Oracle - JDBC Connectivity Assignment A8

Required JDk, eclipse, oracle and .jar file

Step 1:

- Open Eclipse
- Create Java Project (File->New->Other->Java Proj->Next->provide Name of Proj->next->Finish)
- Create new class (src->right click->class->name->main method->default package)

Step 2

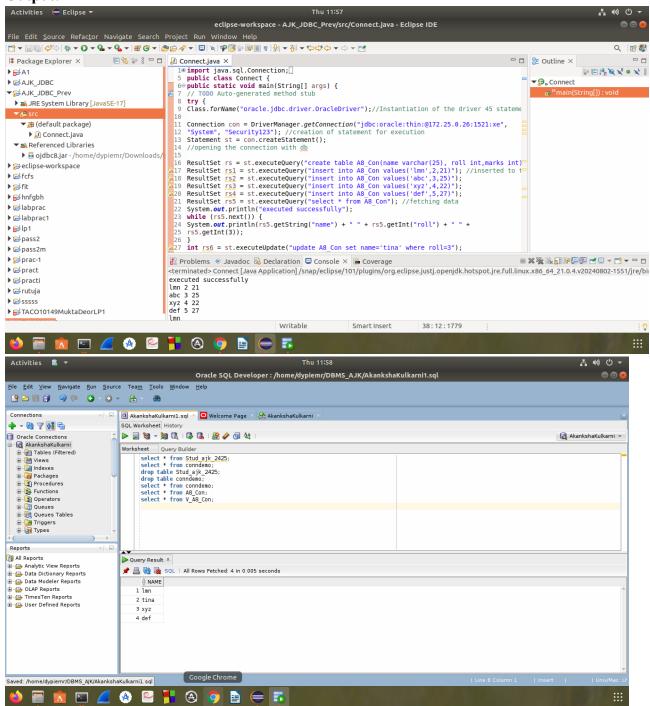
- For adding .jar file ojdbc8.jar
- right click on project->build path->configure build path->java build path->library->classpath->add external jars—-----for adding, path....c->oracle->apps-> then search for .jar.....apply and close.

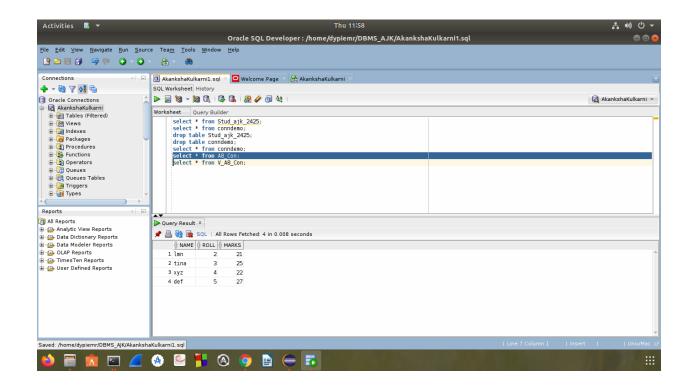
Connect.java (Execute this Connect.java and validate in Oracle)

```
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.ResultSet;
import java.sql.Statement;
public class Connect
public static void main(String[] args)
try
Class.forName("oracle.jdbc.driver.OracleDriver");
Connection con = DriverManager.getConnection("jdbc:oracle:thin:@172.25.0.26:1521:xe",
"System", "Security123");
Statement st = con.createStatement();
ResultSet rs = st.executeQuery("create table A8 Con(name varchar(25), roll int,marks int)");
ResultSet rs1 = st.executeQuery("insert into A8 Con values('lmn',2,21)");
ResultSet rs2 = st.executeQuery("insert into A8 Con values('abc',3,25)");
ResultSet rs3 = st.executeQuery("insert into A8 Con values('xyz',4,22)");
ResultSet rs4 = st.executeQuery("insert into A8 Con values('def',5,27)");
ResultSet rs5 = st.executeQuery("select * from A8 Con"); //fetching data
System.out.println("executed successfully");
while (rs5.next())
```

```
System.out.println(rs5.getString("name") + " " + rs5.getInt("roll") + " " + rs5.getInt(3));
}
int rs6 = st.executeUpdate("update A8_Con set name='tina' where roll=3");
ResultSet rs8 = st.executeQuery("create view V_A8_Con as select name from A8_Con");
ResultSet rs9 = st.executeQuery("select * from V_A8_Con");
while (rs9.next())
{
System.out.println("" + rs9.getString(1));
}
ResultSet rs10 = st.executeQuery("alter table A8_Con add admissionDate Date");
ResultSet rs11 = st.executeQuery("alter table A8_Con drop column admissionDate");
rs.close();
st.close();
st.close();
con.close();
}
catch (Exception ex)
{
System.out.println("Error: " + ex);
}
}
```

Output:





MongoDB - Java Connectivity Assignment B4

Required JDk, eclipse, MongoDB installed and .jar file

Step 1:

- Open Eclipse
- Create Java Project (File->New->Other->Java Proj->Next->provide Name of Proj->next->Finish)
- Create new class (src->right click->class->name->main method->default package)

Step 2

- For adding .jar file mongo-java-driver-2.12.2.jar
- right click on project->build path->configure build path->java build path->library->classpath->add external jars—----for adding, path...mongodb folder .jar.....apply and close.

B4.java (Execute this B4.java and validate in MongoDB)

```
import com.mongodb.*;
public class B4
public static void main( String args[] )
try
MongoClient mongoClient = new MongoClient("localhost", 27017);
DB db = mongoClient.getDB( "ajk" );
System.out.println("Connect to database successfully");
DBCollection col1=db.createCollection("st2",new BasicDBObject());
System.out.println("collection created");
DBCollection col2=db.createCollection("fa2",new BasicDBObject());
System.out.println("collection created");
BasicDBObject doc1 = new BasicDBObject();
doc1.put("Rno", "1");
doc1.put("Name", "AJK");
doc1.put("Marks", "75");
BasicDBObject doc2 = new BasicDBObject();
doc2.put("Rno", "2");
doc2.put("Name", "QWE");
```

```
doc2.put("Marks", "80");
col1.insert(new BasicDBObject[] {doc1,doc2});
catch(Exception e)
System.err.println( e.getClass().getName() + ": " + e.getMessage() );
Output:
(base) dypiemr@dypiemr-OptiPlex-3020:~$ mongo
> show databases
admin 0.000GB
     0.000GB
aj
ajk 0.000GB
config 0.000GB
local 0.000GB
myDb 0.000GB
test 0.000GB
> use ajk
switched to db ajk
> show collections
fa1
fa2
st1
st2
> db.st2.find().pretty();
       " id": ObjectId("66ff8855848e88f93789438f"),
       "Rno": "1",
       "Name": "AJK",
       "Marks": "75"
       " id": ObjectId("66ff8855848e88f937894390"),
```

```
"Rno": "2",
       "Name" : "QWE",
       "Marks": "80"
}
Menu Driven Program:
import java.net.UnknownHostException;
import java.util.Scanner;
import com.mongodb.*;
public class MDB
       private static void choice input()
              System.out.println("\n1.insert \n2.update \n3.delete \n4.show \n5.Exit");
public static void main(String[] args)
       String key, value;
       Scanner <u>scanner</u> = new Scanner(System.in);
       int choice;
       try
       {
              Mongo mongo = new Mongo("localhost", 27017);
              DB db = mongo.getDB("AJK MDB");
              DBCollection collection = db.getCollection("Student mdb");
              do
                     choice input();
                     System.out.println("Enter your choice: ");
                     choice = scanner.nextInt();
                     switch (choice)
                      {
                             case 1:
                                    BasicDBObject document = new BasicDBObject();
                                    String ch;
                                    do
                                    {
                                           System.out.println("Enter key: ");
                                           key = scanner.next();
```

```
System.out.println("Enter value: ");
              value = scanner.next();document.put(key, value);
              System.out.println("Do
                                        you
                                               want
                                                       to
                                                            enter
              ch = scanner.next();
       }
       while (!ch.equals("n"));
       collection.insert(document);
       break:
case 2:
       BasicDBObject searchObj = new BasicDBObject();
       System.out.println("Enter searched key: ");
       key = scanner.next();
       System.out.println("Enter searched value: ");
       value = scanner.next();
       searchObj.put(key, value);
       BasicDBObject newObj = new BasicDBObject();
       System.out.println("Enter new key: ");
       key = scanner.next();
       System.out.println("Enter new value: ");
       value = scanner.next();
       newObj.put(key, value);
       collection.update(searchObj, newObj);
       break;
case 3:
       System.out.println("Enter removable key: ");
       key = scanner.next();
       System.out.println("Enter removable value: ");
       value = scanner.next();
       BasicDBObject removableObj = new BasicDBObject();
       removableObj.put(key, value);
       collection.remove(removableObj);
       break;
case 4:
       DBCursor cursorDoc = collection.find();
       while (cursorDoc.hasNext())
              System.out.println(cursorDoc.next());
       break;
```

more(y/n)?");

Output:

```
File Edit View Search Terminal Help
> show databases
AJK_MDB 0.000GB
admin
         0.000GB
аj
         0.000GB
ajk
         0.000GB
config
         0.000GB
local
         0.000GB
myDb
         0.000GB
test
         0.000GB
> use AJK_MDB
switched to db AJK MDB
> show collections
Student mdb
> db.Student_mdb.find().pretty();
        "_id" : ObjectId("66ffbca9848e845b1b59c499"),
        "name" : "Abc",
        "rno" : "11",
        "att" : "80"
        "_id" : ObjectId("66ffbcd0848e845b1b59c49a"),
        "name" : "cvv",
        "rno": "56",
        "att" : "67"
```