

--Tables

Create table Users(

User_ID number primary KEY ,

User_name varchar2(100) ,

Pass varchar2(255),

Email varchar2(100) ,

Role_type varchar2(50) Check (Role_type in ('USER','ADMIN')),

created_at date DEFAULT sysdate ,

ban CHAR(1) DEFAULT 'N' NOT NULL

);

ALTER TABLE Users

ADD reported_count number DEFAULT 0;

CREATE table Movies(

movie_id number primary key ,

title varchar2(255),

genre varchar2(100),

released_date date,

description varchar2(2000)

);

CREATE TABLE Actors (

actor_id NUMBER PRIMARY KEY,

actor_name VARCHAR2(255) NOT NULL

);

CREATE TABLE Movie_Actors (

```
movie_id NUMBER,  
actor_id NUMBER,  
PRIMARY KEY (movie_id, actor_id),  
FOREIGN KEY (movie_id) REFERENCES Movies(movie_id),  
FOREIGN KEY (actor_id) REFERENCES Actors(actor_id)  
);  
  
CREATE TABLE Reviews (  
    review_id NUMBER,  
    movie_id NUMBER NOT NULL,  
    user_id NUMBER NOT NULL,  
    review_text VARCHAR2(2000),  
    review_date DATE DEFAULT SYSDATE,  
    is_bad CHAR(1) DEFAULT 'N' NOT NULL,  
    PRIMARY KEY (user_id, movie_id),  
    FOREIGN KEY (movie_id) REFERENCES Movies(movie_id),  
    FOREIGN KEY (user_id) REFERENCES Users(User_ID),  
    CONSTRAINT chk_reviews_is_bad CHECK (is_bad IN ('N', 'Y'))  
);
```

```
ALTER TABLE Reviews ADD CONSTRAINT unique_REVIEW_ID UNIQUE (REVIEW_ID);
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```
ALTER TABLE Reviews
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```
ADD v_count number DEFAULT 0;
```

```
CREATE TABLE Ratings (  
    rating_id NUMBER,  
    movie_id NUMBER,
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user_id NUMBER,
rating NUMBER(3,1) CHECK (rating BETWEEN 0.0 AND 10.0),
rating_date DATE DEFAULT SYSDATE,
PRIMARY KEY (user_id, movie_id),
FOREIGN KEY (movie_id) REFERENCES Movies(movie_id),
FOREIGN KEY (user_id) REFERENCES Users(user_id)
);

ALTER TABLE Ratings ADD CONSTRAINT unique_rating_id UNIQUE (RATING_ID);

CREATE TABLE Watchlist (
    user_id number ,
    movie_id number,
    added_date date DEFAULT sysdate,
    PRIMARY KEY (user_id, movie_id),
    FOREIGN KEY (user_id) REFERENCES Users(user_id),
    FOREIGN KEY (movie_id) REFERENCES Movies(movie_id)
);

ALTER TABLE WATCHLIST
ADD TITLE varchar2(255);

```

--SEQUENCES

CREATE SEQUENCE User_seq

START WITH 1

INCREMENT BY 1;

CREATE OR REPLACE TRIGGER User_trigger

BEFORE INSERT ON Users

FOR EACH ROW

BEGIN

 SELECT User_seq.nextval INTO :new.User_ID FROM dual;

END;

CREATE SEQUENCE movie_seq

START WITH 1

INCREMENT BY 1;

CREATE OR REPLACE TRIGGER movie_trigger

BEFORE INSERT ON Movies

FOR EACH ROW

BEGIN

 SELECT movie_seq.nextval INTO :new.movie_id FROM dual;

END;

CREATE SEQUENCE act_seq

```
START WITH 1
INCREMENT BY 1;
CREATE OR REPLACE TRIGGER act_trigger
BEFORE INSERT ON Actors
FOR EACH ROW
BEGIN
    SELECT act_seq.nextval INTO :new.ACTOR_ID FROM dual;
END;
```

--PROCEDURES

```
create or replace PROCEDURE search_movies_by_title (  
    p_search_text IN VARCHAR2,  
    p_resultset OUT SYS_REFCURSOR  
)  
IS  
BEGIN  
    OPEN p_resultset FOR  
        SELECT DISTINCT m.movie_id, m.title, m.genre, m.released_date, m.description  
        FROM Movies m  
        WHERE LOWER(m.title) LIKE '%' || LOWER(p_search_text) || '%';  
END search_movies_by_title;
```

```
create or replace PROCEDURE ACT_NAMES (  
    id_in IN NUMBER,  
    P_RESULTSET OUT SYS_REFCURSOR  
)  
IS  
BEGIN  
    OPEN P_RESULTSET FOR
```

```
SELECT DISTINCT a.actor_name
FROM Actors a
JOIN Movie_Actors ma ON a.actor_id = ma.actor_id
WHERE ma.movie_id = id_in;
END ACT_NAMES;
```

```
create or replace PROCEDURE add_to_watchlist (
    p_movie_id IN NUMBER,
    p_user_id IN NUMBER,
    P_user_title in VARCHAR2,
    p_message OUT VARCHAR2
)
AS
    v_count NUMBER;
BEGIN
    SELECT COUNT(*) INTO v_count
    FROM WATCHLIST
    WHERE MOVIE_ID = p_movie_id AND USER_ID = p_user_id;

    IF v_count > 0 THEN
        p_message := 'Movie already in watchlist.';
    ELSE
        INSERT INTO WATCHLIST (MOVIE_ID, USER_ID, title)
        VALUES (p_movie_id, p_user_id, P_user_title);
        p_message := 'Movie added to watchlist.';
    END IF;
END;
```

END;

create or replace PROCEDURE submit_rating (

 p_movie_id IN NUMBER,

 p_user_id IN NUMBER,

 p_rating IN NUMBER

) AS

 v_count INTEGER;

BEGIN

 IF p_rating < 0.0 OR p_rating > 10.0 THEN

 RAISE_APPLICATION_ERROR(-20001, 'Rating must be between 0.0 and 10.0');

 END IF;

 SELECT COUNT(*) INTO v_count

 FROM Ratings

 WHERE movie_id = p_movie_id AND user_id = p_user_id;

 IF v_count > 0 THEN

 UPDATE Ratings

 SET rating = p_rating,

 rating_date = SYSDATE

 WHERE movie_id = p_movie_id AND user_id = p_user_id;

 ELSE


```
        INSERT INTO Ratings (movie_id, user_id, rating)
        VALUES (p_movie_id, p_user_id, p_rating);
    END IF;

    COMMIT;
END;
```

```
create or replace PROCEDURE submit_Report (
    p_user_id IN NUMBER,
    p_review_id IN NUMBER
) AS
    v1_count INTEGER;
    v2_count INTEGER;
BEGIN
    SELECT v_count INTO v1_count
    FROM Reviews
    WHERE review_id = p_review_id;

    SELECT REPORTED_COUNT INTO v2_count
    FROM users
    WHERE user_id = p_user_id;

    UPDATE reviews
    SET v_count = v1_count + 1,
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is_bad = 'Y'
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```
WHERE review_id = p_review_id;
```

```
UPDATE users
```

```
SET REPORTED_COUNT = v2_count + 1
```

```
WHERE user_id = p_user_id;
```

```
COMMIT;
```

```
END;
```

```
create or replace PROCEDURE submit_review(
```

```
    p_user_id    IN NUMBER,
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    p_movie_id   IN NUMBER,
```

```
    p_review_text IN VARCHAR2
```

```
)
```

```
IS
```

```
    v_count NUMBER;
```

```
BEGIN
```

```
    SELECT COUNT(*) INTO v_count
```

```
    FROM Reviews
```

```
    WHERE user_id = p_user_id AND movie_id = p_movie_id;
```

```
    IF v_count = 0 THEN
```

```
        INSERT INTO Reviews (user_id, movie_id, review_text)
```

```

VALUES (p_user_id, p_movie_id, p_review_text);
ELSE

UPDATE Reviews

SET review_text = p_review_text,

    review_date = SYSDATE

WHERE user_id = p_user_id AND movie_id = p_movie_id;
END IF;

COMMIT;
END;

create or replace PROCEDURE get_user(
    id_in IN NUMBER,
    USER_out OUT VARCHAR2,
    PASS_out OUT VARCHAR2,
    EMAIL_out OUT VARCHAR2,
    ROLE_TYPE_out OUT VARCHAR2,
    CREATED_AT_out OUT DATE,
    BAN_out OUT CHAR
) AS
BEGIN
    SELECT User_name, Pass, Email, Role_type, Created_at, Ban
    INTO USER_out, PASS_out, EMAIL_out, ROLE_TYPE_out, CREATED_AT_out, BAN_out
    FROM Users

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```
WHERE User_ID = id_in;

END get_user;


create or replace PROCEDURE sign_in(
    email_in IN VARCHAR2,
    password_in IN VARCHAR2,
    id_out OUT NUMBER
) AS
    temp NUMBER;
BEGIN
    SELECT user_id INTO temp
    FROM USERS
    WHERE email = email_in
    AND pass = password_in;

    id_out := temp;
END sign_in;
```