) {
 8
              this.id = id;
                                                                                                     this.name = name;
                                                                                                     this.email = email;
              this.description = description;
 9
10
              this.cost = cost;
                                                                                        10
                                                                                                     this.phone = phone;
11
                                                                                        11
12
                                                                                       12
   口
13
          public int getId() {
                                                                                       13
                                                                                          Ē
                                                                                                 public String getName() {
14
              return id;
                                                                                       14
                                                                                                     return name;
15
                                                                                        15
16
                                                                                       16
   巨
17
          public String getDescription() {
                                                                                       17
                                                                                                 public String getEmail() {
              return description;
                                                                                                     return email;
18
                                                                                       18
19
                                                                                       19
20
                                                                                       20
21
   口
          public double getCost() {
                                                                                          口
                                                                                                 public String getPhone() {
                                                                                       21
22
              return cost;
                                                                                       22
                                                                                                     return phone;
23
                                                                                       23
24
                                                                                        24
25
          @Override
                                                                                       25
                                                                                                 @Override
 0
          public String toString() {
                                                                                                 public String toString() {
27
              StringBuilder sb = new StringBuilder();
                                                                                       27
                                                                                                     StringBuilder sb = new StringBuilder();
28
              sb.append("Product(id=").append(id);
                                                                                       28
                                                                                                     sb.append("Customer{name=").append(name);
29
              sb.append(", description=").append(description);
                                                                                       29
                                                                                                     sb.append(", email=").append(email);
30
              sb.append(", cost=").append(cost);
                                                                                       30
                                                                                                     sb.append(", phone").append(phone);
31
              sb.append('}');
                                                                                       31
                                                                                                     sb.append('}');
32
              return sb.toString();
                                                                                        32
                                                                                                      return sb.toString();
33
                                                                                        33
```

showCustomer();

Zed Motor Co

Big Car Parts

Old Media Productions

Yankee Computer Repair Ltd 212-555-0191 BUILD SUCCESSFUL (total time: 1 second)

313-555-0151

```
public class Inclass Database {
      private static final String DRIVER = "org.apache.derby.jdbc.ClientDriver";
      private static final String DB URL = "jdbc:derby://localhost:1527/sample";
      private static final String USER = "app";
      private static final String PASS = "app";
public static void showCustomer() {
           Connection con = null;
           trv {
              Class.forName(DRIVER);
              con = DriverManager.getConnection(DB URL, USER, PASS);
              Statement stm = con.createStatement();
              ResultSet rs = stm.executeQuery("SELECT name,phone FROM customer");
              System.out.printf("%-30s %-12s\n", "NAME", "PHONE");
              while (rs.next()) {
                  System.out.printf("%-30s %-12s\n", rs.getString("name"), rs.getString("phone"));
           } catch (ClassNotFoundException ex) {
              System.out.println("Class not found : " + ex.getMessage());
           } catch (SQLException ex) {
              System.out.println("SQL exception : " + ex.getMessage());
           } finally {
              try {
                  con.close();
              } catch (SQLException ex) {
ndass_Database (run) × Java DB Database Process ×
                  305-555-0148
Jumpo Eagle Corp
New Enterprises
                         214-555-0133
Wren Computers
                         555-555-0175
Small Bill Company
                         650-555-0160
Bob Hosting Corp.
Early CentralComp
                          408-555-0157
John Valley Computers
                         408-555-0169
Big Network Systems
                         650-555-0181
West Valley Inc.
                          313-555-0172
```

showCustomerV2();

```
public static void showCustomer V2() {
           try{
               Connection con = DriverManager.getConnection(DB URL, USER, PASS);
               Statement stmt = con.createStatement();
               ResultSet rs = stmt.executeQuery("select * from customer");
               System.out.printf("%-30s %-12s\n", "NAME", "PHONE");
               while (rs.next()) {
                   System.out.printf("%-30s %-12s\n",rs.getString("name") ,rs.getString("phone"));
               1
               con.close();
               stmt.close();
               rs.close();
           } catch(SQLException ex) {
               System.out.println("SQL exception : " + ex.getMessage());
put X
                            305-555-0188
                           305-555-0148
```

nclass_Database (run) × Java DB Database Process × Jumpo Eagle Corp New Enterprises Wren Computers 214-555-0133 Small Bill Company 555-555-0175 Bob Hosting Corp. 650-555-0160 Early CentralComp 408-555-0157 John Valley Computers 408-555-0169 Big Network Systems 650-555-0181 West Valley Inc. 313-555-0172 Zed Motor Co 313-555-0151 Big Car Parts 313-555-0144 Old Media Productions 212-555-0110 Yankee Computer Repair Ltd 212-555-0191 BUILD SUCCESSFUL (total time: 0 seconds)

showCustomerV3();

public static void showCustomer V3() {

[Customer{name=Jumbo Eagle Corp, email=jumboeagle@example.com, phone305-555-0188}, Customer{name=New Enterprises, Customer{name=Jumbo Eagle Corp, email=jumboeagle@example.com, phone305-555-0188}
BUILD SUCCESSFUL (total time: 0 seconds)

showProduct();

BUILD SUCCESSFUL (total time: 0 seconds)

```
戸
       public static void showProduct() {
           try(Connection con = DriverManager.getConnection(DB_URL, USER, PASS);
               Statement stm = con.createStatement();) {
               ResultSet rs = stm.executeQuery("SELECT Description, Purchase Cost FROM Product");
               System.out.printf("%-60s %-12s\n", "Description", "Cost");
               while (rs.next()) {
                    System.out.printf("%-60s %-12s\n", rs.getString("Description"), rs.getDouble("Purchase Cost"));
           } catch (SQLException ex) {
               System.out.println("SQL exception : " + ex.getMessage());
put X
class_Database (run) × Java DB Database Process ×
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                                                         199.95
```