```java
import java.io.DataOutputStream;
import java.io.IOException;
import java.sql.*;
import java.util.Scanner;
public class database {
public static Connection con;
public static Statement st;

  public static void print(String s,int num)
    {
      {
       if(s==null)
        num=30-4;
       else
      num=num-s.length();

    System.out.print(" "+s);
    for(int i=0;i<num;i++)
    {
     System.out.print(" ");
    }
    System.out.print("|");
      }

    }
  public static void  queryexecute(String query)
  {

  try {
    ResultSet rs1 = st.executeQuery(query);
      ResultSetMetaData rsmd;
   rsmd = rs1.getMetaData();
   System.out.println();
    for(int j=0;j<30*rsmd.getColumnCount()+rsmd.getColumnCount()+4;j++)
      {
       System.out.print("-");
      }
      System.out.println();
    for(int i=1;i<=rsmd.getColumnCount();i++)
      {
    if(i==1)
       System.out.print("|");
    String s=rsmd.getColumnName(i);
      print(s,30);

      }
    System.out.println();
    for(int j=0;j<30*rsmd.getColumnCount()+rsmd.getColumnCount()+4;j++)
      {
       System.out.print("-");
      }
      System.out.println();
      while(rs1.next())
      {
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        for(int i=1;i<=rsmd.getColumnCount();i++)
        {
         if(i==1)
          System.out.print("|");
        // int len=rs1.getString(i).length();
         print(rs1.getString(i),30);
        }
         System.out.println();


        }
        for(int j=0;j<30*rsmd.getColumnCount()+rsmd.getColumnCount()+4;j++)
        {
         System.out.print("-");
        }
         System.out.println();

  } catch (SQLException e) {
   // TODO Auto-generated catch block
   e.printStackTrace();
  }


}
 public static void main(String[]args) throws Exception
{
String query="";
String url="jdbc:mysql://localhost:3306/jdbc";
String uname="root";
String pass="";

Class.forName("com.mysql.cj.jdbc.Driver");
 con=DriverManager.getConnection(url, uname, pass);
 st=con.createStatement();
 Scanner sc=new Scanner(System.in);
int ch;
    while(true)
    {
    System.out.println("\n1 show tables"+"\t"+"2 Describe Table"+"\t"+"3 View "+"\t"+"4 Index"+"\t"+"9 Exit");
    ch=sc.nextInt();
    switch(ch)
    {
    case 1 :
        str="show full tables;";
        queryexecute(str);
        break;
    case 2 :
        int choice;
        System.out.println("1 Customer"+"\t"+"2 order"+"\t"+"3 book"+"\t"+"4 author"+"\t"+"5 Publisher");
        choice=sc.nextInt();
        switch(choice)
        {
        case 1 : str="describe Customer;";
                queryexecute(str);
                break;
        case 2 : str="describe order;";
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                queryexecute(str);
                break;
        case 3 : str="describe book;";
                queryexecute(str);
                break;
        case 4 : str="describe author;";
                queryexecute(str);
                break;
        case 5 : str="describe publisher;";
                queryexecute(str);
                 break;
        }
        break;

    case 3 : views();
            break;
    case 4 : indexes();
            break;
    case 9 : flag=1;
        break;

    }
    if(flag==1)
        {
         flag=0;
         break;
        }

    }
    st.close();
  con.close();



}
private static void indexes() {
 //String query="create index cities on Customer(city)";
 //queryexecute(query);
 String query="show indexes from Customer;";
 queryexecute(query);


}
private static void views() {
 String query="";
 /*query="create view order_details as select  order_no,cust_no,cust_fname,ISBN,title\n" +
   "from orders\n" +
   "inner join Customer c using (cust_no)\n" +
   "inner join book b using (ISBN)\n" +
   "group by order_no; ";
 queryexecute(query);*/
 query="describe order_details;";
 queryexecute(query);
```

```
}
}
```