UNIVERSITE CADI AYYAD جامعة القاضي عياض
MARRAKECH مراكش

المدرسة العليا للتكنولوجيا الصويرة
L'ÉCOLE SUPÉRIEURE DE TECHNOLOGIE – ESSAOUIRA

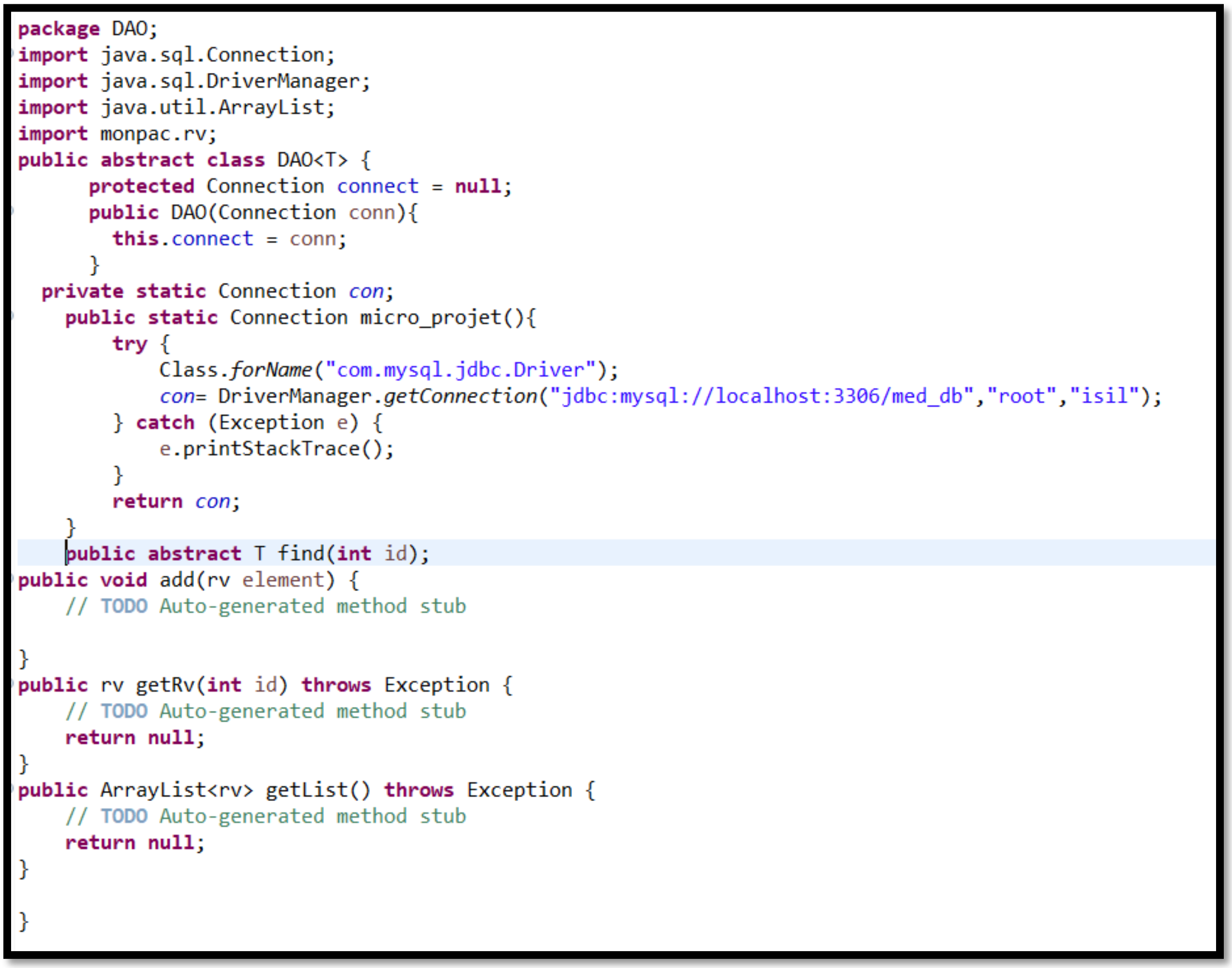
Rapport Micro-projet

Réaliser par : Meriem AFTIMI Encadrer par : Pr. Fahd KARAMI

Année : 2019 /2020

DAO:

Data Access Object. C'est un modèle de conception qui propose de découpler l'accès à une source de données. Dans mon cas:



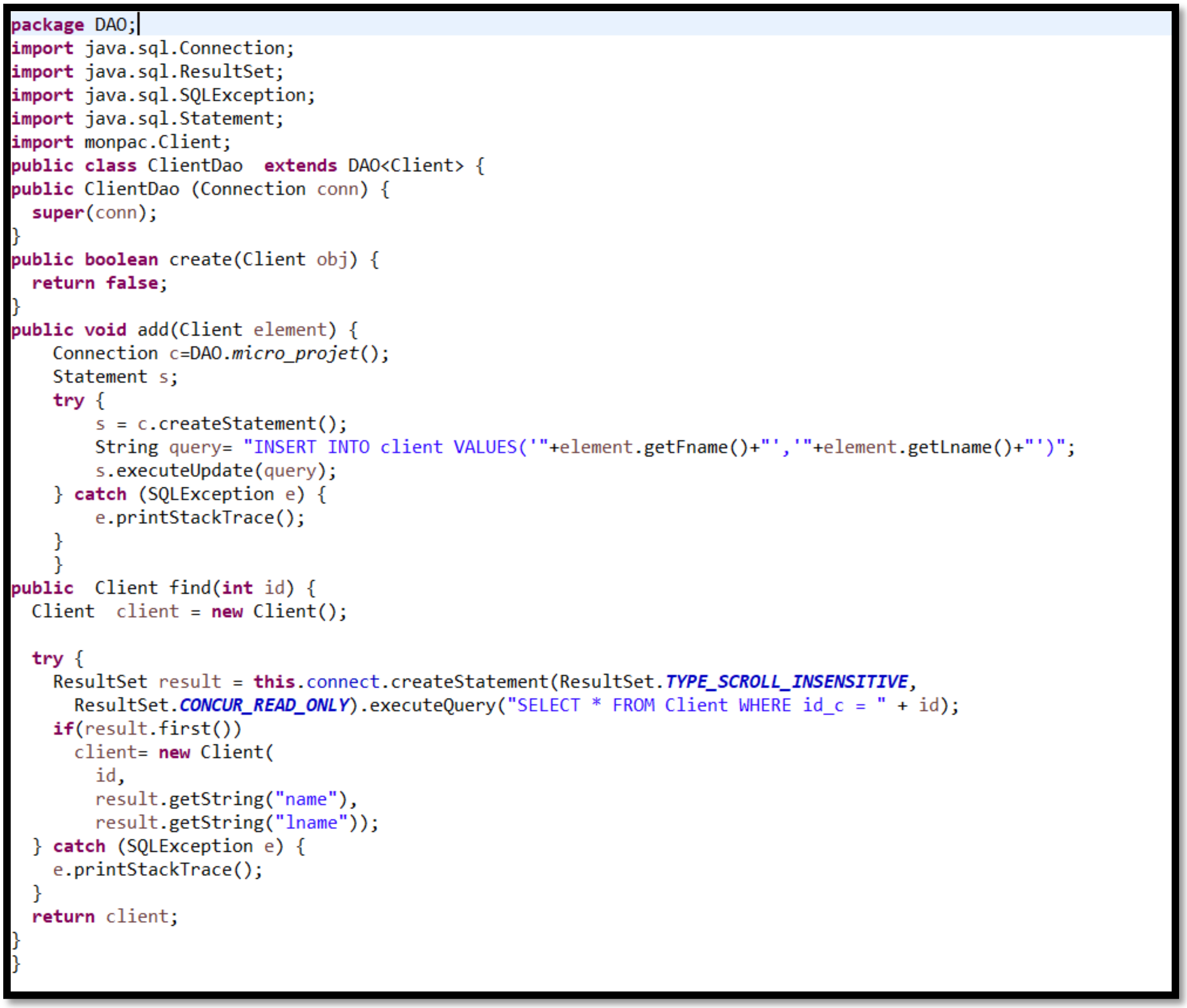
```
package DAO;
import java.sql.Connection;
import java.sql.DriverManager;
import java.util.ArrayList;
import monpac.rv;
public abstract class DAO<T> {
      protected Connection connect = null;
      public DAO(Connection conn){
        this.connect = conn;
      }
  private static Connection con;
    public static Connection micro_projet(){
        try {
            Class.forName("com.mysql.jdbc.Driver");
            con= DriverManager.getConnection("jdbc:mysql://localhost:3306/med_db","root","isil");
        } catch (Exception e) {
            e.printStackTrace();
        }
        return con;
    }
    public abstract T find(int id);
public void add(rv element) {
    // TODO Auto-generated method stub

}
public rv getRv(int id) throws Exception {
    // TODO Auto-generated method stub
    return null;
}
public ArrayList<rv> getList() throws Exception {
    // TODO Auto-generated method stub
    return null;
}

}
```

Figure 1 :Classe Dao

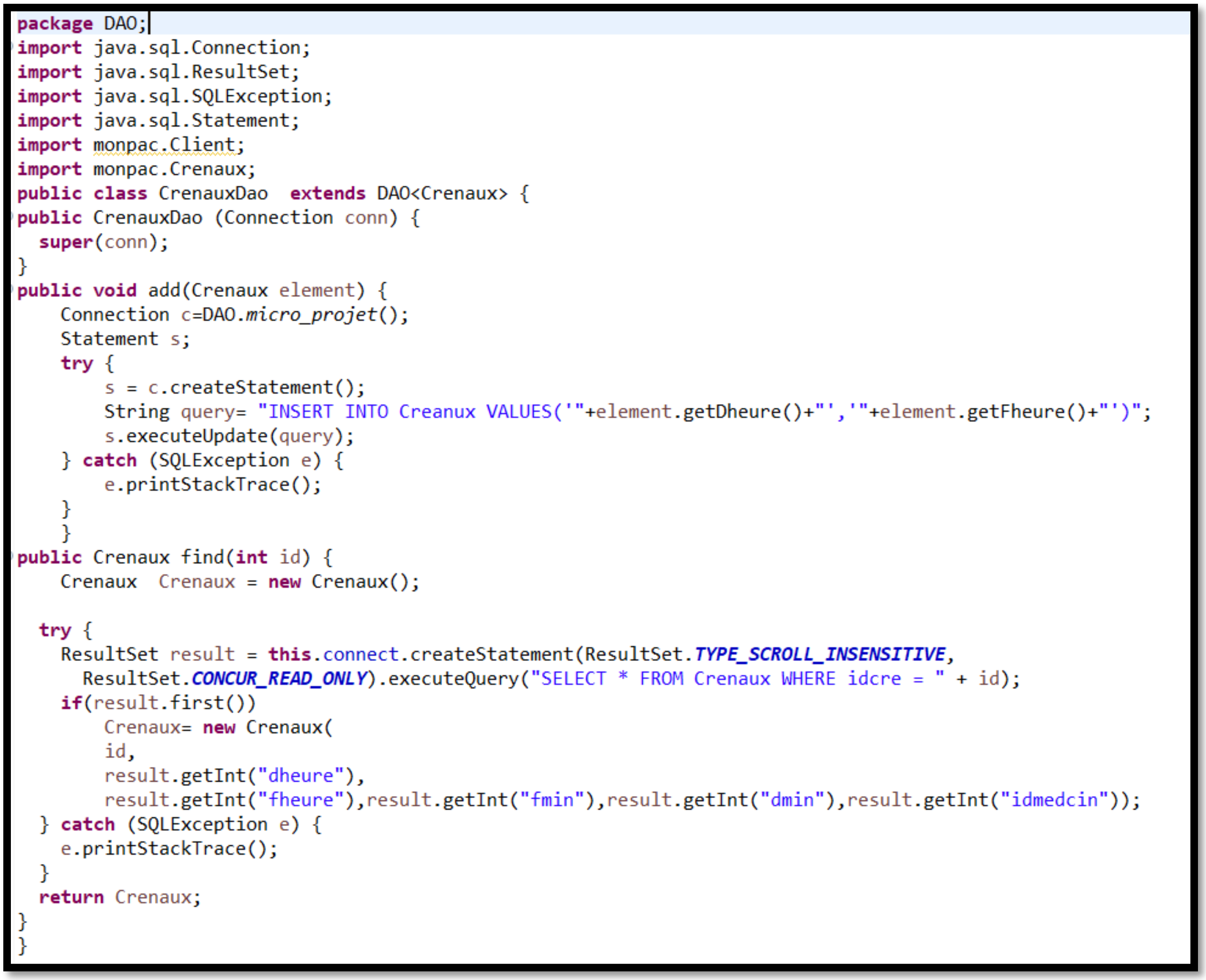
• j’ai fait les classes « ClienDao, MedcinDao,CrenauxDao, RvDao » qui hérite de la classe DAO et qui permet la gestion des clients , médecins , créneaux , et réservation enregistrés dans la base de données suivante:



```
package DAO;
import java.sql.Connection;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.sql.Statement;
import monpac.Client;
public class ClientDao  extends DAO<Client> {
public ClientDao (Connection conn) {
  super(conn);
}
public boolean create(Client obj) {
  return false;
}
public void add(Client element) {
    Connection c=DAO.micro_projet();
    Statement s;
    try {
        s = c.createStatement();
        String query= "INSERT INTO client VALUES('"+element.getFname()+"','"+element.getLname()+"')";
        s.executeUpdate(query);
    } catch (SQLException e) {
        e.printStackTrace();
    }
    }
public  Client find(int id) {
  Client  client = new Client();

  try {
    ResultSet result = this.connect.createStatement(ResultSet.TYPE_SCROLL_INSENSITIVE,
      ResultSet.CONCUR_READ_ONLY).executeQuery("SELECT * FROM Client WHERE id_c = " + id);
    if(result.first())
      client= new Client(
        id,
        result.getString("name"),
        result.getString("lname"));
  } catch (SQLException e) {
    e.printStackTrace();
  }
  return client;
}
}
```

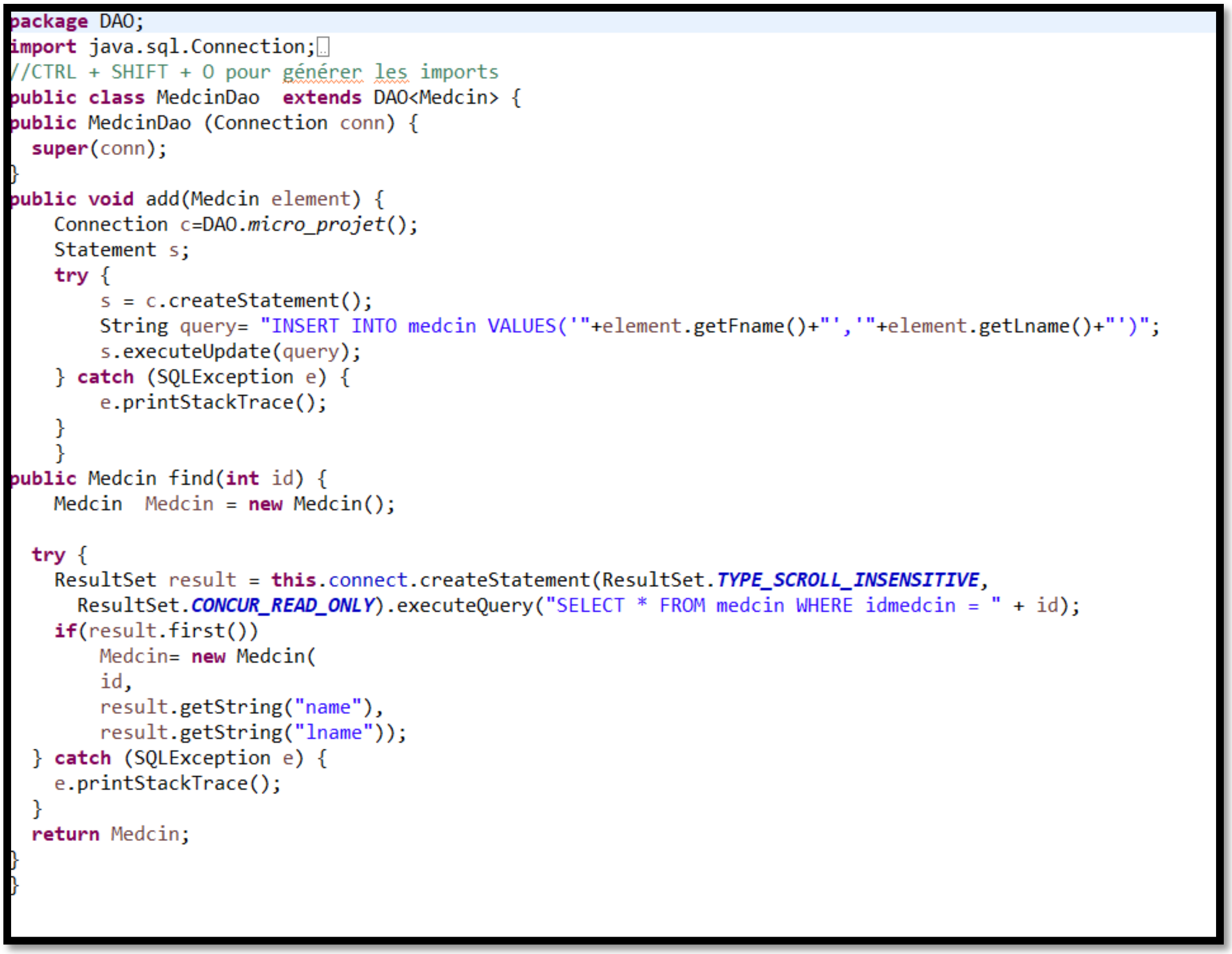
Figure 2 :Classe Client Dao



```
package DAO;
import java.sql.Connection;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.sql.Statement;
import monpac.Client;
import monpac.Crenaux;
public class CrenauxDao  extends DAO<Crenaux> {
public CrenauxDao (Connection conn) {
  super(conn);
}
public void add(Crenaux element) {
    Connection c=DAO.micro_projet();
    Statement s;
    try {
        s = c.createStatement();
        String query= "INSERT INTO Creanux VALUES('"+element.getDheure()+"','"+element.getFheure()+"')";
        s.executeUpdate(query);
    } catch (SQLException e) {
        e.printStackTrace();
    }
    }
public Crenaux find(int id) {
    Crenaux  Crenaux = new Crenaux();

  try {
    ResultSet result = this.connect.createStatement(ResultSet.TYPE_SCROLL_INSENSITIVE,
      ResultSet.CONCUR_READ_ONLY).executeQuery("SELECT * FROM Crenaux WHERE idcre = " + id);
    if(result.first())
        Crenaux= new Crenaux(
        id,
        result.getInt("dheure"),
        result.getInt("fheure"),result.getInt("fmin"),result.getInt("dmin"),result.getInt("idmedcin"));
  } catch (SQLException e) {
    e.printStackTrace();
  }
  return Crenaux;
}
}
```

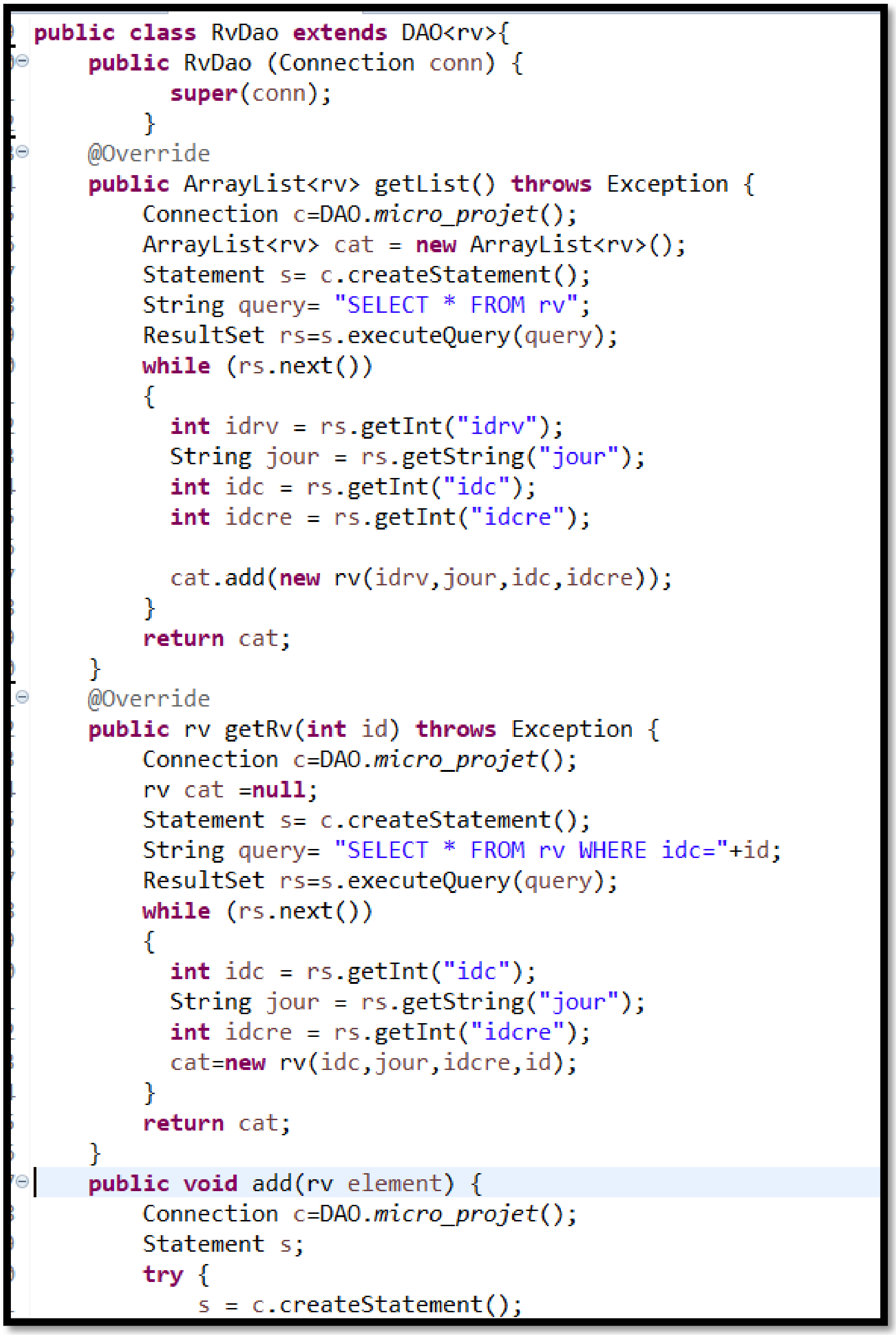
Figure 3: Classe CrenauxDao



```java
package DAO;
import java.sql.Connection;
//CTRL + SHIFT + O pour générer les imports
public class MedcinDao  extends DAO<Medcin> {
public MedcinDao (Connection conn) {
  super(conn);
}
public void add(Medcin element) {
    Connection c=DAO.micro_projet();
    Statement s;
    try {
        s = c.createStatement();
        String query= "INSERT INTO medcin VALUES('"+element.getFname()+"','"+element.getLname()+"')";
        s.executeUpdate(query);
    } catch (SQLException e) {
        e.printStackTrace();
    }
    }
public Medcin find(int id) {
    Medcin  Medcin = new Medcin();

  try {
    ResultSet result = this.connect.createStatement(ResultSet.TYPE_SCROLL_INSENSITIVE,
      ResultSet.CONCUR_READ_ONLY).executeQuery("SELECT * FROM medcin WHERE idmedcin = " + id);
    if(result.first())
        Medcin= new Medcin(
        id,
        result.getString("name"),
        result.getString("lname"));
  } catch (SQLException e) {
    e.printStackTrace();
  }
  return Medcin;
}
}
```

Figure 4: classe medcinDao

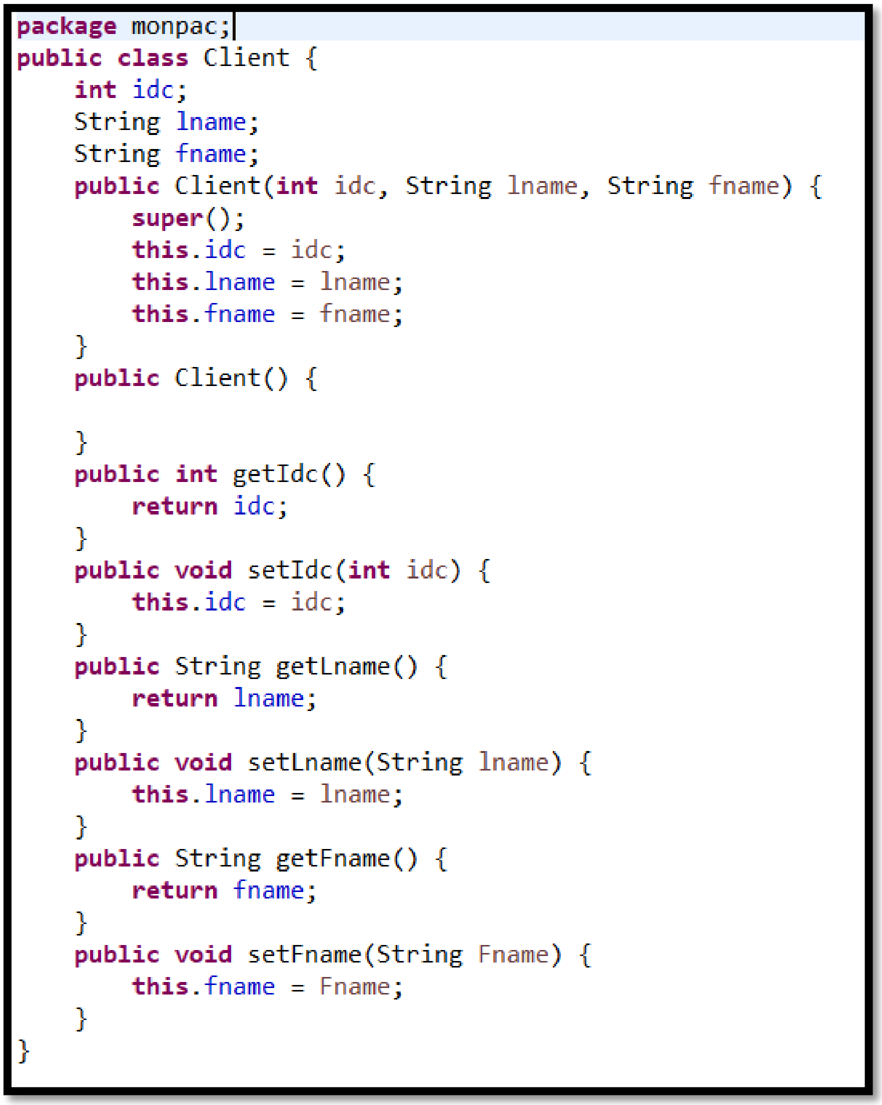


```
public class RvDao extends DAO<rv>{
    public RvDao (Connection conn) {
            super(conn);
        }
    @Override
    public ArrayList<rv> getList() throws Exception {
        Connection c=DAO.micro_projet();
        ArrayList<rv> cat = new ArrayList<rv>();
        Statement s= c.createStatement();
        String query= "SELECT * FROM rv";
        ResultSet rs=s.executeQuery(query);
        while (rs.next())
        {
          int idrv = rs.getInt("idrv");
          String jour = rs.getString("jour");
          int idc = rs.getInt("idc");
          int idcre = rs.getInt("idcre");

          cat.add(new rv(idrv,jour,idc,idcre));
        }
        return cat;
    }
    @Override
    public rv getRv(int id) throws Exception {
        Connection c=DAO.micro_projet();
        rv cat =null;
        Statement s= c.createStatement();
        String query= "SELECT * FROM rv WHERE idc="+id;
        ResultSet rs=s.executeQuery(query);
        while (rs.next())
        {
          int idc = rs.getInt("idc");
          String jour = rs.getString("jour");
          int idcre = rs.getInt("idcre");
          cat=new rv(idc,jour,idcre,id);
        }
        return cat;
    }
    public void add(rv element) {
        Connection c=DAO.micro_projet();
        Statement s;
        try {
            s = c.createStatement();
```

Figure 5 classe rv Dao

- ## La classe client:

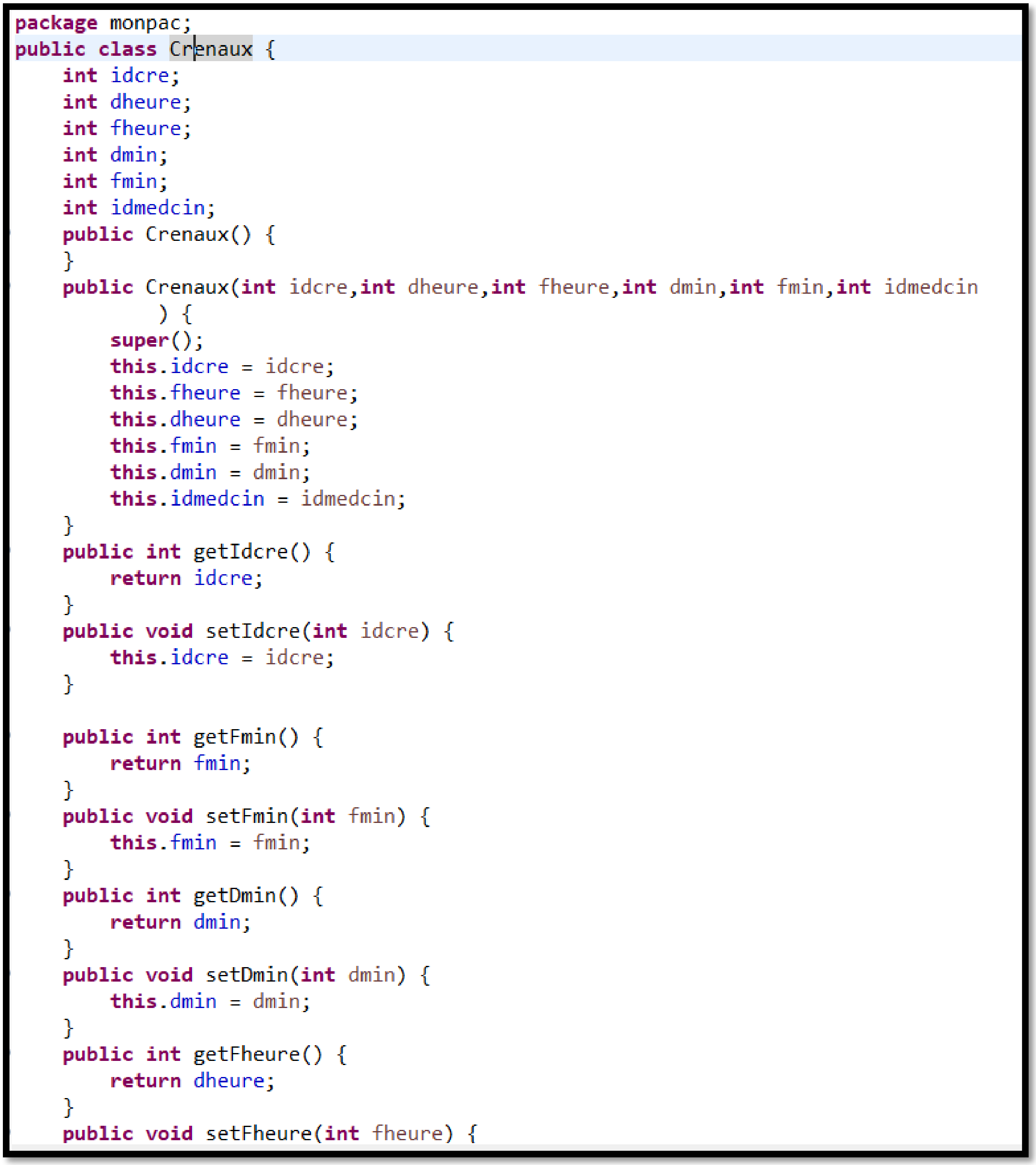


```java
package monpac;
public class Client {
    int idc;
    String lname;
    String fname;
    public Client(int idc, String lname, String fname) {
        super();
        this.idc = idc;
        this.lname = lname;
        this.fname = fname;
    }
    public Client() {

    }
    public int getIdc() {
        return idc;
    }
    public void setIdc(int idc) {
        this.idc = idc;
    }
    public String getLname() {
        return lname;
    }
    public void setLname(String lname) {
        this.lname = lname;
    }
    public String getFname() {
        return fname;
    }
    public void setFname(String Fname) {
        this.fname = Fname;
    }
}
```

Figure 6 :Classe Client

- La classe Crenaux

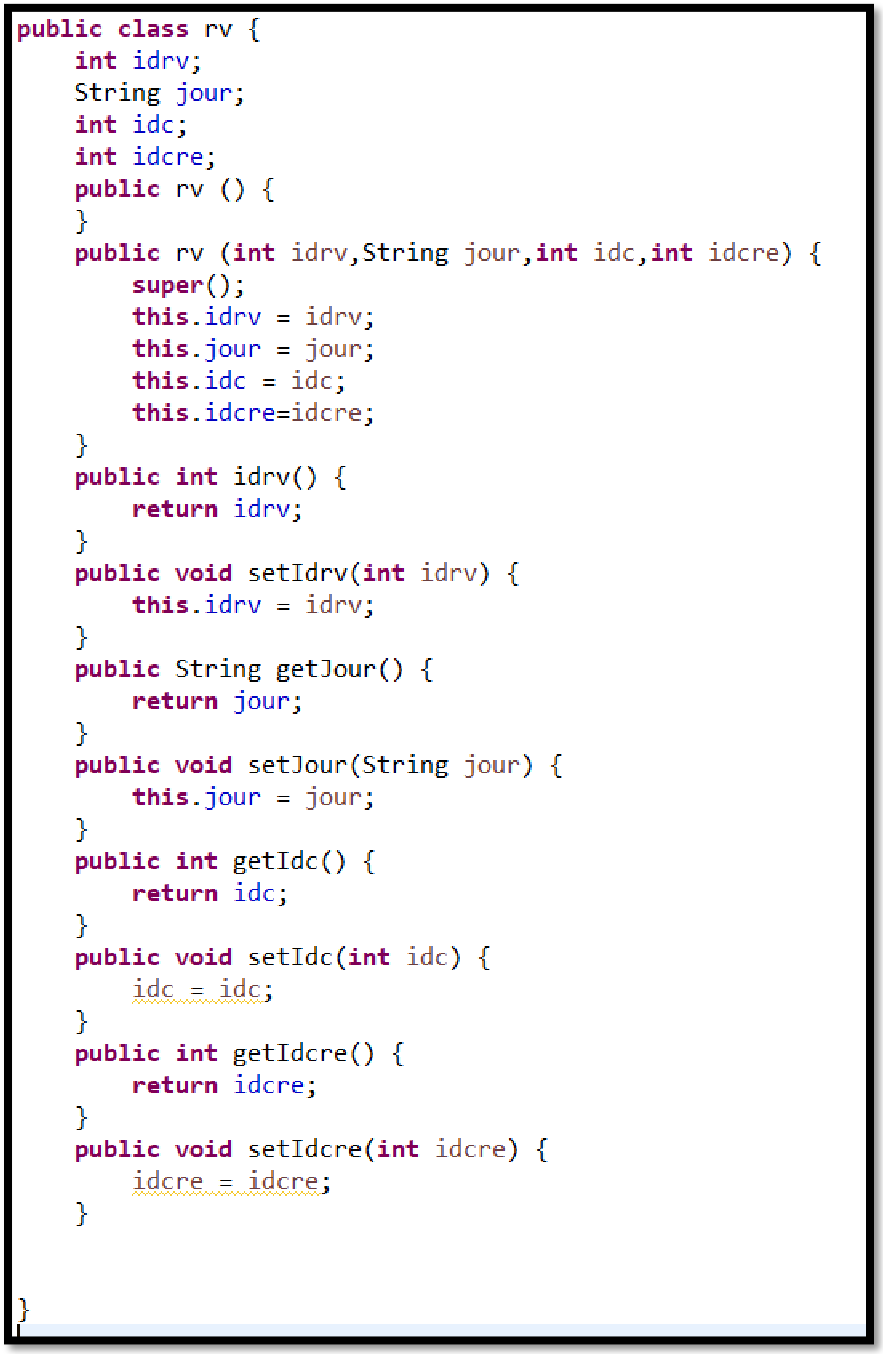


```
package monpac;
public class Crenaux {
    int idcre;
    int dheure;
    int fheure;
    int dmin;
    int fmin;
    int idmedcin;
    public Crenaux() {
    }
    public Crenaux(int idcre,int dheure,int fheure,int dmin,int fmin,int idmedcin
            ) {
        super();
        this.idcre = idcre;
        this.fheure = fheure;
        this.dheure = dheure;
        this.fmin = fmin;
        this.dmin = dmin;
        this.idmedcin = idmedcin;
    }
    public int getIdcre() {
        return idcre;
    }
    public void setIdcre(int idcre) {
        this.idcre = idcre;
    }

    public int getFmin() {
        return fmin;
    }
    public void setFmin(int fmin) {
        this.fmin = fmin;
    }
    public int getDmin() {
        return dmin;
    }
    public void setDmin(int dmin) {
        this.dmin = dmin;
    }
    public int getFheure() {
        return dheure;
    }
    public void setFheure(int fheure) {
```

Figure 7 :Classe Crenaux

- La classe rv



```
public class rv {
    int idrv;
    String jour;
    int idc;
    int idcre;
    public rv () {
    }
    public rv (int idrv,String jour,int idc,int idcre) {
        super();
        this.idrv = idrv;
        this.jour = jour;
        this.idc = idc;
        this.idcre=idcre;
    }
    public int idrv() {
        return idrv;
    }
    public void setIdrv(int idrv) {
        this.idrv = idrv;
    }
    public String getJour() {
        return jour;
    }
    public void setJour(String jour) {
        this.jour = jour;
    }
    public int getIdc() {
        return idc;
    }
    public void setIdc(int idc) {
        idc = idc;
    }
    public int getIdcre() {
        return idcre;
    }
    public void setIdcre(int idcre) {
        idcre = idcre;
    }


}
```

Figure 8 ;classe rv

- La base donnée Mysql utilisée :

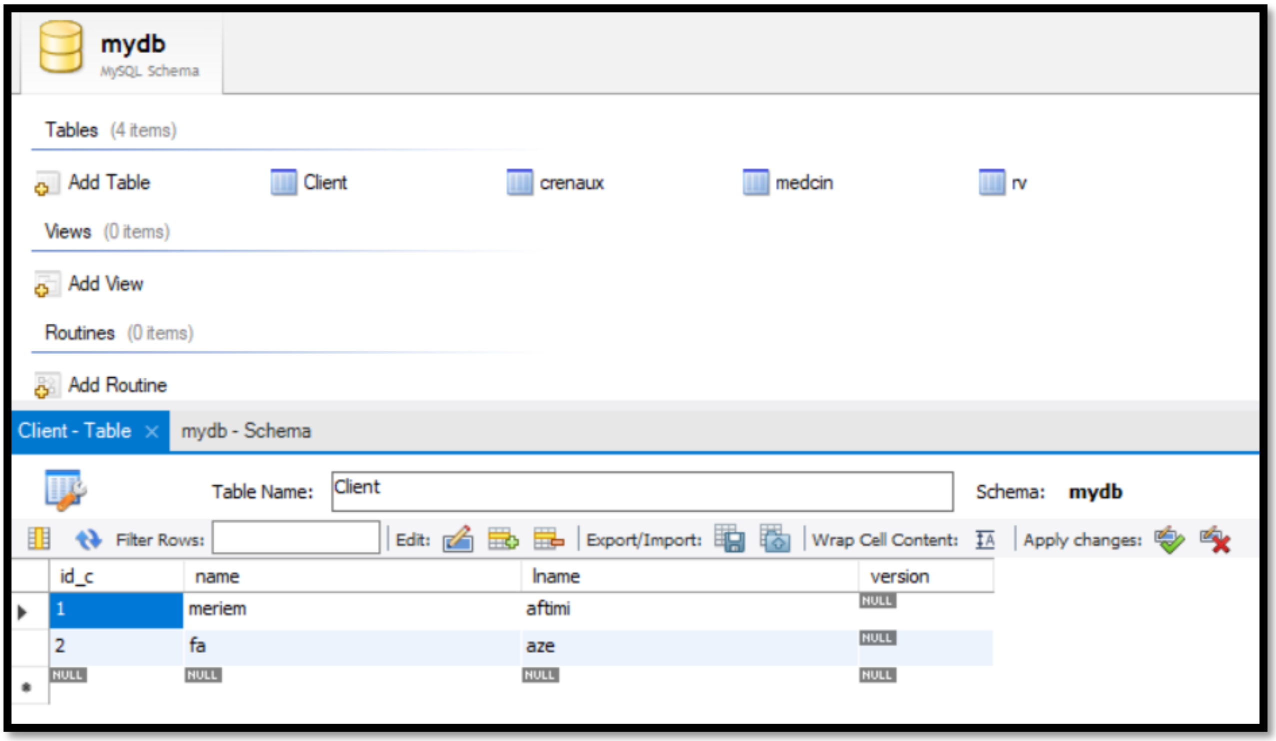


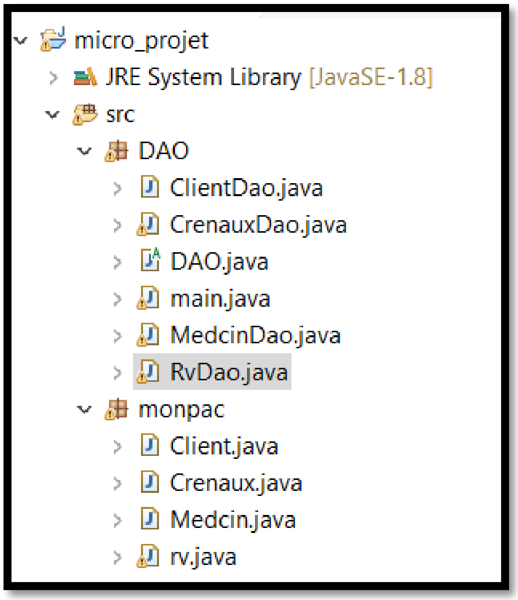
Table Name: Client

Schema: mydb

id_c	name	lname	version
1	meriem	aftimi	NULL
2	fa	aze	NULL
NULL	NULL	NULL	NULL

Figure 9 : La base donnée med_bd

- La hiérarchie du projet :



- micro_projet
  - JRE System Library [JavaSE-1.8]
  - src
    - DAO
      - ClientDao.java
      - CrenauxDao.java
      - DAO.java
      - main.java
      - MedcinDao.java
      - RvDao.java
    - monpac
      - Client.java
      - Crenaux.java
      - Medcin.java
      - rv.java

Figure 10 :l-hyarchie du projet