ORMFramework

Description

An object relational mappings i.e ORM is a framework that gives facilities related to SQL on backend to ease data layer work. The framework is developed in Java and having usage of Java's Reflection API & Collections Framework. User who is using the ORM Framework doesn't need to bother about writing hundred's of thousand's of SQL code to push & pull data from database. Along with this, user doesn't need to worry about writing POJO (Entity) classes with appropriate annotatins. Our framework will take care of creating POJO's all from scratch just by analyzing Tables & will do proper structuring along with class level & field level annotations.

Features

- POJO Generator
- Custom Annotations
- Overcomes the headache of writing SQL
- Single JAR availability so you just have to include it in classpath & do magic

Installing

- Install JDK 1.8 on your local machine
- Download the ORM.jar from master branch & put it in your libs of working directory
- Install MYSQL version 8 to overcome some minor bugs & errors
- Include ORM.jar at compile time & runtime
- Create conf.json file in current working directory having JSON formatting similar to conf.json of master branch

Test Cases

Save

```
DataManager dataManager=new DataManager();
dataManager.begin();
Vehicle vehicle=new Vehicle();
vehicle.setCode(101);
```

```
vehicle.setName("Sonet");
vehicle.setBrandName("Kia");
vehicle.setColor("Red");
dataManager.save(vehicle);
dataManager.end();
```

Update

```
DataManager dataManager=new DataManager();
dataManager.begin();
Animal animal=new Animal();
animal.setName("Turtle Hanky");
animal.setType("Reptile");
animal.setAge(53);
dataManager.update(animal);
dataManager.end();
```

Delete

Select

Select Using Statement

```
DataManager dataManager=new DataManager();
dataManager.begin();
List<Object> animals=dataManager.select(new Animal()).fire();
for(Object object:animals)
{
Animal animal=(Animal) object;
System.out.println("Name : "+animal.getName());
System.out.println("Type : "+animal.getType());
System.out.println("Age : "+animal.getAge());
}
dataManager.end();
```

Select Using Prepared Statement

```
DataManager dataManager=new DataManager();
dataManager.begin();
List<Object> vehicles=dataManager.select(new
Vehicle()).where("vehicleCode").eq(101).fire(); //eq for equals
dataManager.end();
DataManager dataManager=new DataManager();
dataManager.begin();
List<Object> vehicles=dataManager.select(new
Vehicle()).where("vehicleCode").ne(101).fire(); //ne for not equals
dataManager.end();
DataManager dataManager=new DataManager();
dataManager.begin();
List<Object> vehicles=dataManager.select(new
Vehicle()).where("vehiclePrice").lt(1500000).fire(); //lt for less than
dataManager.end();
DataManager dataManager=new DataManager();
dataManager.begin();
List<Object> vehicles=dataManager.select(new
Vehicle()).where("vehiclePrice").gt(2000000).fire(); //gt for greater than
dataManager.end();
DataManager dataManager=new DataManager();
dataManager.begin();
List<Object> vehicles=dataManager.select(new
Vehicle()).where("vehiclePrice").le(7000000).fire(); //le for less than equal
to
dataManager.end();
DataManager dataManager=new DataManager();
dataManager.begin();
List<Object> vehicles=dataManager.select(new
Vehicle()).where("vehiclePrice").ge(7000000).fire(); //ge for greater than
equal to
dataManager.end();
```

Version History

- 0.2 Upcoming
 - Logger facility
- 0.1
 - o Initial Release

Acknowledgments

- https://github.com/google/gson
- https://docs.oracle.com