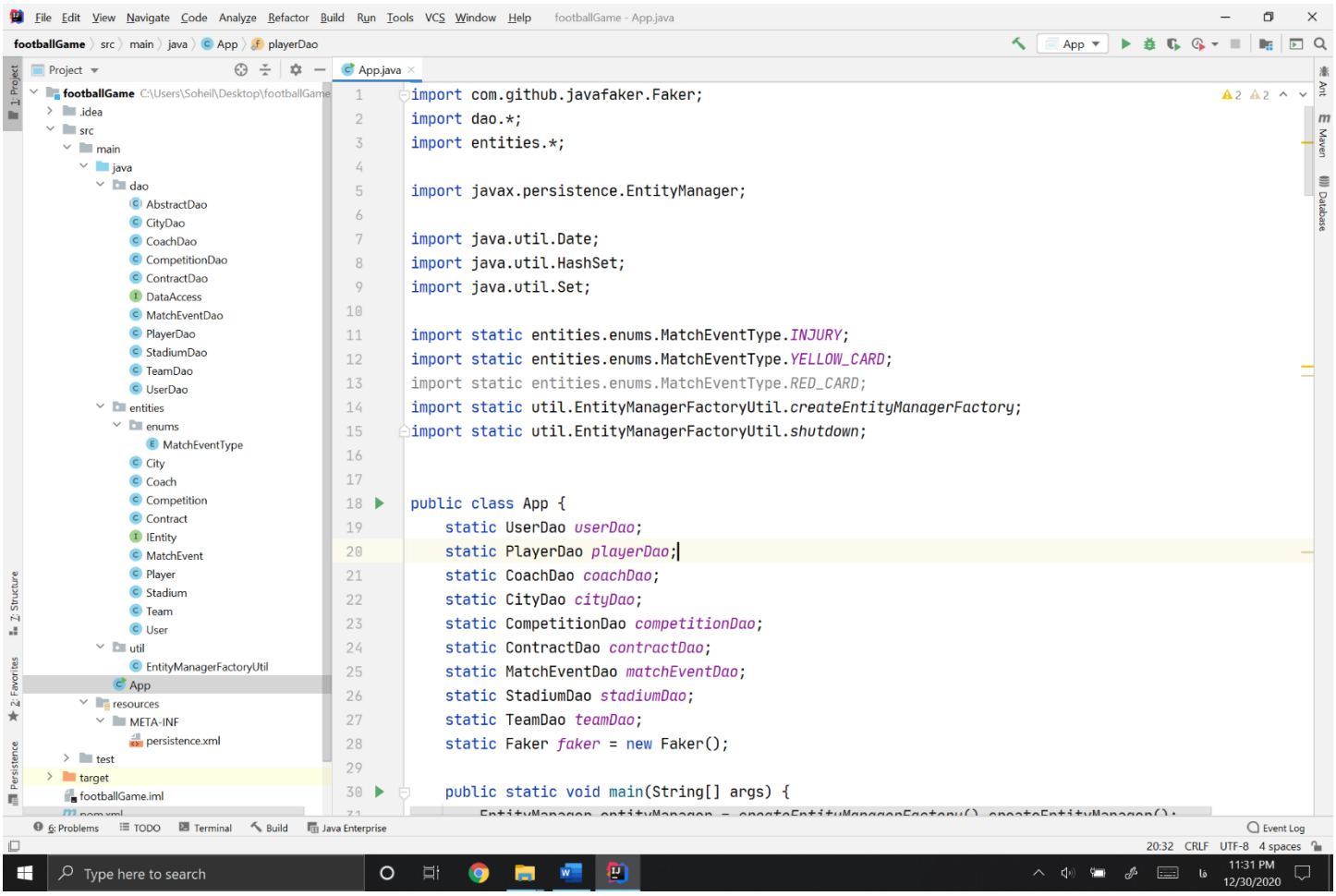
به نام خداوند بخشنده مهربان

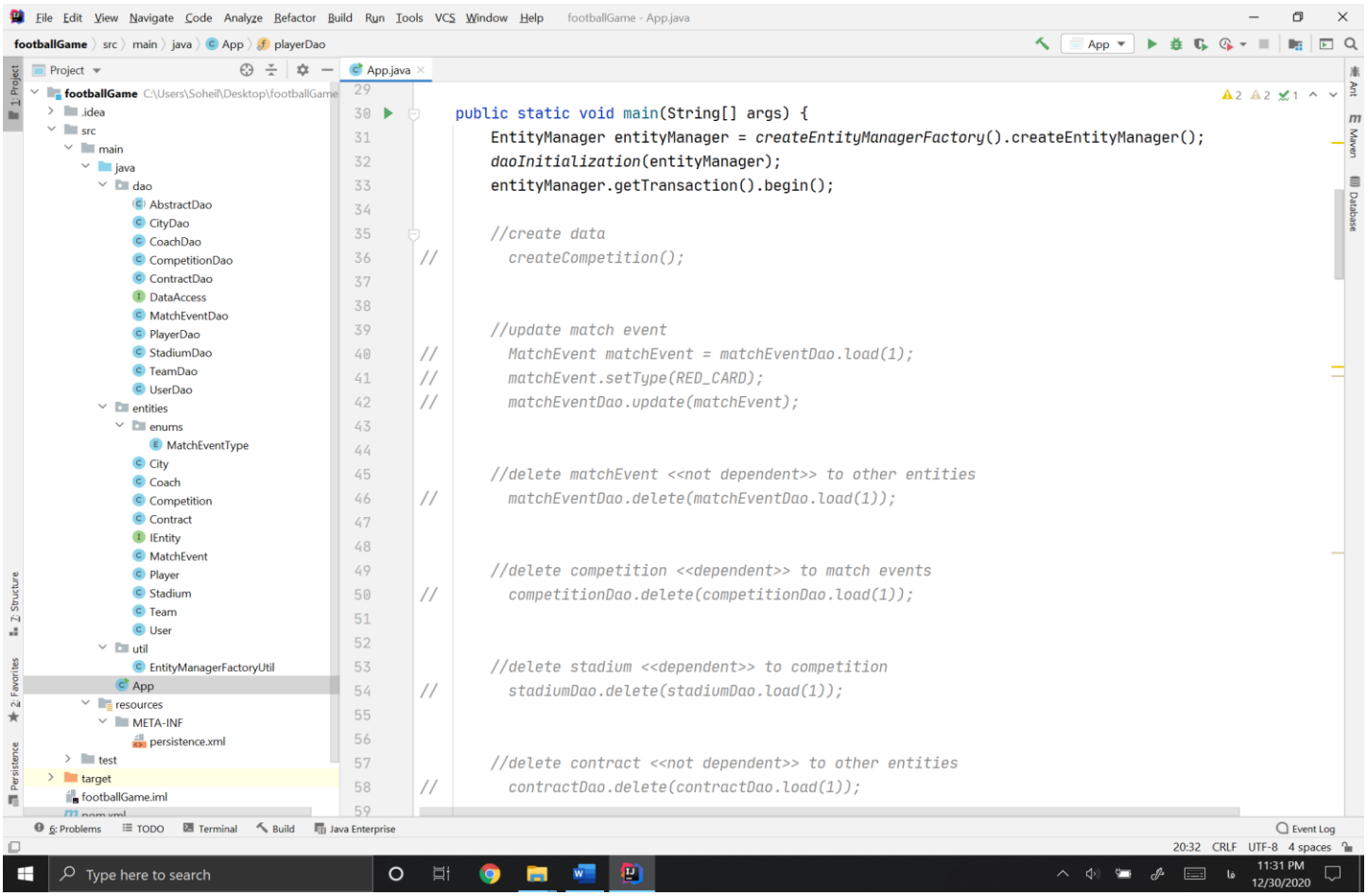
محمدرضا مسیب زاده

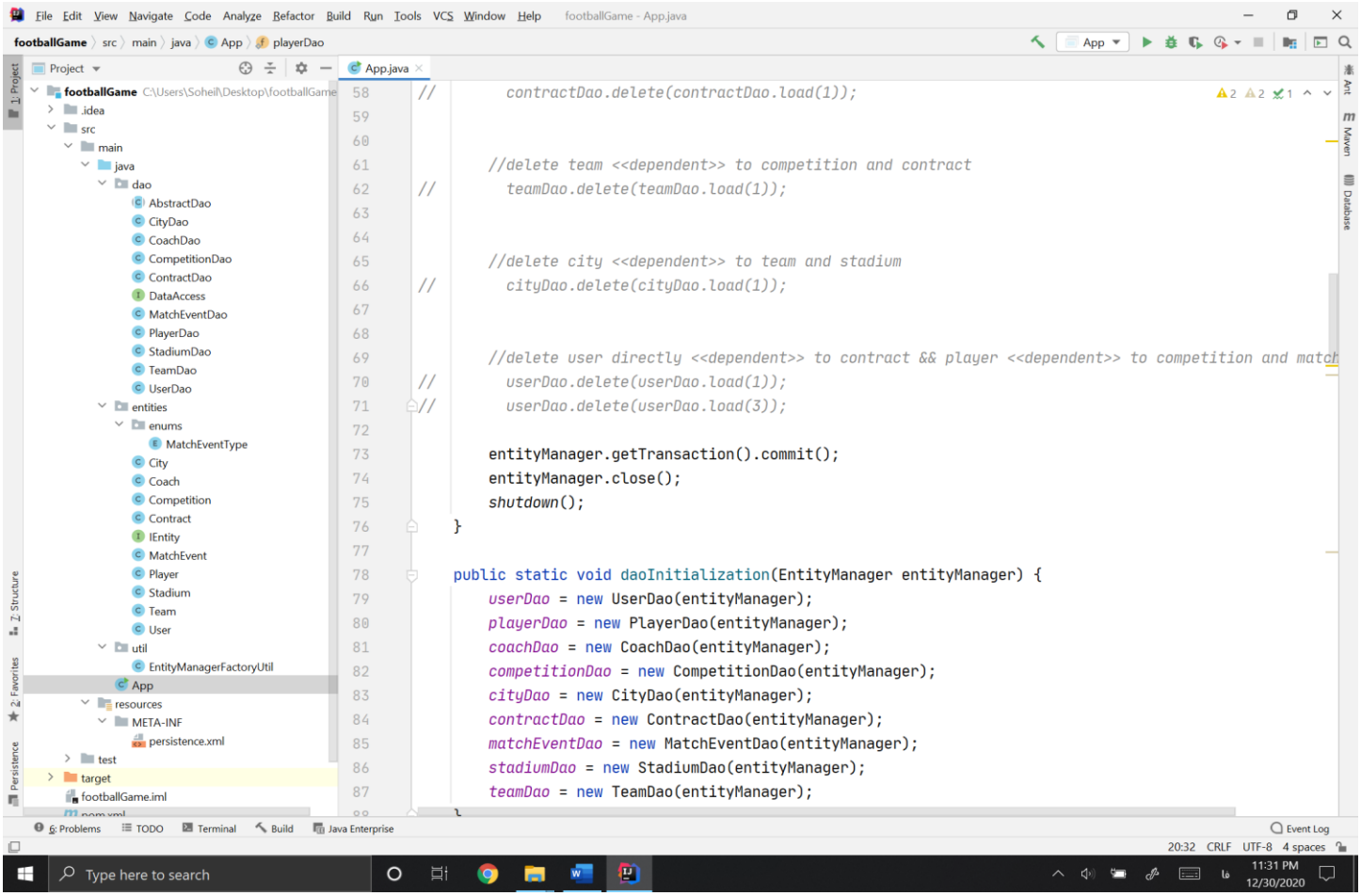
تمرین جاوا :

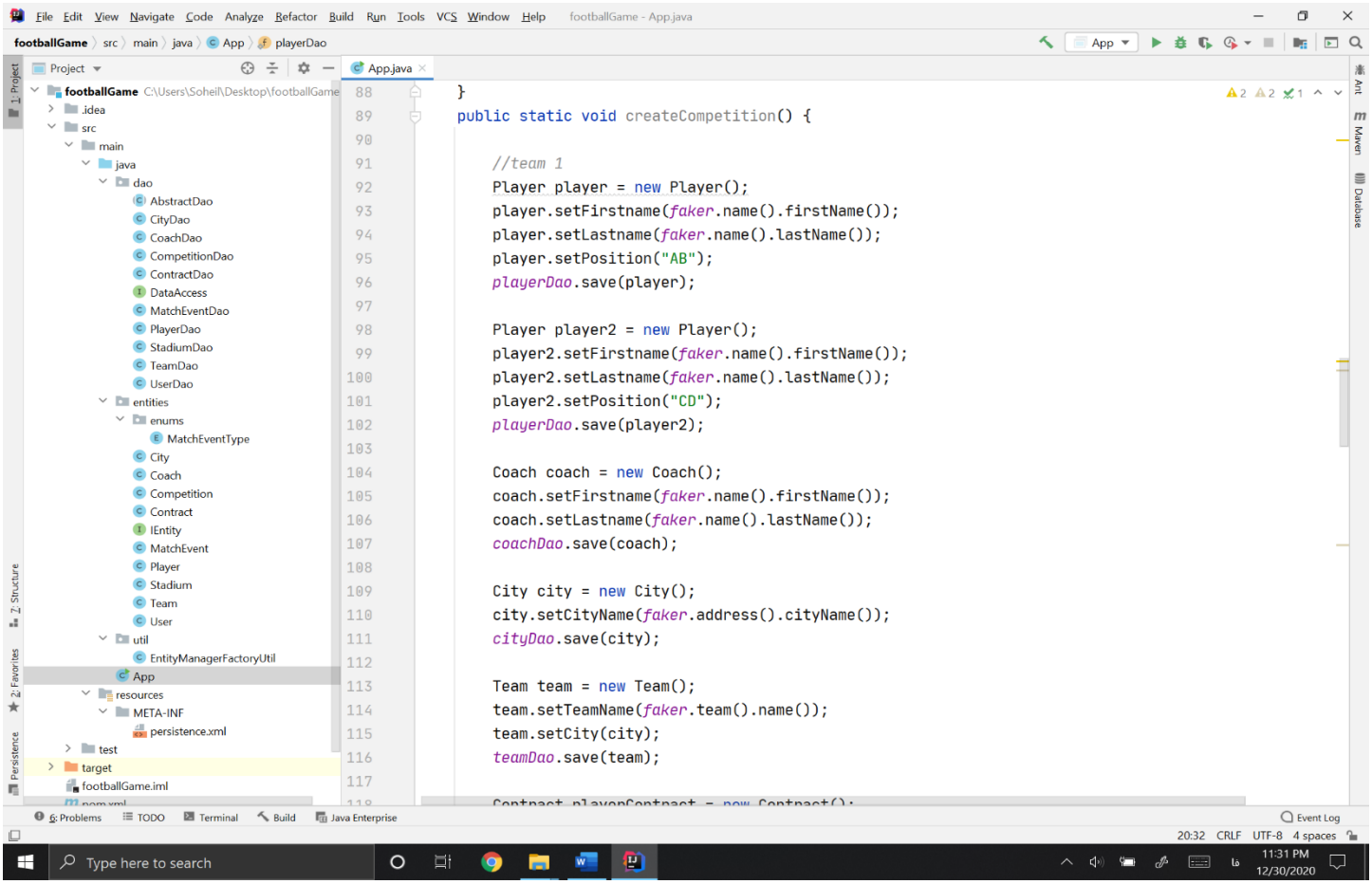
https://github.com/M-Mosaiebzadeh/Maktab_W16.git

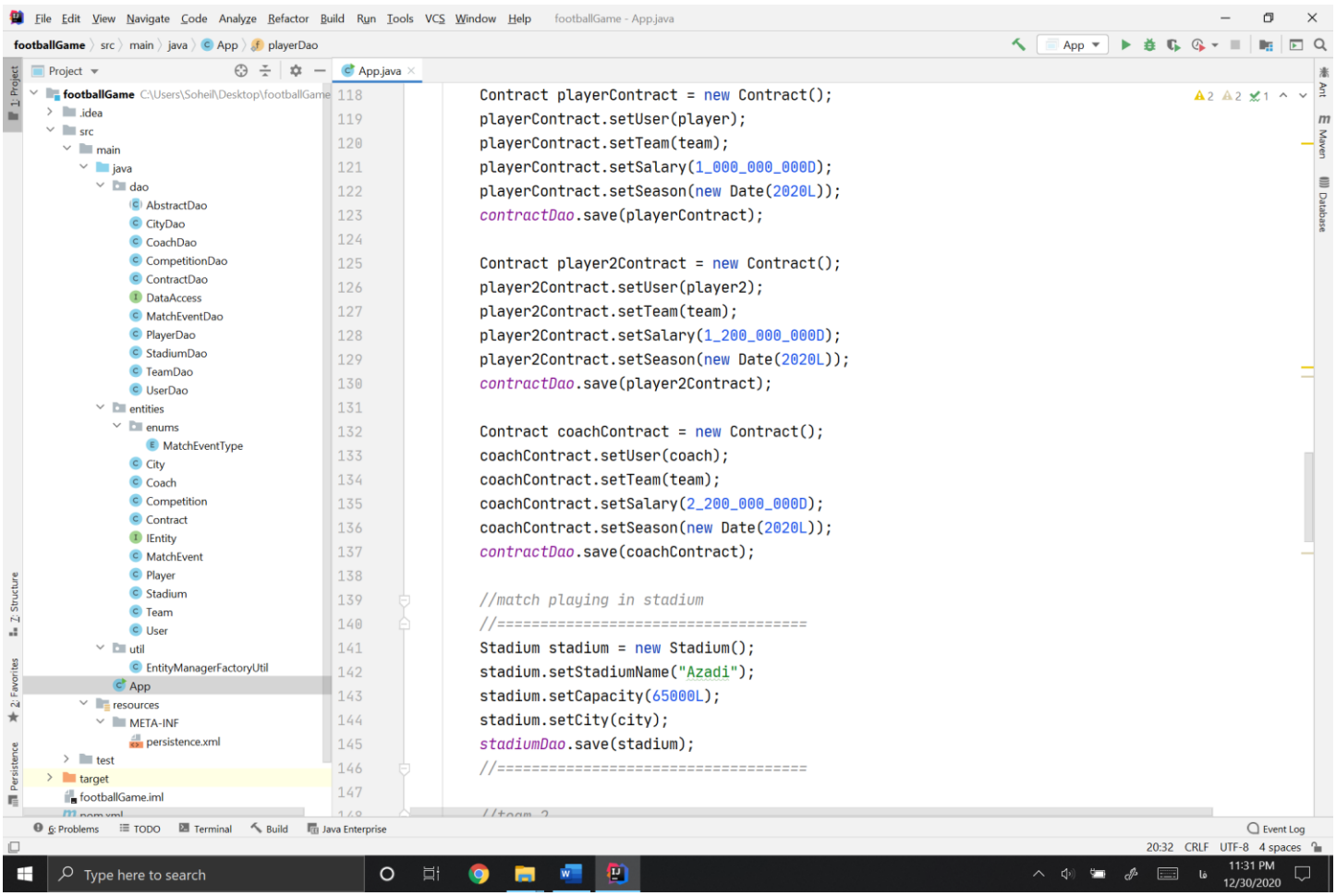
تمرین شماره ۱:

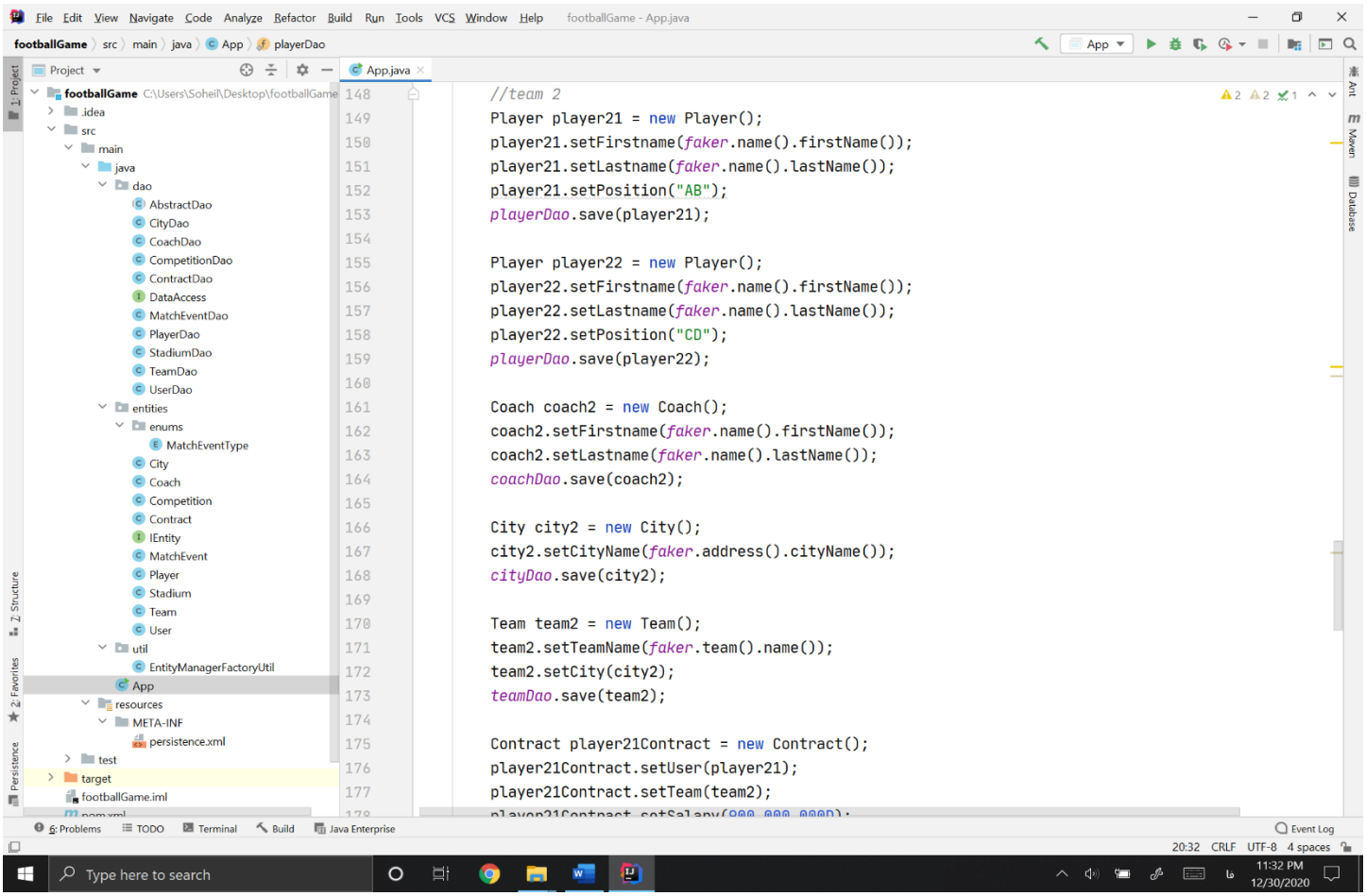


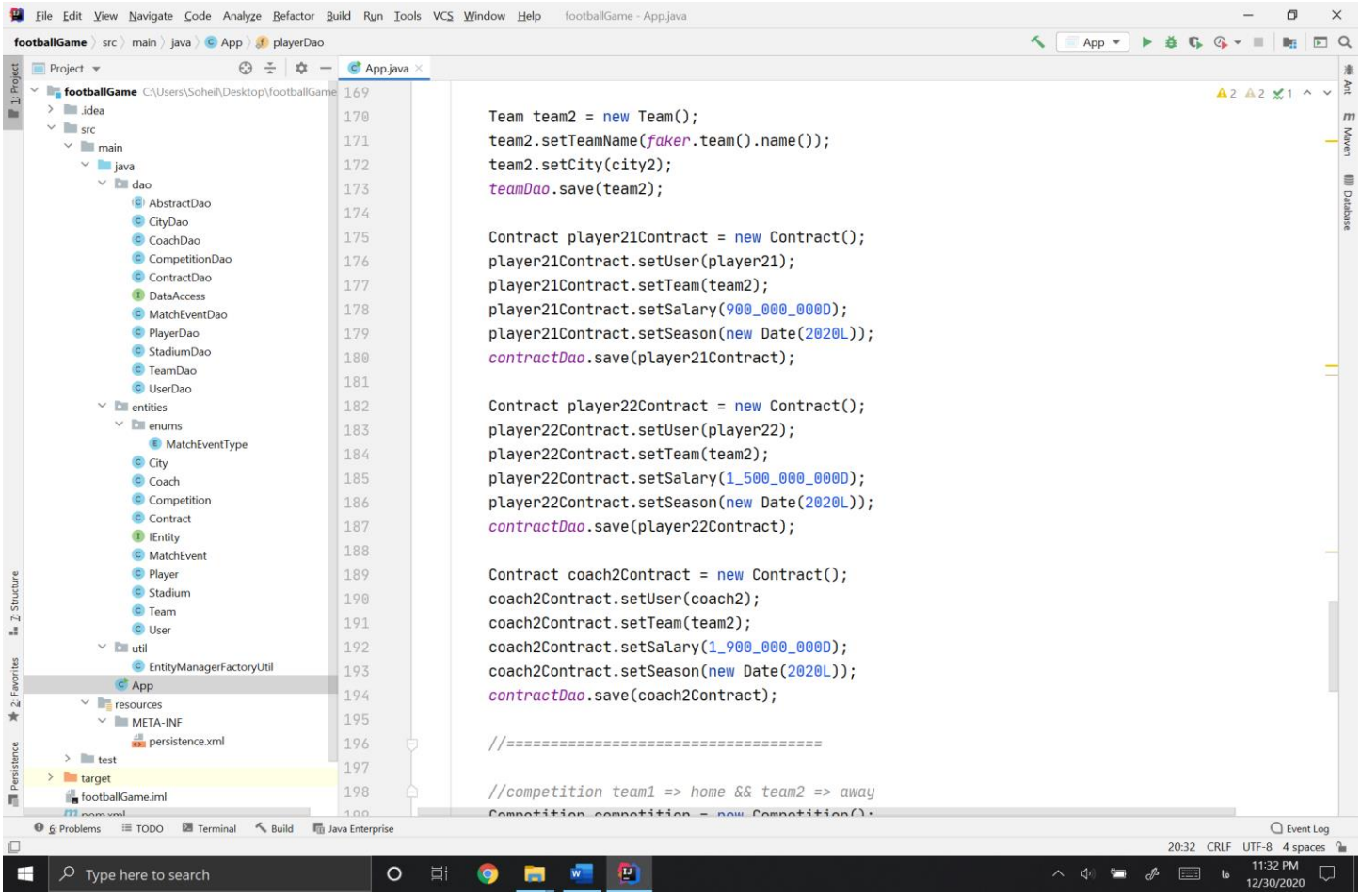

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help
footballGame - App.java
footballGame src main java App playerDao
App
Project
App.java
footballGame C:\Users\Soheil\Desktop\footballGame
.idea
src
main
java
dao
AbstractDao
CityDao
CoachDao
CompetitionDao
ContractDao
DataAccess
MatchEventDao
PlayerDao
StadiumDao
TeamDao
UserDao
entities
enums
MatchEventType
City
Coach
Competition
Contract
IEntity
MatchEvent
Player
Stadium
Team
User
util
EntityManagerFactoryUtil
App
resources
META-INF
persistence.xml
test
target
footballGame.iml
public static void main(String[] args) {
EntityManager entityManager = createEntityManagerFactory().createEntityManager();
daoInitialization(entityManager);
entityManager.getTransaction().begin();
//create data
// createCompetition();
//update match event
// MatchEvent matchEvent = matchEventDao.load(1);
// matchEvent.setType(RED_CARD);
// matchEventDao.update(matchEvent);
//delete matchEvent <<not dependent>> to other entities
// matchEventDao.delete(matchEventDao.load(1));
//delete competition <<dependent>> to match events
// competitionDao.delete(competitionDao.load(1));
//delete stadium <<dependent>> to competition
// stadiumDao.delete(stadiumDao.load(1));
//delete contract <<not dependent>> to other entities
// contractDao.delete(contractDao.load(1));
6: Problems
TODO
Terminal
Build
Java Enterprise
Event Log
20:32 CRLF UTF-8 4 spaces
Type here to search
11:31 PM
12/30/2020

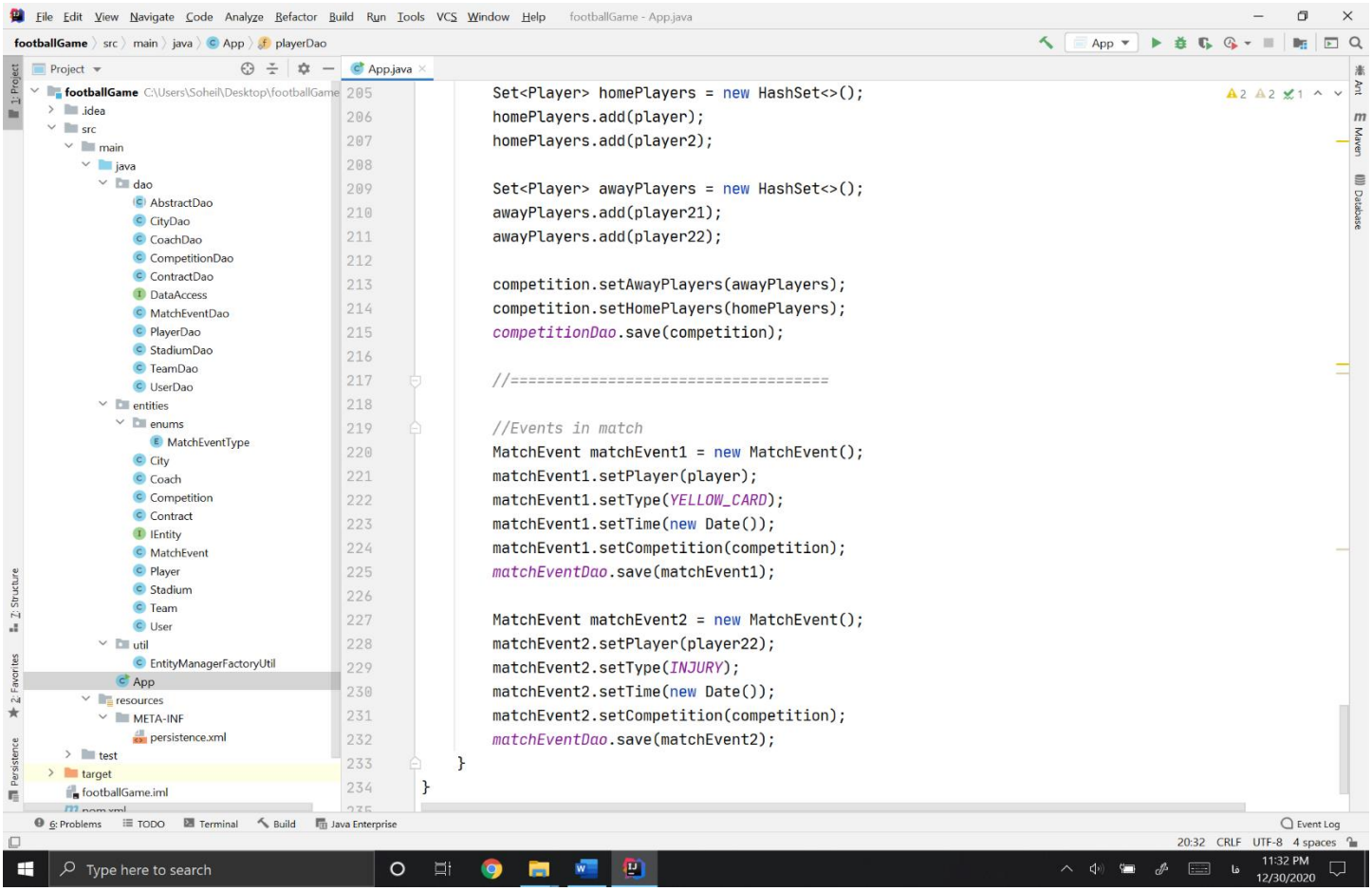

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help
footballGame - App.java
footballGame src main java App playerDao
App
Project
App.java
footballGame C:\Users\Soheil\Desktop\footballGame
.idea
src
main
java
dao
AbstractDao
CityDao
CoachDao
CompetitionDao
ContractDao
DataAccess
MatchEventDao
PlayerDao
StadiumDao
TeamDao
UserDao
entities
enums
MatchEventType
City
Coach
Competition
Contract
IEntity
MatchEvent
Player
Stadium
Team
User
util
EntityManagerFactoryUtil
App
resources
META-INF
persistence.xml
test
target
footballGame.iml
// contractDao.delete(contractDao.load(1));
//delete team <<dependent>> to competition and contract
// teamDao.delete(teamDao.load(1));
//delete city <<dependent>> to team and stadium
// cityDao.delete(cityDao.load(1));
//delete user directly <<dependent>> to contract && player <<dependent>> to competition and match
// userDao.delete(userDao.load(1));
// userDao.delete(userDao.load(3));
entityManager.getTransaction().commit();
entityManager.close();
shutdown();
}
public static void daoInitialization(EntityManager entityManager) {
userDao = new UserDao(entityManager);
playerDao = new PlayerDao(entityManager);
coachDao = new CoachDao(entityManager);
competitionDao = new CompetitionDao(entityManager);
cityDao = new CityDao(entityManager);
contractDao = new ContractDao(entityManager);
matchEventDao = new MatchEventDao(entityManager);
stadiumDao = new StadiumDao(entityManager);
teamDao = new TeamDao(entityManager);
6: Problems
TODO
Terminal
Build
Java Enterprise
Event Log
20:32 CRLF UTF-8 4 spaces
Type here to search
11:31 PM
12/30/2020

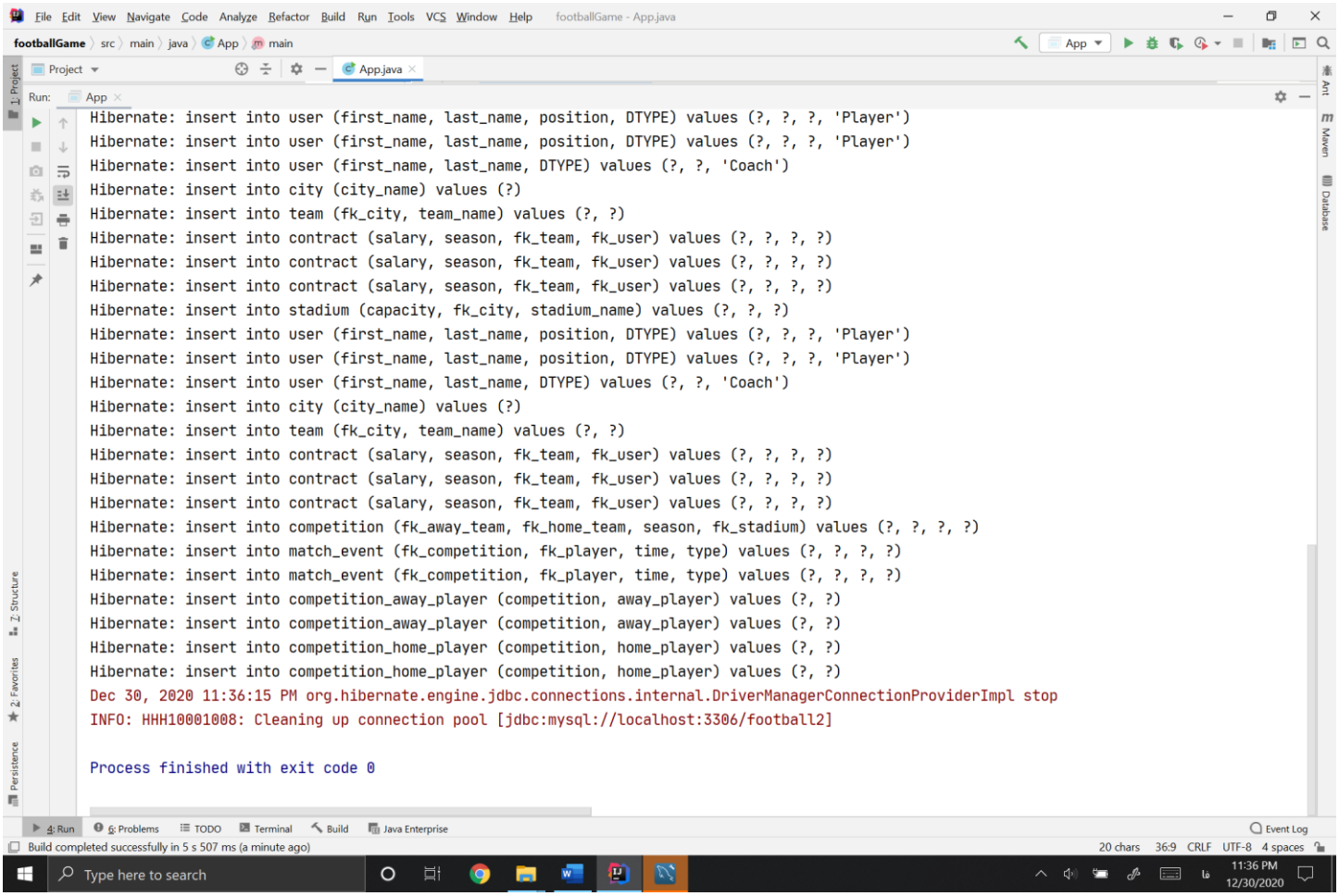

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help
footballGame - App.java
footballGame src main java App playerDao
App
Project
App.java
footballGame C:\Users\Soheil\Desktop\footballGame
.idea
src
main
java
dao
AbstractDao
CityDao
CoachDao
CompetitionDao
ContractDao
DataAccess
MatchEventDao
PlayerDao
StadiumDao
TeamDao
UserDao
entities
enums
MatchEventType
City
Coach
Competition
Contract
IEntity
MatchEvent
Player
Stadium
Team
User
util
EntityManagerFactoryUtil
App
resources
META-INF
persistence.xml
test
target
footballGame.iml
}
public static void createCompetition() {
//team 1
Player player = new Player();
player.setFirstname(faker.name().firstName());
player.setLastname(faker.name().lastName());
player.setPosition("AB");
playerDao.save(player);
Player player2 = new Player();
player2.setFirstname(faker.name().firstName());
player2.setLastname(faker.name().lastName());
player2.setPosition("CD");
playerDao.save(player2);
Coach coach = new Coach();
coach.setFirstname(faker.name().firstName());
coach.setLastname(faker.name().lastName());
coachDao.save(coach);
City city = new City();
city.setCityName(faker.address().cityName());
cityDao.save(city);
Team team = new Team();
team.setTeamName(faker.team().name());
team.setCity(city);
teamDao.save(team);
6: Problems
TODO
Terminal
Build
Java Enterprise
Event Log
20:32 CRLF UTF-8 4 spaces
Type here to search
11:31 PM
12/30/2020


File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help
footballGame - App.java
footballGame src main java App playerDao
App
Project
App.java
footballGame C:\Users\Soheil\Desktop\footballGame
.idea
src
main
java
dao
AbstractDao
CityDao
CoachDao
CompetitionDao
ContractDao
DataAccess
MatchEventDao
PlayerDao
StadiumDao
TeamDao
UserDao
entities
enums
MatchEventType
City
Coach
Competition
Contract
IEntity
MatchEvent
Player
Stadium
Team
User
util
EntityManagerFactoryUtil
App
resources
META-INF
persistence.xml
test
target
footballGame.iml
Contract playerContract = new Contract();
playerContract.setUser(player);
playerContract.setTeam(team);
playerContract.setSalary(1_000_000_000D);
playerContract.setSeason(new Date(2020L));
contractDao.save(playerContract);
Contract player2Contract = new Contract();
player2Contract.setUser(player2);
player2Contract.setTeam(team);
player2Contract.setSalary(1_200_000_000D);
player2Contract.setSeason(new Date(2020L));
contractDao.save(player2Contract);
Contract coachContract = new Contract();
coachContract.setUser(coach);
coachContract.setTeam(team);
coachContract.setSalary(2_200_000_000D);
coachContract.setSeason(new Date(2020L));
contractDao.save(coachContract);
//match playing in stadium
//====================================
Stadium stadium = new Stadium();
stadium.setStadiumName("Azadi");
stadium.setCapacity(65000L);
stadium.setCity(city);
stadiumDao.save(stadium);
//====================================
6: Problems
TODO
Terminal
Build
Java Enterprise
Event Log
20:32 CRLF UTF-8 4 spaces
Type here to search
11:31 PM
12/30/2020

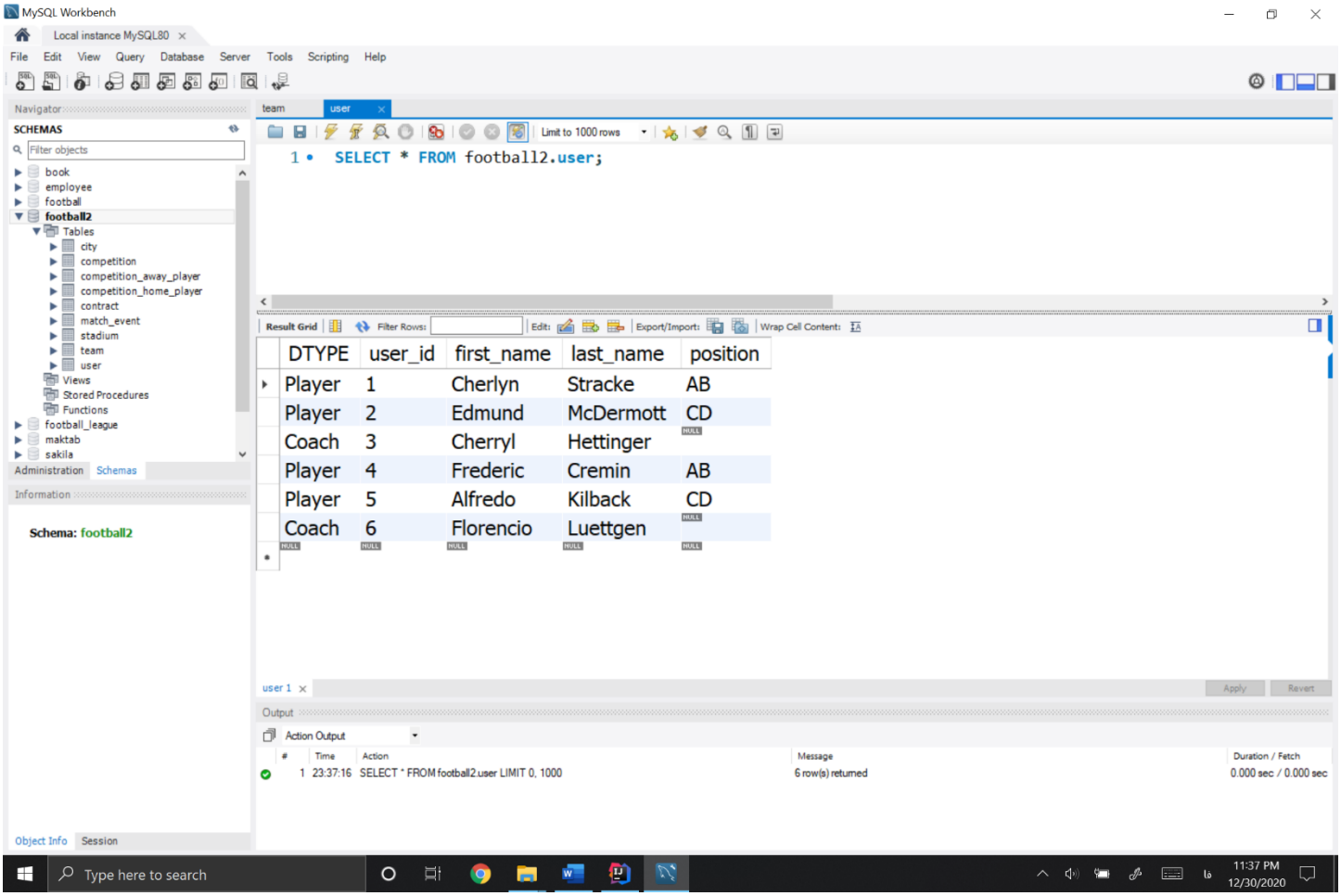

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help
footballGame - App.java
footballGame src main java App playerDao
App
Project
App.java
footballGame C:\Users\Soheil\Desktop\footballGame
.idea
src
main
java
dao
AbstractDao
CityDao
CoachDao
CompetitionDao
ContractDao
DataAccess
MatchEventDao
PlayerDao
StadiumDao
TeamDao
UserDao
entities
enums
MatchEventType
City
Coach
Competition
Contract
IEntity
MatchEvent
Player
Stadium
Team
User
util
EntityManagerFactoryUtil
App
resources
META-INF
persistence.xml
test
target
footballGame.iml
148 //team 2
149 Player player21 = new Player();
150 player21.setFirstname(faker.name().firstName());
151 player21.setLastname(faker.name().lastName());
152 player21.setPosition("AB");
153 playerDao.save(player21);
154
155 Player player22 = new Player();
156 player22.setFirstname(faker.name().firstName());
157 player22.setLastname(faker.name().lastName());
158 player22.setPosition("CD");
159 playerDao.save(player22);
160
161 Coach coach2 = new Coach();
162 coach2.setFirstname(faker.name().firstName());
163 coach2.setLastname(faker.name().lastName());
164 coachDao.save(coach2);
165
166 City city2 = new City();
167 city2.setCityName(faker.address().cityName());
168 cityDao.save(city2);
169
170 Team team2 = new Team();
171 team2.setTeamName(faker.team().name());
172 team2.setCity(city2);
173 teamDao.save(team2);
174
175 Contract player21Contract = new Contract();
176 player21Contract.setUser(player21);
177 player21Contract.setTeam(team2);
6: Problems
TODO
Terminal
Build
Java Enterprise
Event Log
20:32 CRLF UTF-8 4 spaces
Type here to search
11:32 PM
12/30/2020


File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help
footballGame - App.java
footballGame src main java App playerDao
App
Project
App.java
footballGame C:\Users\Soheil\Desktop\footballGame
.idea
src
main
java
dao
AbstractDao
CityDao
CoachDao
CompetitionDao
ContractDao
DataAccess
MatchEventDao
PlayerDao
StadiumDao
TeamDao
UserDao
entities
enums
MatchEventType
City
Coach
Competition
Contract
IEntity
MatchEvent
Player
Stadium
Team
User
util
EntityManagerFactoryUtil
App
resources
META-INF
persistence.xml
test
target
footballGame.iml
169
170 Team team2 = new Team();
171 team2.setTeamName(faker.team().name());
172 team2.setCity(city2);
173 teamDao.save(team2);
174
175 Contract player21Contract = new Contract();
176 player21Contract.setUser(player21);
177 player21Contract.setTeam(team2);
178 player21Contract.setSalary(900_000_000D);
179 player21Contract.setSeason(new Date(2020L));
180 contractDao.save(player21Contract);
181
182 Contract player22Contract = new Contract();
183 player22Contract.setUser(player22);
184 player22Contract.setTeam(team2);
185 player22Contract.setSalary(1_500_000_000D);
186 player22Contract.setSeason(new Date(2020L));
187 contractDao.save(player22Contract);
188
189 Contract coach2Contract = new Contract();
190 coach2Contract.setUser(coach2);
191 coach2Contract.setTeam(team2);
192 coach2Contract.setSalary(1_900_000_000D);
193 coach2Contract.setSeason(new Date(2020L));
194 contractDao.save(coach2Contract);
195
196 //==================================
197
198 //competition team1 => home && team2 => away
6: Problems
TODO
Terminal
Build
Java Enterprise
Event Log
20:32 CRLF UTF-8 4 spaces
Type here to search
11:32 PM
12/30/2020

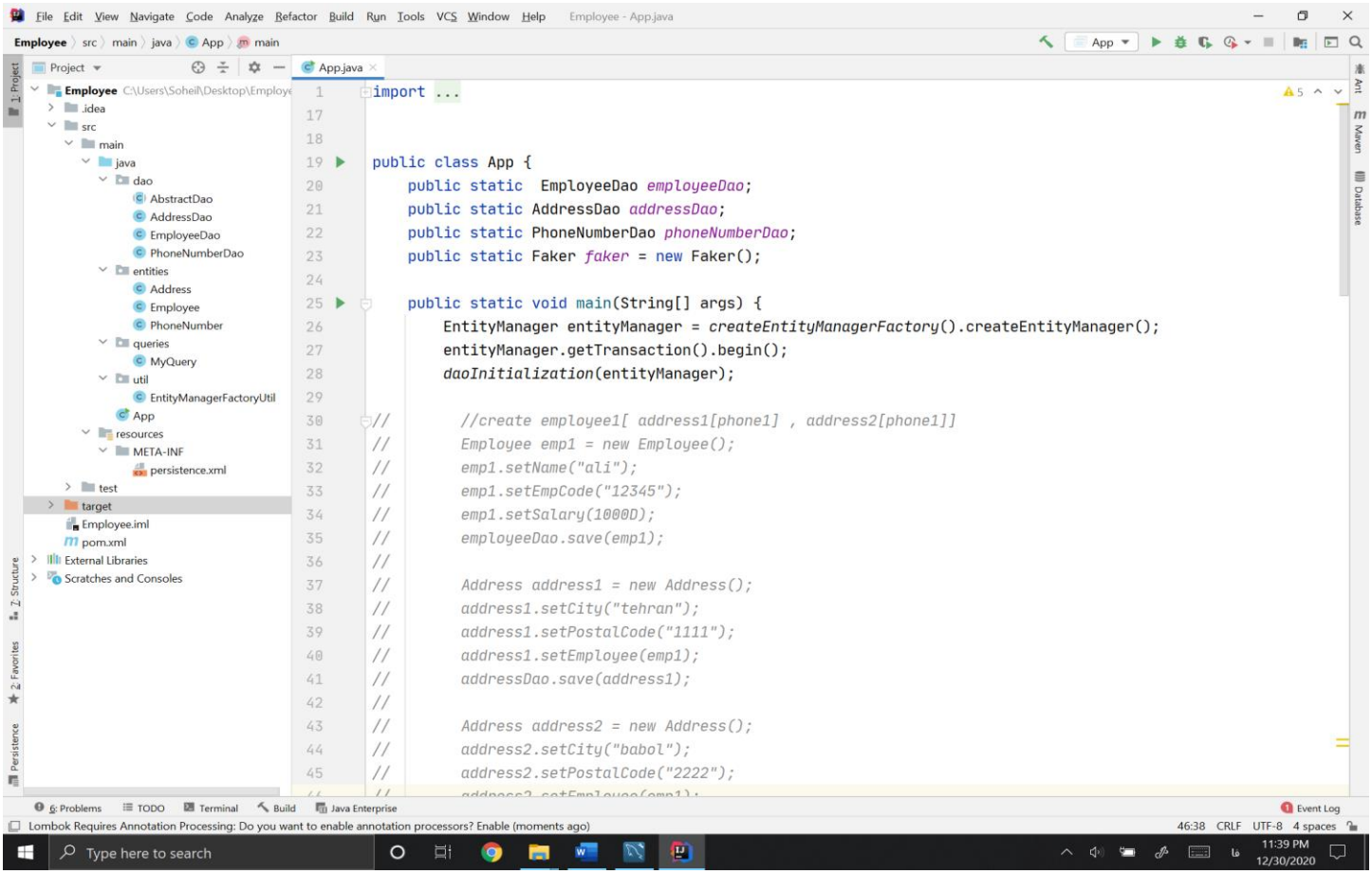

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help
footballGame - App.java
footballGame src main java App playerDao
Project
App.java
footballGame C:\Users\Soheil\Desktop\footballGame
.idea
src
main
java
dao
AbstractDao
CityDao
CoachDao
CompetitionDao
ContractDao
DataAccess
MatchEventDao
PlayerDao
StadiumDao
TeamDao
UserDao
entities
enums
MatchEventType
City
Coach
Competition
Contract
IEntity
MatchEvent
Player
Stadium
Team
User
util
EntityManagerFactoryUtil
App
resources
META-INF
persistence.xml
test
target
footballGame.iml
Set<Player> homePlayers = new HashSet<>();
homePlayers.add(player);
homePlayers.add(player2);
Set<Player> awayPlayers = new HashSet<>();
awayPlayers.add(player21);
awayPlayers.add(player22);
competition.setAwayPlayers(awayPlayers);
competition.setHomePlayers(homePlayers);
competitionDao.save(competition);
//==================================
//Events in match
MatchEvent matchEvent1 = new MatchEvent();
matchEvent1.setPlayer(player);
matchEvent1.setType(YELLOW_CARD);
matchEvent1.setTime(new Date());
matchEvent1.setCompetition(competition);
matchEventDao.save(matchEvent1);
MatchEvent matchEvent2 = new MatchEvent();
matchEvent2.setPlayer(player22);
matchEvent2.setType(INJURY);
matchEvent2.setTime(new Date());
matchEvent2.setCompetition(competition);
matchEventDao.save(matchEvent2);
}
}
6: Problems TODO Terminal Build Java Enterprise
Event Log
20:32 CRLF UTF-8 4 spaces
Type here to search
11:32 PM
12/30/2020

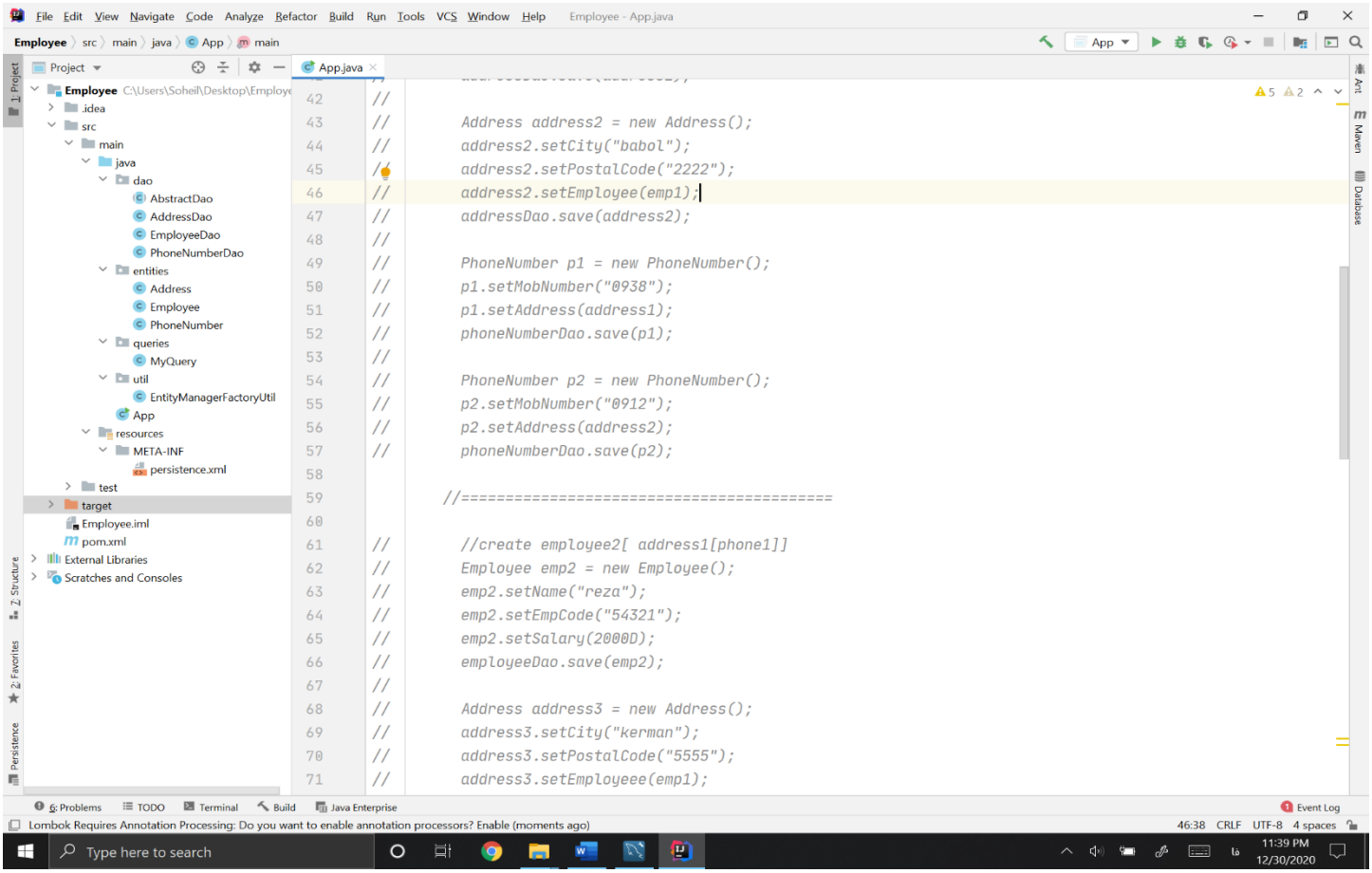

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help
footballGame - App.java
footballGame src main java App main
Project
App.java
Run: App
Hibernate: insert into user (first_name, last_name, position, DTYPE) values (?, ?, ?, 'Player')
Hibernate: insert into user (first_name, last_name, position, DTYPE) values (?, ?, ?, 'Player')
Hibernate: insert into user (first_name, last_name, DTYPE) values (?, ?, 'Coach')
Hibernate: insert into city (city_name) values (?)
Hibernate: insert into team (fk_city, team_name) values (?, ?)
Hibernate: insert into contract (salary, season, fk_team, fk_user) values (?, ?, ?, ?)
Hibernate: insert into contract (salary, season, fk_team, fk_user) values (?, ?, ?, ?)
Hibernate: insert into contract (salary, season, fk_team, fk_user) values (?, ?, ?, ?)
Hibernate: insert into stadium (capacity, fk_city, stadium_name) values (?, ?, ?)
Hibernate: insert into user (first_name, last_name, position, DTYPE) values (?, ?, ?, 'Player')
Hibernate: insert into user (first_name, last_name, position, DTYPE) values (?, ?, ?, 'Player')
Hibernate: insert into user (first_name, last_name, DTYPE) values (?, ?, 'Coach')
Hibernate: insert into city (city_name) values (?)
Hibernate: insert into team (fk_city, team_name) values (?, ?)
Hibernate: insert into contract (salary, season, fk_team, fk_user) values (?, ?, ?, ?)
Hibernate: insert into contract (salary, season, fk_team, fk_user) values (?, ?, ?, ?)
Hibernate: insert into contract (salary, season, fk_team, fk_user) values (?, ?, ?, ?)
Hibernate: insert into competition (fk_away_team, fk_home_team, season, fk_stadium) values (?, ?, ?, ?)
Hibernate: insert into match_event (fk_competition, fk_player, time, type) values (?, ?, ?, ?)
Hibernate: insert into match_event (fk_competition, fk_player, time, type) values (?, ?, ?, ?)
Hibernate: insert into competition_away_player (competition, away_player) values (?, ?)
Hibernate: insert into competition_away_player (competition, away_player) values (?, ?)
Hibernate: insert into competition_home_player (competition, home_player) values (?, ?)
Hibernate: insert into competition_home_player (competition, home_player) values (?, ?)
Dec 30, 2020 11:36:15 PM org.hibernate.engine.jdbc.connections.internal.DriverManagerConnectionProviderImpl stop
INFO: HHH10001008: Cleaning up connection pool [jdbc:mysql://localhost:3306/football2]
Process finished with exit code 0
4: Run 6: Problems TODO Terminal Build Java Enterprise
Event Log
Build completed successfully in 5 s 507 ms (a minute ago)
20 chars 36:9 CRLF UTF-8 4 spaces
Type here to search
11:36 PM
12/30/2020

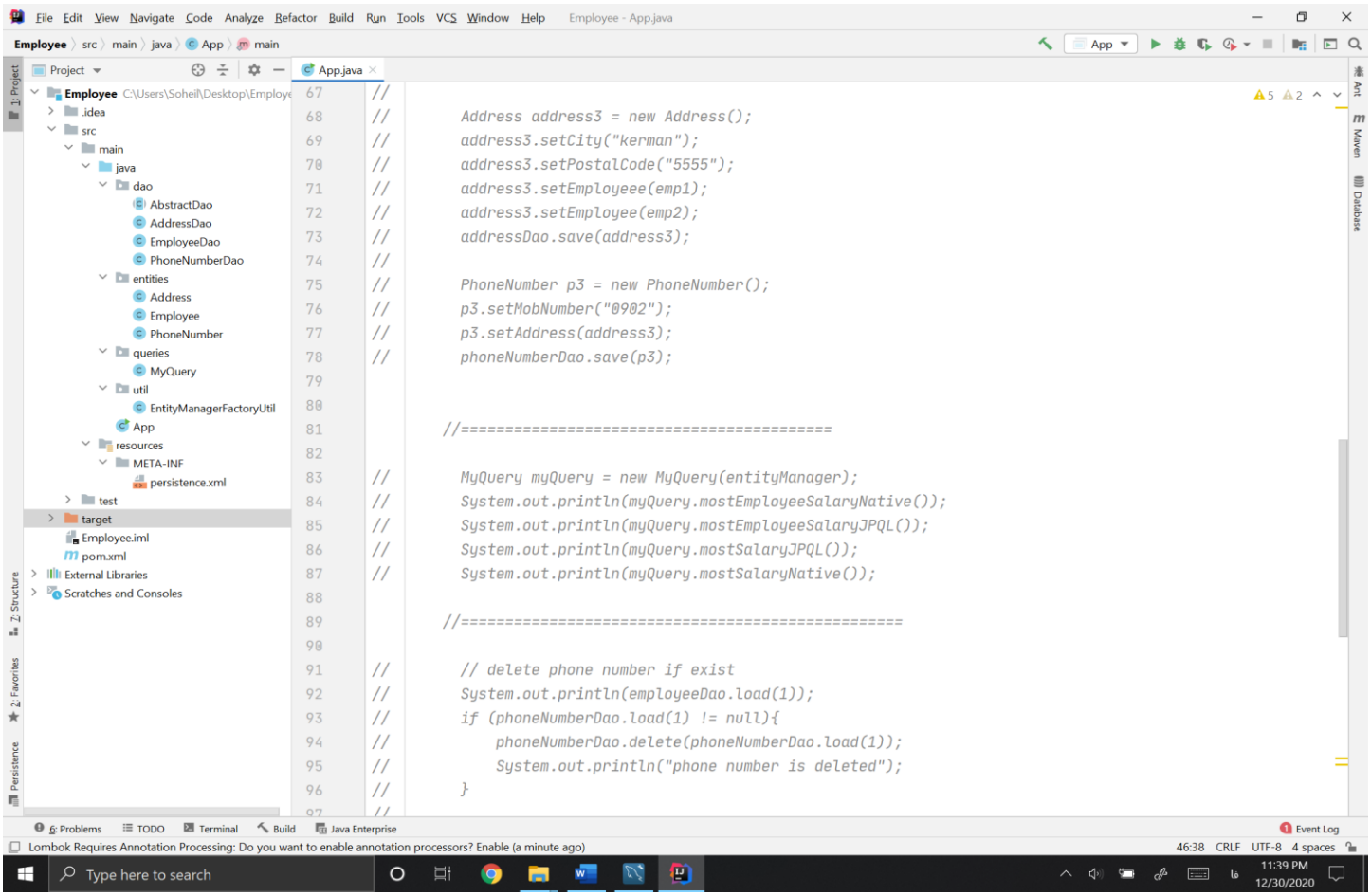
دیتابیس این سوال به همراه جدول یوزر ها:



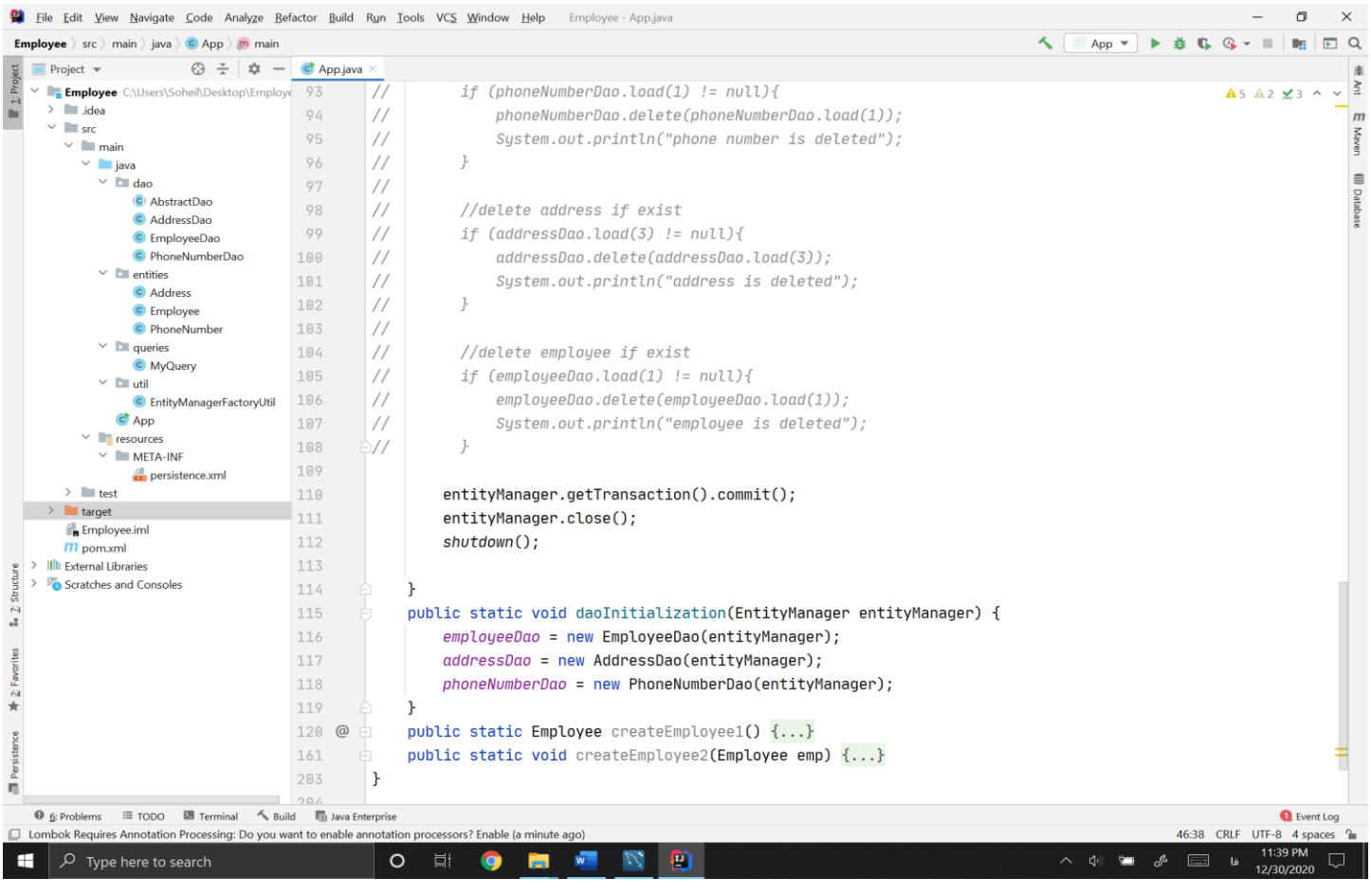
تمرین دوم :


File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help Employee - App.java
Employee src main java App main
App
Project
App.java
Employee C:\Users\Soheil\Desktop\Employe
.idea
src
main
java
dao
AbstractDao
AddressDao
EmployeeDao
PhoneNumberDao
entities
Address
Employee
PhoneNumber
queries
MyQuery
util
EntityManagerFactoryUtil
App
resources
META-INF
persistence.xml
test
target
Employee.iml
pom.xml
External Libraries
Scratches and Consoles
import ...
public class App {
public static EmployeeDao employeeDao;
public static AddressDao addressDao;
public static PhoneNumberDao phoneNumberDao;
public static Faker faker = new Faker();
public static void main(String[] args) {
EntityManager entityManager = createEntityManagerFactory().createEntityManager();
entityManager.getTransaction().begin();
daoInitialization(entityManager);
//create employee1[address1[phone1] , address2[phone1]]
Employee emp1 = new Employee();
emp1.setName("ali");
emp1.setEmpCode("12345");
emp1.setSalary(1000D);
employeeDao.save(emp1);
Address address1 = new Address();
address1.setCity("tehran");
address1.setPostalCode("1111");
address1.setEmployee(emp1);
addressDao.save(address1);
Address address2 = new Address();
address2.setCity("babol");
address2.setPostalCode("2222");
6: Problems TODO Terminal Build Java Enterprise
Event Log
Lombok Requires Annotation Processing: Do you want to enable annotation processors? Enable (moments ago)
46:38 CRLF UTF-8 4 spaces
Type here to search
11:39 PM
12/30/2020

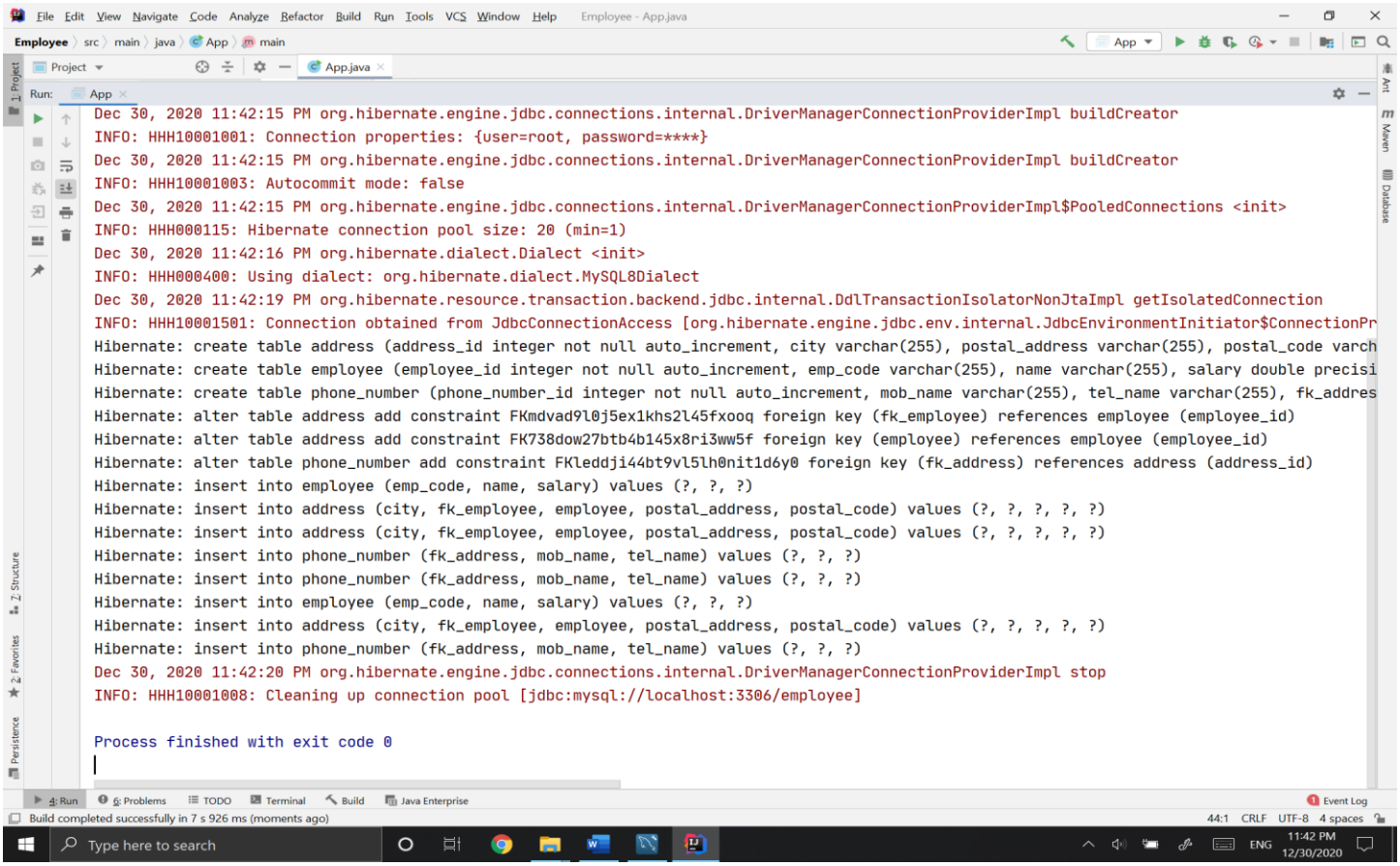

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help Employee - App.java
Employee src main java App main
App
Project
App.java
Employee C:\Users\Soheil\Desktop\Employe
.idea
src
main
java
dao
AbstractDao
AddressDao
EmployeeDao
PhoneNumberDao
entities
Address
Employee
PhoneNumber
queries
MyQuery
util
EntityManagerFactoryUtil
App
resources
META-INF
persistence.xml
test
target
Employee.iml
pom.xml
External Libraries
Scratches and Consoles
Address address2 = new Address();
address2.setCity("babol");
address2.setPostalCode("2222");
address2.setEmployee(emp1);
addressDao.save(address2);
PhoneNumber p1 = new PhoneNumber();
p1.setMobNumber("0938");
p1.setAddress(address1);
phoneNumberDao.save(p1);
PhoneNumber p2 = new PhoneNumber();
p2.setMobNumber("0912");
p2.setAddress(address2);
phoneNumberDao.save(p2);
//===
//create employee2[address1[phone1]]
Employee emp2 = new Employee();
emp2.setName("reza");
emp2.setEmpCode("54321");
emp2.setSalary(2000D);
employeeDao.save(emp2);
Address address3 = new Address();
address3.setCity("kerman");
address3.setPostalCode("5555");
address3.setEmployeee(emp1);
6: Problems TODO Terminal Build Java Enterprise
Event Log
Lombok Requires Annotation Processing: Do you want to enable annotation processors? Enable (moments ago)
46:38 CRLF UTF-8 4 spaces
Type here to search
11:39 PM
12/30/2020



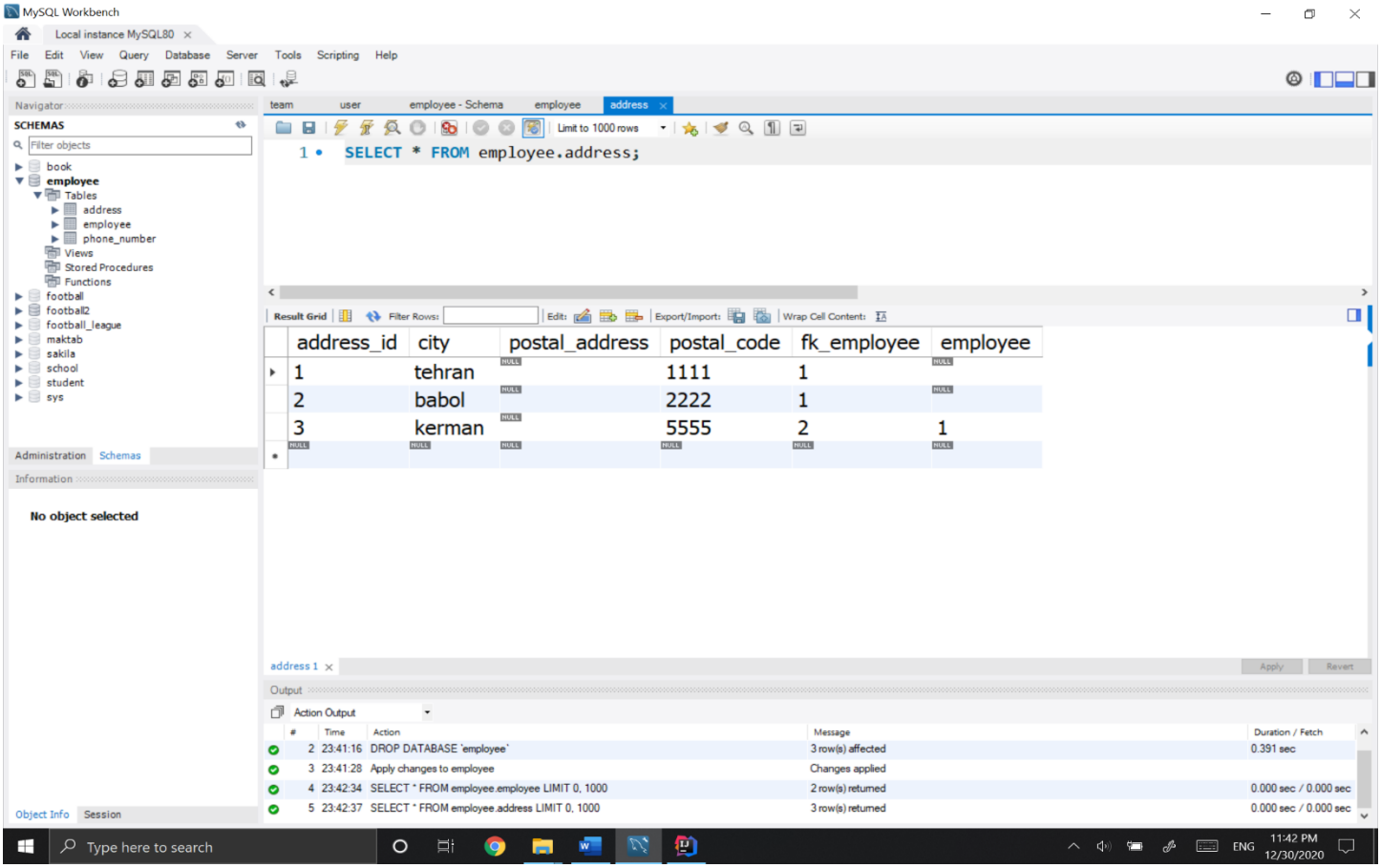
```
//
//        Address address3 = new Address();
//        address3.setCity("kerman");
//        address3.setPostalCode("5555");
//        address3.setEmployeee(emp1);
//        address3.setEmployee(emp2);
//        addressDao.save(address3);
//
//        PhoneNumber p3 = new PhoneNumber();
//        p3.setMobNumber("0902");
//        p3.setAddress(address3);
//        phoneNumberDao.save(p3);


        //=========================================

//        MyQuery myQuery = new MyQuery(entityManager);
//        System.out.println(myQuery.mostEmployeeSalaryNative());
//        System.out.println(myQuery.mostEmployeeSalaryJPQL());
//        System.out.println(myQuery.mostSalaryJPQL());
//        System.out.println(myQuery.mostSalaryNative());

        //=================================================

//        // delete phone number if exist
//        System.out.println(employeeDao.load(1));
//        if (phoneNumberDao.load(1) != null){
//            phoneNumberDao.delete(phoneNumberDao.load(1));
//            System.out.println("phone number is deleted");
//        }
```



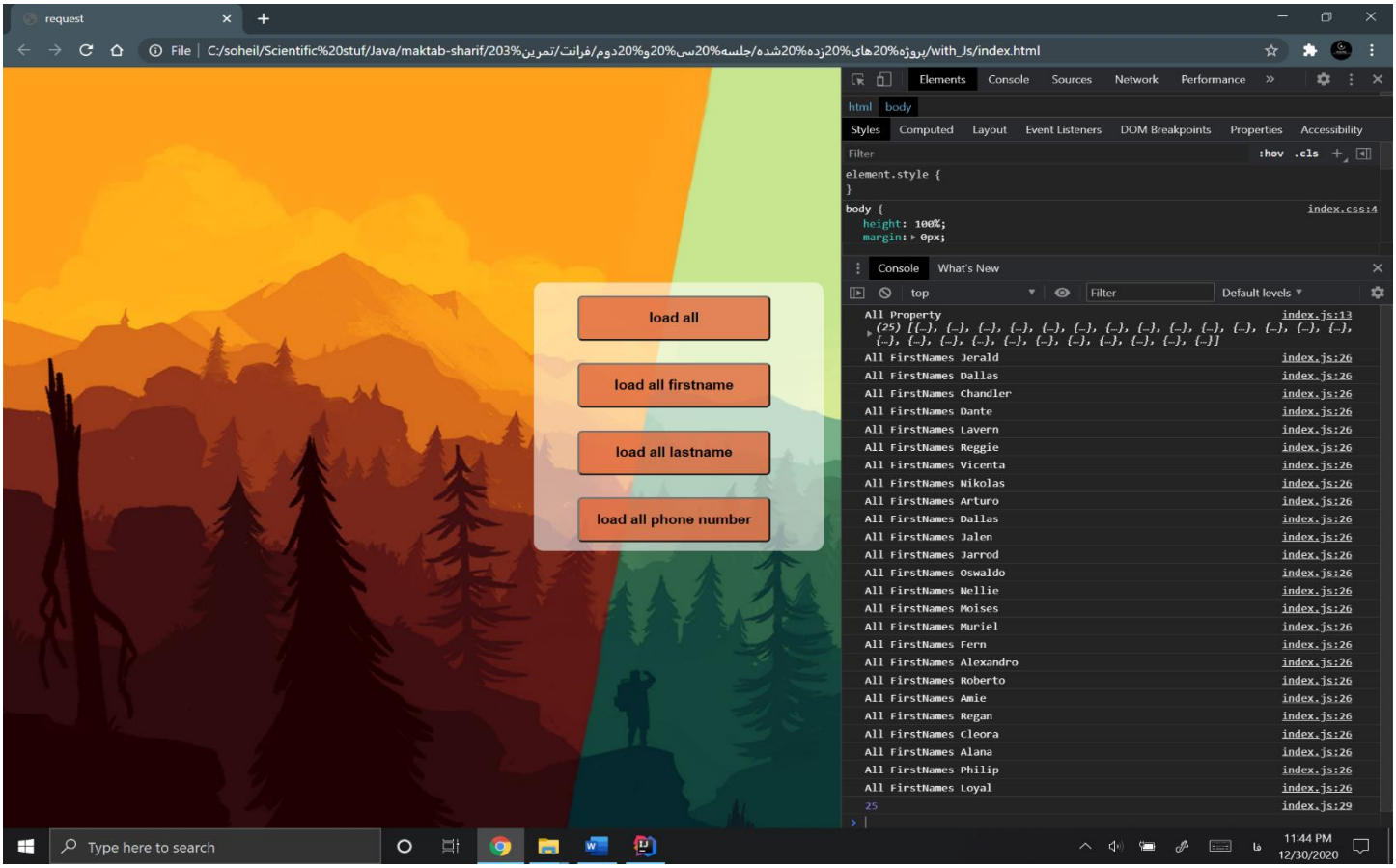
```
//        if (phoneNumberDao.load(1) != null){
//            phoneNumberDao.delete(phoneNumberDao.load(1));
//            System.out.println("phone number is deleted");
//        }
//
//        //delete address if exist
//        if (addressDao.load(3) != null){
//            addressDao.delete(addressDao.load(3));
//            System.out.println("address is deleted");
//        }
//
//        //delete employee if exist
//        if (employeeDao.load(1) != null){
//            employeeDao.delete(employeeDao.load(1));
//            System.out.println("employee is deleted");
//        }

        entityManager.getTransaction().commit();
        entityManager.close();
        shutdown();

    }
    public static void daoInitialization(EntityManager entityManager) {
        employeeDao = new EmployeeDao(entityManager);
        addressDao = new AddressDao(entityManager);
        phoneNumberDao = new PhoneNumberDao(entityManager);
    }
    public static Employee createEmployee1() {...}
    public static void createEmployee2(Employee emp) {...}
}
```



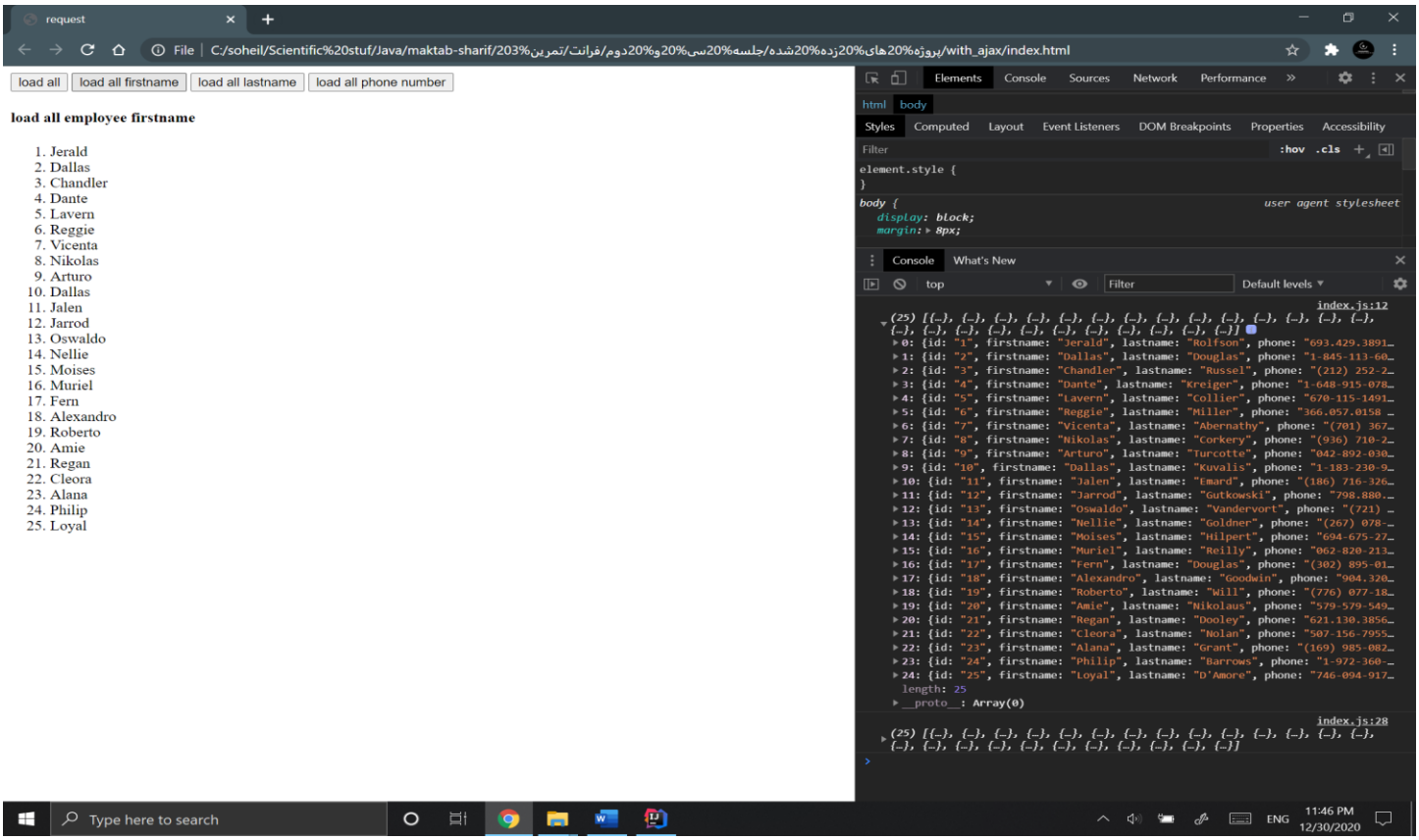
دیتابیس employee به همراه تیبل address



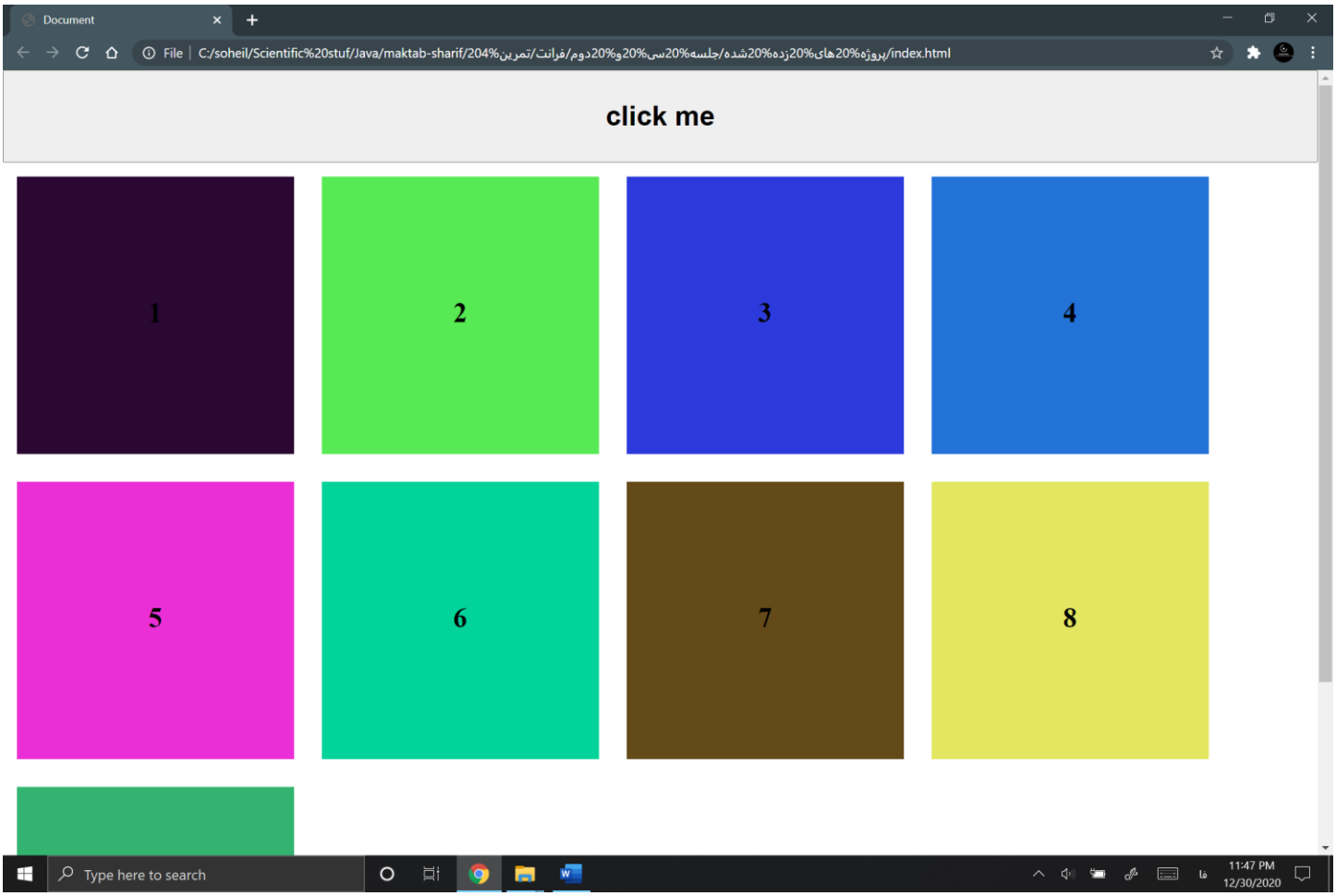
تمرین سوم روش اول js:



تمرین سوم روش اول ajax:



تمرین چهارم:


Document
File | C:/soheil/Scientific%20stuf/Java/maktab-sharif/204%تمرین/فرانت%20دوم%20و%20سی%20جلسه%20شده%20زده%20های%20پروژه/index.html
click me
1
2
3
4
5
6
7
8
Type here to search
11:47 PM
12/30/2020