

1.

CRETING TABLE:

```
package skill2;
```

```
import java.sql.Connection; import
```

```
java.sql.DriverManager; import java.sql.Statement;
```

```
public class practical2 {
```

```
    public static void main(String []args) {
```

```
        try {
```

```
            Connection con=null;
```

```
            Class.forName("oracle.jdbc.driver.OracleDriver");
```

```
            con=DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:xe","java","java");
```

```
            Statement stmt=con.createStatement();
```

```
            String qry="create table Hostle(ID integer primary  
key,FirstName varchar(10),LastName varchar(10),yearofStudy integer,Gender  
varchar(10),Department varchar(10),phn Long,DateOfBirth  
varchar(10),ParentName varchar(10),Pphno integer,Address varchar(50),photo  
Blob,paymentreciept BLOB)";
```

```
            stmt.executeUpdate(qry);
```

```

    }

    catch(Exception e) {

        System.out.println(e);

    }

}

}

```

Output:

The screenshot shows a SQL*Plus session. The user connects as 'system' with password 'admin'. The prompt changes to 'SQL>'. The user enters 'desc emp;', and the output shows the structure of the EMP table:

name	null?	type
EMP	NOT NULL	NUMBER(4)
LASTNAME		VARCHAR2(10)
FIRSTNAME		VARCHAR2(10)
EMAIL		VARCHAR2(25)
PHONE		VARCHAR2(20)
DEPARTMENT		VARCHAR2(15)
JOB		VARCHAR2(10)
DATEHIRED		DATE
SALARY		NUMBER(8,2)
COMMISSION		NUMBER(2,1)
MANAGER		NUMBER(4)
ADDRESS		VARCHAR2(50)
PHOTO		BLOB
PRIMARYKEY		BLOB

The prompt returns to 'SQL>'.

Insert details: package skill2;

```
import java.io.DataInputStream;
import java.io.File; import
java.io.FileInputStream; import
java.sql.Connection; import
java.sql.DriverManager; import
java.sql.PreparedStatement; import
java.util.Scanner;
```

```
public class Insertdetails {
```

```
    public static void main(String[] args) {
```

```
        try {
```

```
            Connection con=null;
```

```
            Class.forName("oracle.jdbc.driver.OracleDriver");
```

```
            con=DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:xe", "java", "java");
```

```
            Scanner sc=new Scanner(System.in);
```

```
            System.out.println("Enter id number");
```

```
            int n=sc.nextInt();
```

```
            System.out.println("First Name");
```

```
            String fname=sc.next();
```

```
            System.out.println("LastName");
```

```

        String lname=sc.next();

        System.out.println("Enter Year of study");

        int year=sc.nextInt();

        System.out.println("Gender");

        String gender=sc.next();
System.out.println("Department");

        String dept=sc.next();

        System.out.println("Phone number");

        Long phn=sc.nextLong();

        System.out.println("Date of birth");

        String date=sc.next();

        System.out.println("Parent Name");

        String pname=sc.next();

        System.out.println("Parent Phone number");

        Long ppno=sc.nextLong();

        System.out.println("address");

        String add=sc.next();

        String qry="insert into
Hostle(ID,FirstName,LastName,yearofStudy,Gender,Department,phn,DateOfBir
th,ParentName,Pphno,Address,photo,PAYMENTRECIEPT)values(?,?,?,?,?,?,?,?,
?,?,?,?,?)";

        PreparedStatement pstmt=con.prepareStatement(qry);

        pstmt.setInt(1,n);

        pstmt.setString(2, fname);

        pstmt.setString(3, lname);

```

```
pstmt.setInt(4,year);  
pstmt.setString(5,gender);  
pstmt.setString(6, dept);  
pstmt.setLong(7,phn);           pstmt.setString(8,date);  
    pstmt.setString(9,pname);  
pstmt.setLong(10,ppno);  
pstmt.setString(11,add);
```

```
        FileInputStream fin=new  
FileInputStream("C:\\Users\\sandy\\Downloads\\google2.0.0.jpg");  
    pstmt.setBinaryStream(12,fin,fin.available());
```

```
        File pdfFile = new  
File("C:\\Users\\sandy\\Downloads\\atcd.pdf");  
        byte[] pdfData = new byte[(int) pdfFile.length()];  
        DataInputStream dis = new DataInputStream(new  
FileInputStream(pdfFile));  
        dis.readFully(pdfData); // read from file into byte[] array  
dis.close();  
pstmt.setBytes(13, pdfData);           pstmt.executeUpdate();
```

```

        System.out.println(n+"Record is Inserted");

    }

    catch(Exception e) {

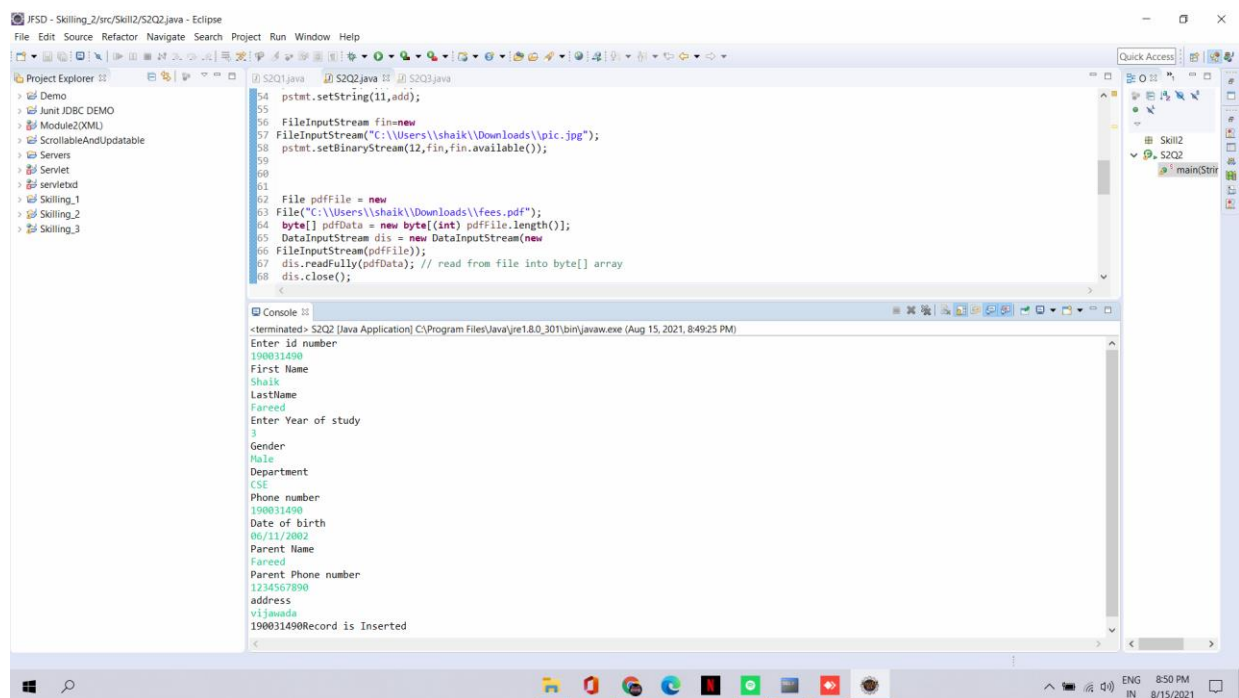
        System.out.println(e);

    }

}

```

Output:



Retrivew details: package skill2;

```
import java.io.FileOutputStream;
```

```
import java.io.FileWriter; import
```

```
java.io.Reader; import java.sql.*; import
java.io.*;

public class retrieve
{

    public static void main(String[] args)throws Exception
    {
        try
        {
            Connection con=null;

            Class.forName("oracle.jdbc.driver.OracleDriver");

            con=DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:xe",
"java","java");

            String qry="select * from Hostle";

            PreparedStatement pstmt=con.prepareStatement(qry);
ResultSet rs=pstmt.executeQuery();
            if(rs.next())
            {
                int id_number=rs.getInt(1);

                String      first_name=rs.getString(2);
String second_name=rs.getString(3);      int
year_of_study=rs.getInt(4);

                String department=rs.getString(5);
```

```
String gender=rs.getString(6);  
String mobile_number=rs.getString(7);  
String date_of_birth=rs.getString(8);  
String parent_name=rs.getString(9);  
String parent_number=rs.getString(10);  
String address=rs.getString(11);
```

```
Blob b=rs.getBlob(12);  
byte barr[]=b.getBytes(12,(int)b.length());
```

```
FileOutputStream fout=new  
FileOutputStream("C:\\Users\\sandy\\Downloads\\google2.0.1.jpg");  
fout.write(barr);
```

```
System.out.println(""+id_number+" "+first_name+" "+second_name+"  
"+year_of_study+" "+department+" "+gender+" "+mobile_number+"  
"+date_of_birth+" "+parent_name+" "+parent_number+" "+address+"");
```

```
}
```

```
}
```



```
catch(Exception e)

{

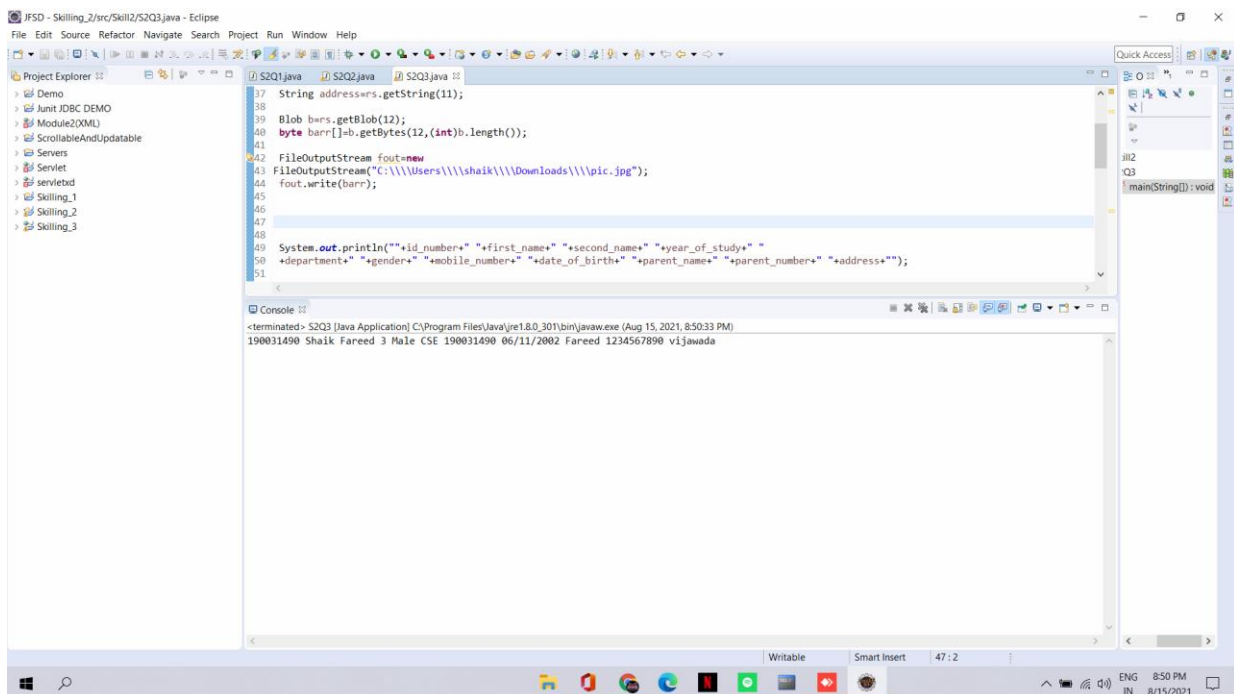
    System.out.println(e);

}

}

}
```

Output:



The screenshot shows the Eclipse IDE interface. The main editor displays a Java file named S2Q3.java with the following code:

```
37 String addressers.getString(11);
38
39 Blob bvers.getBlob(12);
40 byte barr[] = b.getBytes(12, (int) b.length());
41
42 FileOutputStream fout = new
43 FileOutputStream("C:\\\\Users\\\\shaik\\\\Downloads\\\\pic.jpg");
44 fout.write(barr);
45
46
47
48
49 System.out.println("id_number" + "first_name" + "second_name" + "year_of_study" + "
50 department" + "gender" + "mobile_number" + "date_of_birth" + "parent_name" + "parent_number" + "address");
51
```

The Console window at the bottom shows the output of the program:

```
<terminated> S2Q3 [Java Application] C:\Program Files\Java\jre1.8.0_301\bin\javaw.exe (Aug 15, 2021, 8:50:33 PM)
190031490 Shaik Fareed 3 Male CSE 190031490 06/11/2002 Fareed 1234567890 vijawada
```