Project Description

Title: Movie Review Management System

Description:

The Movie Review Management System is a database-driven web application designed to facilitate the management and review of movies by users and administrators. The system allows users to browse through a collection of movies, read and submit reviews, and interact with other users. Administrators have the ability to manage user accounts, add new movies to the database, and moderate user reviews.

Key Features:

1. **User Authentication:**
   - **Users can create accounts and log in to the system.**
   - **Passwords are securely stored using encryption techniques.**
   - **Administrators have access to additional functionalities for managing user accounts.**
2. **Movie Database:**
   - **The system contains a comprehensive database of movies.**
   - **Each movie entry includes details such as title, release date, genre, director, duration, description, and rating.**
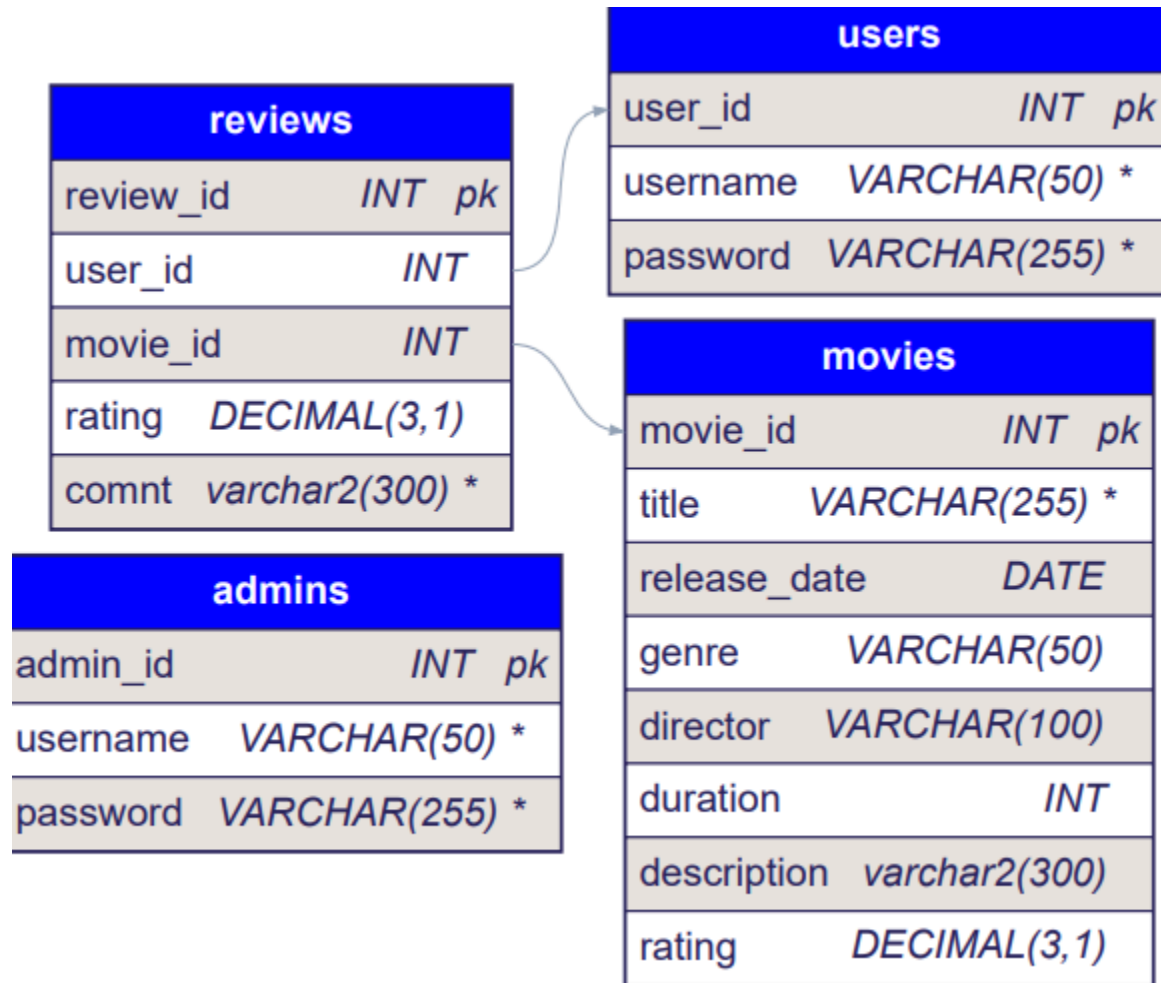3. **Movie Reviews:**
   - **Users can read and submit reviews for movies.**
   - **Reviews include a rating (from 0 to 10) and a comment.**
   - **Users can interact with reviews by liking or replying to them.**
4. **User Interaction:**
   - **Users can browse through the collection of movies, search for specific titles, and view detailed information about each movie.**
   - **User profiles display their activity, including submitted reviews and liked reviews.**

Schema Diagram:

reviews

review_id	INT	pk
user_id	INT	
movie_id	INT	
rating	DECIMAL(3,1)	
comnt	varchar2(300)	*

admins

admin_id	INT	pk
username	VARCHAR(50)	*
password	VARCHAR(255)	*

users

user_id	INT	pk
username	VARCHAR(50)	*
password	VARCHAR(255)	*

movies

movie_id	INT	pk
title	VARCHAR(255)	*
release_date	DATE	
genre	VARCHAR(50)	
director	VARCHAR(100)	
duration	INT	
description	varchar2(300)	
rating	DECIMAL(3,1)	

Movies Table:

```sql
CREATE TABLE movies (
    movie_id INT PRIMARY KEY,
    title VARCHAR(255) NOT NULL,
    release_date DATE,
    genre VARCHAR(50),
    director VARCHAR(100),
    duration INT,
    description varchar2(300),
    rating DECIMAL(3,1)
);
```

INSERT INTO movies VALUES (1, 'The Shawshank Redemption', '1994-09-23', 'Drama', 'Frank Darabont', 142, 'Two imprisoned men bond over a number of years, finding solace and eventual redemption through acts of common decency.', 9.3);
INSERT INTO movies VALUES (2, 'The Godfather', '1972-03-24', 'Crime', 'Francis Ford Coppola', 175, 'The aging patriarch of an organized crime dynasty transfers control of his clandestine empire to his reluctant son.', 9.2);
INSERT INTO movies VALUES (3, 'The Dark Knight', '2008-07-18', 'Action', 'Christopher Nolan', 152, 'When the menace known as The Joker wreaks havoc and chaos on the people of Gotham, Batman must accept one of the greatest psychological and physical tests of his ability to fight injustice.', 9.0);
INSERT INTO movies VALUES (4, 'Pulp Fiction', '1994-10-14', 'Crime', 'Quentin Tarantino', 154, 'The lives of two mob hitmen, a boxer, a gangster and his wife, and a pair of diner bandits intertwine in four tales of violence and redemption.', 8.9);

movie_id	title	release_date	genre	director	duration	description	rating
1	The Shawshank Redemption	1994-09-23	Drama	Frank Darabont	142	Two imprisoned men bond over a number of years, finding solace and eventual redemption through acts of common decency.	9.3
2	The Godfather	1972-03-24	Crime	Francis Ford Coppola	175	The aging patriarch of an organized crime dynasty transfers control of his clandestine empire to his reluctant son.	9.2
3	The Dark Knight	2008-07-18	Action	Christopher Nolan	152	When the menace known as The Joker wreaks havoc and chaos on the people of Gotham, Batman must accept one of the greatest psychological and physical tests of his ability to fight injustice.	9
4	Pulp Fiction	1994-10-14	Crime	Quentin Tarantino	154	The lives of two mob hitmen, a boxer, a gangster and his wife, and a pair of diner bandits intertwine in four tales of violence and redemption.	8.9

2. Creating Users table;

```
CREATE TABLE users (
    user_id INT PRIMARY KEY,
    username VARCHAR(50) NOT NULL UNIQUE,
    password VARCHAR(255) NOT NULL
);
-- Inserting into the users table
INSERT INTO users VALUES (1, 'user1', 'user_password1');
INSERT INTO users VALUES (2, 'user2', 'user_password2');
INSERT INTO users VALUES (3, 'user3', 'user_password3');
INSERT INTO users VALUES (4, 'user4', 'user_password4');
```

user_id	username	password
1	user1	user_password1
2	user2	user_password2
3	user3	user_password3
4	user4	user_password4

Reviews Table:
```
CREATE TABLE reviews (
    review_id INT PRIMARY KEY,
    user_id INT UNIQUE,
    movie_id INT,
    rating DECIMAL(3,1) CHECK (rating<=10.0 and rating>=0),
    comnt varchar2(300) NOT NULL,
    FOREIGN KEY (user_id) REFERENCES users(user_id),
    FOREIGN KEY (movie_id) REFERENCES movies(movie_id)
);
INSERT INTO reviews VALUES (1, 1, 1, 8.5, 'Great movie! Really enjoyed the storyline.');
INSERT INTO reviews VALUES (2, 2, 2, 7.2, 'Decent film, but the acting could have been better.');
INSERT INTO reviews VALUES (3, 3, 3, 9.0, 'One of the best movies I have seen recently.');
INSERT INTO reviews VALUES (4, 4, 4, 6.5, 'Not my cup of tea, but might be enjoyable for others.');
```

review_id	user_id	movie_id	rating	comnt
1	1	1	8.5	Great movie! Really enjoyed the storyline.
2	2	2	7.2	Decent film, but the acting could have been better.
3	3	3	9	One of the best movies I have seen recently.
4	4	4	6.5	Not my cup of tea, but might be enjoyable for others.

DDL:

Add column in the table Movies:

ALTER TABLE movies ADD COLUMN location CHAR(20);

movie_id	title	release_date	genre	director	duration	description	rating	location
1	The Shawshank Redemption	1994-09-23	Drama	Frank Darabont	142	Two imprisoned men bond over a number of years, finding solace and eventual redemption through acts of common decency.	9.3	
2	The Godfather	1972-03-24	Crime	Francis Ford Coppola	175	The aging patriarch of an organized crime dynasty transfers control of his clandestine empire to his reluctant son.	9.2	
3	The Dark Knight	2008-07-18	Action	Christopher Nolan	152	When the menace known as The Joker wreaks havoc and chaos on the people of Gotham, Batman must accept one of the greatest psychological and physical tests of his ability to fight injustice.	9	
4	Pulp Fiction	1994-10-14	Crime	Quentin Tarantino	154	The lives of two mob hitmen, a boxer, a gangster and his wife, and a pair of diner bandits intertwine in four tales of violence and redemption.	8.9	

Rename a Column:

alter table movies rename column location to location2;

movie_id	title	release_date	genre	director	duration	description	rating	location2
1	The Shawshank Redemption	1994-09-23	Drama	Frank Darabont	142	Two imprisoned men bond over a number of years, finding solace and eventual redemption through acts of common decency.	9.3	
2	The Godfather	1972-03-24	Crime	Francis Ford Coppola	175	The aging patriarch of an organized crime dynasty transfers control of his clandestine empire to his reluctant son.	9.2	
3	The Dark Knight	2008-07-18	Action	Christopher Nolan	152	When the menace known as The Joker wreaks havoc and chaos on the people of Gotham, Batman must accept one of the greatest psychological and physical tests of his ability to fight injustice.	9	
4	Pulp Fiction	1994-10-14	Crime	Quentin Tarantino	154	The lives of two mob hitmen, a boxer, a gangster and his wife, and a pair of diner bandits intertwine in four tales of violence and redemption.	8.9	

Delete Column:
alter table movies drop column location2;

SELECT:

```
1  select * from movies where genre='Crime';
```

{} Output

movie_id	title	release_date	genre	director	duration	description	rating
2	The Godfather	1972-03-24	Crime	Francis Ford Coppola	175	The aging patriarch of an organized crime dynasty transfers control of his clandestine empire to his reluctant son.	9.2
4	Pulp Fiction	1994-10-14	Crime	Quentin Tarantino	154	The lives of two mob hitmen, a boxer, a gangster and his wife, and a pair of diner bandits intertwine in four tales of violence and redemption.	8.9

select genre from movies where genre like '%ime' union select username from users where username like '%e%';

genre
Crime
user1
user2
user3
user4

with max_number(val) as (select max(duration) from movies)
  select * from reviews, max_number where max_number.val >reviews.review_id;

review_id	user_id	movie_id	rating	comnt	val
1	1	1	8.5	Great movie! Really enjoyed the storyline.	175
2	2	2	7.2	Decent film, but the acting could have been better.	175
3	3	3	9	One of the best movies I have seen recently.	175
4	4	4	6.5	Not my cup of tea, but might be enjoyable for others.	175

select count(*) from reviews;

count(*)
4

select title,genre,avg(duration) from movies group by genre;

title	genre	avg(duration)
The Dark Knight	Action	152
The Godfather	Crime	164.5
The Shawshank Redemption	Drama	142

select user_id,comnt from reviews where movie_id = (select movie_id from movies where title = 'The Shawshank Redemption');

user_id	comnt
1	Great movie! Really enjoyed the storyline.

select * from users where user_id>=2 and exists(select password like 'user%%' from users);

user_id	username	password
2	user2	user_password2
3	user3	user_password3
4	user4	user_password4

select * from users natural join reviews;

user_id	username	password	review_id	movie_id	rating	comnt
1	user1	user_password1	1	1	8.5	Great movie! Really enjoyed the storyline.
2	user2	user_password2	2	2	7.2	Decent film, but the acting could have been better.
3	user3	user_password3	3	3	9	One of the best movies I have seen recently.
4	user4	user_password4	4	4	6.5	Not my cup of tea, but might be enjoyable for others.

select title,genre from movies left outer join reviews using(rating);

title	genre
The Shawshank Redemption	Drama
The Godfather	Crime
The Dark Knight	Action
Pulp Fiction	Crime

select title,genre from movies right outer join reviews using(rating);

title	genre
The Dark Knight	Action

select title,genre from movies full outer join reviews using(rating);

title	genre
The Shawshank Redemption	Drama
The Godfather	Crime
The Dark Knight	Action
Pulp Fiction	Crime

select title,genre from movies left outer join reviews on movies.movie_id=reviews.movie_id;

title	genre
The Shawshank Redemption	Drama
The Godfather	Crime
The Dark Knight	Action
Pulp Fiction	Crime

PL/SQL:

```
set serveroutput on
declare
v varchar(35);
begin
 select title into v from movies where genre = 'Drama';
 dbms_output.put_line('The move name of drama gnre is'||v);
end;
/
```

```
Statement processed.
The move name of drama gnre isThe Shawshank Redemption
```

```
set serveroutput on
declare
movie_tite movies.title%type;
movie_rating movies.rating%type;
movie_duration movies.duration%type;
begin
 select title, rating, duration into movie_tite, movie_rating, movie_duration from movies
where rating = 9;
dbms_output.put_line('Title--'||movie_tite||'
Rating---'||movie_rating||'Duration---'||movie_duration);
end;
/
```

```
Statement processed.
Title--The Dark Knight Rating---9Duration---152
```

```
set serveroutput on
declare
m movies%rowtype;
begin
 select title, rating, duration into m.title, m.rating, m.duration from movies
where rating = 9;
dbms_output.put_line('Title--'||m.title||' Rating---'||m.rating||'Duration---'||m.duration);
end;
/
```

```
Statement processed.
Title--The Dark Knight Rating---9Duration---152
```

```sql
set serveroutput on;
declare
cursor c is
select * from users;
u users%rowtype;
begin
 open c;
 fetch c into u.user_id,u.username,u.password;
  dbms_output.put_line(u.user_id||' '||u.username||' '||u.password);
while c%found loop
fetch c into u.user_id,u.username,u.password;
dbms_output.put_line(u.user_id||' '||u.username||' '||u.password);
end loop;
close c;
end;
/
```

```
Statement processed.
1 user1 user_password1
2 user2 user_password2
3 user3 user_password3
4 user4 user_password4
4 user4 user_password4
```

```sql
set serveroutput on;
declare
  type namearry is varray(5) of movies.title%type;
  arr namearry:=namearry();
  m movies%rowtype;
begin
  for i in 1..4  -- Loop iterates 4 times (from 1 to 4)
  loop
    select title into m.title from movies where movie_id = i;
    arr.extend();
    arr(i):=m.title;  -- Use arr.count to add to the end of the array
  END LOOP;

  for i in 1..4 -- Loop iterates over the elements in the array
  loop
    dbms_output.put_line(arr(i));
  end loop;
end;
/
```

```
set serveroutput on;
declare
  m movies%rowtype;
begin
  for i in 1..4
  loop
    select title into m.title from movies where movie_id = i;
    if m.title = 'The Godfather'
        then dbms_output.put_line('Crime');
end if;
  END LOOP;
end;
/
```

```
CREATE OR REPLACE PROCEDURE proc(
  var1 IN NUMBER,
  var2 OUT VARCHAR2
)
AS
  t_show CHAR(30);
BEGIN

  SELECT title INTO var2 FROM movies WHERE movie_id = var1;
dbms_output.put_line('Successful');
END;
/
```

```
set serveroutput on
declare
  var movies.title%type;
begin
```

```
    proc(1,var);
    dbms_output.put_line(var);
End;
/
```

Unsupported Command

Statement processed.
Successful
The Shawshank Redemption

```
set serveroutput on
create or replace function fun(var1 in varchar) return varchar AS
value reviews.comnt%type;
begin
  select comnt into value from reviews where review_id=var1;
   return value;
end;
/
```

Trigger:

```
SET SERVEROUTPUT ON;

CREATE OR REPLACE TRIGGER delete_reviews_on_movie_delete
BEFORE DELETE ON movies
FOR EACH ROW
BEGIN
   DELETE FROM reviews WHERE movie_id = :old.movie_id;
   DBMS_OUTPUT.PUT_LINE('Deleted reviews for movie: ' || :old.title);
END;
/
```

Trigger created.
DELETE FROM reviews WHERE review_id = 1;

REVIEW_ID	USER_ID	MOVIE_ID	RATING	COMNT
2	2	2	7.2	Decent film, but the acting could have been better.
3	3	3	9	One of the best movies I have seen recently.
4	4	4	6.5	Not my cup of tea, but might be enjoyable for others.

DELETE FROM movies WHERE movie_id = 1;

MOVIE_ID	TITLE	RELEASE_DATE	GENRE	DIRECTOR	DURATION	DESCRIPTION
3	The Dark Knight	18-JUL-08	Action	Christopher Nolan	152	When the menace known as The Joker wreaks havoc and chaos on the people of Gotham, Batman must accept ability to fight injustice.
4	Pulp Fiction	14-OCT-94	Crime	Quentin Tarantino	154	The lives of two mob hitmen, a boxer, a gangster and his wife, and a pair of diner bandits intertwine

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rows selected.

REVIEW_ID	USER_ID	MOVIE_ID	RATING	COMNT
3	3	3	9	One of the best movies I have seen recently.
4	4	4	6.5	Not my cup of tea, but might be enjoyable for others.