```java
package DBLayer;
import java.sql.*;
import java.util.ArrayList;
import ModelLayer.*;

   public class DBMink implements IFDBMink
   {
   private Connection con;

   public int createMink(Mink mink) throws Exception
   {
         int rc = -1;
         String query = "INSERT INTO mfMink(color, furLength,
         furDensity, birthdate, qualityType, cageNr) VALUES ('"+
                     mink.getColor() + "', '" +
                     mink.getFurLength() + "', '" +
                     mink.getFurDensity() + "', '" +
                     mink.getBirthDate() + "', '" +
                     mink.getQualityType() + "', '" +
                     mink.getCageNr() + "')";
         System.out.println("insert : " + query);

         try
         {
               Statement stmt = con.createStatement();
               stmt.setQueryTimeout(5);
               rc = stmt.executeUpdate(query);
               stmt.close();
         }
         catch(SQLException ex)
         {
               System.out.println("Mink er ikke oprettet");
               throw new Exception("Mink er ikke tilføjet");
         }
         return (rc);
   }

   public int updateMink(Mink mink)
   {
         Mink minkobj = mink;
         int rc= -1;

         String qry = "UPDATE mfMink SET" +
                     "color = '" + minkobj.getColor()+"', " +
                     "furLength ='" + minkobj.getFurLength() + "', " +
                     "furDensity ='" + minkobj.getFurDensity() + "', " +
                     "birthdate ='" + minkobj.getBirthDate() + "', " +
                     "qualityType ='" + minkobj.getQualityType() + "', " +
                     "cageNr ='" + minkobj.getCageNr() + "',";


                     System.out.println("Update query: " + qry);
                     try
                     {
                           Statement stmt = con.createStatement();
                           stmt.setQueryTimeout(5);
                           rc = stmt.executeUpdate(qry);

                           stmt.close();
                     }
                     catch(Exception ex)
                     {
                           System.out.println("Update exception in Mink db: " + ex)
```

```
                        ;
                  }
                  return(rc);
}

public int deleteMink(int cageNr)
{
      int rc =-1;

      String qry = "DELETE FROM mfMink WHERE phoneno = '" +
      cageNr + "'";
      System.out.println(qry);
      try
      {
            Statement stmt = con.createStatement();
            stmt.setQueryTimeout(5);
            rc = stmt.executeUpdate(qry);
            stmt.close();
      }
       catch(Exception ex)
       {
                  System.out.println("Delete exception in Mink db: "+ex)
                  ;
       }
      return(rc);
}

public String buildQuery(String wClause)
{
      String qry = "SELECT color, furLength, furDensity,
      birthDate, qualityType, cageNr";
      if(wClause.length()>0)
            qry=qry + "WHERE" + wClause;
      return qry;
}

public Mink singleWhere(String wClause, boolean
retrieveAssociation)
{
      ResultSet results;
      Mink minkobj = new Mink();
      String query = buildQuery(wClause);
      System.out.println(query);

      try
      {
            Statement stmt = con.createStatement();
            stmt.setQueryTimeout(5);
            results = stmt.executeQuery(query);

            if(results.next())
            {
                  minkobj = buildMink(results);
            }
            stmt.close();
      }
      catch(Exception e)
      {
            System.out.println("Query exception: " + e);
      }
      return minkobj;
}

private Mink buildMink(ResultSet results)
```

```java
  {
        Mink minkObj = new Mink();
        try
        {
              minkObj.setColor(results.getString("color"));
              minkObj.setFurLength(results.getInt("furLength"));
              minkObj.setFurDensity(results.getInt("furDensity"));
              minkObj.setBirthDate(results.getString("birthDate"));
              minkObj.setQualityType(results.getString("qualityType"));
              minkObj.setCageNr(results.getInt("cageNr"));

        }
        catch(Exception e)
        {
              System.out.println("Error in building cage");
        }
        return minkObj;

  }

}
```