

```
import javax.persistence.Entity;
   import javax.persistence.Id;
6
   @Entity
8 public class Movie {
90
        ald
10
        private Integer movieId:
11
        private String movieName;
        private String directorName;
12
        private Float imdbRating;
13
148
        @Column(name="release year")
15
        private Integer year;
168
        public Integer getMovieId() {
17
             return movieId:
18
 198
         public void setMovieId(Integer movieId) {
             this.movieId = movieId;
         public String getMovieName() {
             return movieName:
         public void setMovieName(String movieName) {
             this.movieName = movieName;
         public String getDirectorName() {
             return directorName;
          public void setDirectorName(String directorName) -{
              this.directorName = directorName:
          public Float getImdbRating() {
```

```
pplication.properties
                   TableScript.sql
                                   [] InfyPlexImplApplication.java
         this.year = year;
     @Override
     public int hashCode() {
         final int prime = 31;
         int result = 1;
         result = prime * result + ((movieId == null) ? 0 : movieId.hashCode());
         return result;
     @Override
4
      public boolean equals(Object obj) {
5
          if (this == obj)
             return true;
          if (obj == null)
              return false;
          if (getClass() != obj.getClass())
              return false;
          Movie other = (Movie) obj;
          if (movieId == null) {
              if (other.movieId != null)
                  return false;
          } else if (!movieId.equals(other.movieId))
              return false;
          return true;
       public String toString() {
           return "Movie [movieId=" + movieId + ", movieName=" + movieName + ", directorName=" + directorName
                  + ", imdbRating=" + imdbRating + ", year=" + year + "]";
```

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                                   Movie.java
                                                   MovieRepositor...
                                                                        J) InfyPlexImplAp.
                                                                                           MovieRe
 package com.infy.repository;
import java.util.ArrayList;
 @Repository(value="movieRepository")
 public class MovieRepositoryImpl implements MovieRepository {
     @PersistenceContext
     private EntityManager entityManager;
     @Override
     public MovieDTO getMovieByName(String movieName) {
          MovieDTO m=null;
         Query query=entityManager.createQuery("Select c from Movie c where c.movieName=?1");
          query.setParameter(1, movieName);
         Movie m1=(Movie) query.getSingleResult();
          if(m1!=null)
              m=new MovieDTO();
              m.setDirectorName(m1.getDirectorName());
              m.setImdbRating(m1.getImdbRating());
              m.setMovieId(ml.getMovieId());
              m.setMovieName(ml.getMovieName());
              m.setYear(m1.getYear());
          return m;
      public List<MovieDTO> getMoviesByImdbRating(Double fromRating, Double toRating) {
          List<MovieDTO> l=new ArrayList<>();
          String queryString = "select c from Movie c where c.imdbRating>=?1 and c.imdbRating<=?2";
          Query query = entityManager.createQuery(queryString);
                     Decision Console 88
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                                                                         J) InfyPlexImplAp...
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                                     J Movie.java
                                                    MovieRepositor...
44
45
            Query query = entityManager.createQuery(queryString);
            Float a=Float.valueOf(fromRating.toString());
46
47
48
            Float b=Float.valueOf(toRating.toString());
49
            query.setParameter(1, a);
50
            query.setParameter(2, b);
51
            List<Movie> l1=query.getResultList();
            if(!l1.isEmpty())
52
53
 54
                for (Movie m1:11)
                    MovieDTO m=new MovieDTO();
 57
                    m.setDirectorName(m1.getDirectorName());
                    m.setImdbRating(ml.getImdbRating());
 59
                    m.setMovieId(m1.getMovieId());
                    m.setMovieName(ml.getMovieName());
                    m.setYear(ml.getYear());
                    1.add(m);
 64
            return 1;
        @Override
        public List<Object[]> getMoviesNameAndYear(String directorName) {
            String queryString = "select c.movieName, c.year from Movie c where c.directorName=?1";
            Query query = entityManager.createQuery(queryString);
            query.setParameter(1, directorName);
            List<Object[]> result = query.getResultList();
            return result;
                       Declaration Console XX
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application.pr... TableScript.sql MovieRepositor... 🛭 🕧 InfyPlexImpIAp... J MovieRepositor J) Movie.java 1 package com.infy.repository; 3@ import java.util.ArrayList; 14 @Repository(value="movieRepository") 15 public class MovieRepositoryImpl implements MovieRepository { 17 180 @PersistenceContext 19 private EntityManager entityManager; 20 721⊖ @Override public List<MovieDTO> getMovieByRating(Double fromRating) { List<MovieDTO> l=new ArrayList<>(); String queryString = "select c from Movie c where c.imdbRating>=?1 order by c.imdbRating"; 24 Query query = entityManager.createQuery(queryString); Float a=Float.valueOf(fromRating.toString()); query.setParameter(1, a); List<Movie> l1=query.getResultList(); if(!l1.isEmpty()) for (Movie m1:11) MovieDTO m=new MovieDTO(); m.setDirectorName(m1.getDirectorName()); m.setImdbRating(m1.getImdbRating()); m.setMovieId(ml.getMovieId()); m.setMovieName(ml.getMovieName()); m.setYear(ml.getYear()); 1.add(m); Console 33

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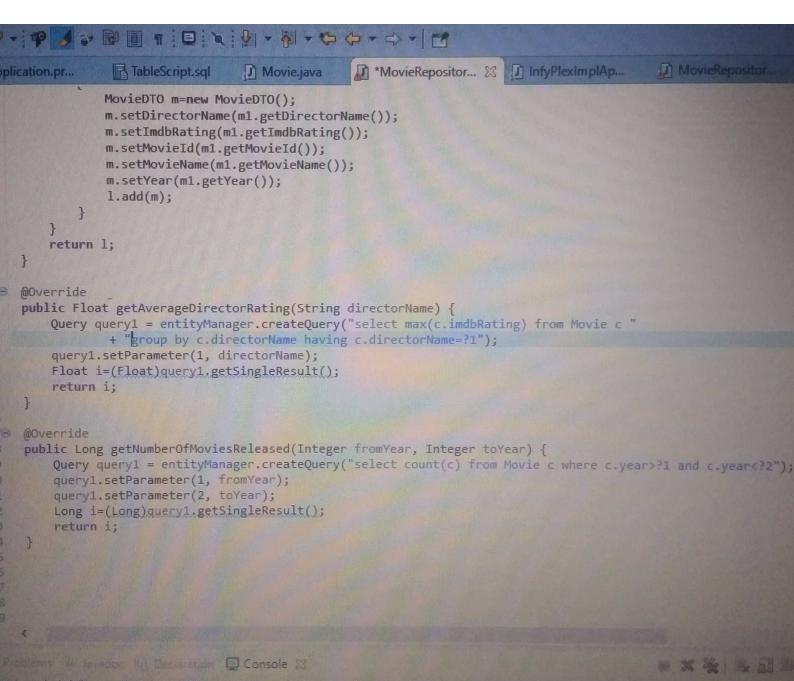
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//MovieRepositoryImpl.java - Eclipse IDE

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        return 1;
17
180
    @Override
    public List<MovieDTO> getHighestRatedMovie(String directorName) {
51
        List<MovieDTO> l=new ArrayList<>();
        String queryString = "select c from Movie c where c.directorName=?1 and c.imdbRating=?2";
        Query query1 = entityManager.createQuery("select max(c.imdbRating) from Movie c.
                 + "group by c.directorName having c.directorName=?1");
54
         Query query = entityManager.createQuery(queryString);
         query1.setParameter(1, directorName);
57
         Float i=(Float)query1.getSingleResult();
         query.setParameter(1, directorName);
         query.setParameter(2, i);
         List<Movie> 11=query.getResultList();
         if(!11.isEmpty())
             for (Movie m1:11)
                 MovieDTO m=new MovieDTO();
                 m.setDirectorName(m1.getDirectorName());
                 m.setImdbRating(m1.getImdbRating());
                 m.setMovieId(ml.getMovieId());
                 m.setMovieName(ml.getMovieName());
                 m.setYear(m1.getYear());
                 1.add(m);
          return 1;
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