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Question 7)

```
static Object toEntityClass(ResultSet resultSet,BeanInfo beanInfo,Constructor<?>
constructor) throws SQLException {
      var instance = Utils.newInstance(constructor);
      for(var property : beanInfo.getPropertyDescriptors()) {
        //We call the setter with the correct value from the resultSet
        var setterValue = resultSet.getObject(property.getName());
        var setter = property.getWriteMethod();
        Utils.invokeMethod(instance, setter, setterValue);
      }
      return instance;
   }
    static List<Object> findAll(Connection connection, String sqlQuery, BeanInfo
beanInfo,Constructor<?> constructor) throws SQLException{
      var list = new ArrayList<>();
      try(var statement = connection.prepareStatement(sqlQuery)) {
        try(var resultSet = statement.executeQuery()) {
          while(resultSet.next()) {
            var instance = toEntityClass(resultSet, beanInfo, constructor);
            list.add(instance);
          }
          return list;
        }
      }
  }
```

Question 8)

```
public static String createSaveQuery(String tableName, BeanInfo beanInfo) {
   var insertInto = "INSERT INTO "+tableName+" ";
   var columns = Arrays.stream(beanInfo.getPropertyDescriptors())
        .filter(property -> !property.getName().equals("class"))
        .map(ORM::findColumnName)
        .collect(Collectors.joining(",","(",")"));

//we need to add a (?) in the values for each columns
```

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```
var values = Arrays.stream(beanInfo.getPropertyDescriptors())
            .filter(property -> !property.getName().equals("class"))
            .map(property -> "?")
            .collect(Collectors.joining(",","(",")"));
    return insertInto + columns + " VALUES " + values;
 }
 public static Object save(Connection connection, String tableName, BeanInfo
beanInfo,Object bean,PropertyDescriptor idProperty) throws SQLException {
   var query = createSaveQuery(tableName, beanInfo);
   try(var statement = connection.prepareStatement(query)) {
      for(var property : beanInfo.getPropertyDescriptors()) {
        var columnIndex = 1; //we start at 1 for the column index
        if(property.getName().equals("class")) {
          continue;
       var value = Utils.invokeMethod(bean,getGetterMethod(property));
        statement.setObject(columnIndex++,value);
      }
    }
   return bean;
 }
```