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Title of the Project: Movie Rating System

Description of the Project: In our project, we aim to develop a Movie Rating Application. We will have users in our database. Users will have a chance to rate contents such as movies, tv-series, documentaries. Users will see a list of contents and their ratings. In addition to content's ratings, users will be able to see information about these contents such as awards, release year, production company and music etc. Our Database application will store actors and directors' information.

CREATE TABLE Person

```
(pid: INTEGER AUTO_INCREMENT NOT NULL ,  
pname: CHAR(20),  
age: INTEGER),  
gender: Varchar (10) check (gender in ('Female','Male')),  
country: CHAR(20),  
type: ENUM("User", "Actor","Director) NOT NULL  
PRIMARY_KEY(pid)
```

)

CREATE TABLE User

```
(pid: INTEGER, NOT NULL  
username: CHAR(10),  
email:CHAR(15),
```

```
password: CHAR(8),  
type: ENUM("User") NOT NULL,  
PRIMARY_KEY(pid),  
FORIGEN_KEY (pid, type) REFERENCES Person (pid, type)  
)
```

CREATE TABLE Actor

```
(pid: INTEGER, NOT NULL  
type: ENUM("Actor") NOT NULL,  
PRIMARY_KEY(pid),  
FORIGEN_KEY (pid, type) REFERENCES Person (pid, type)  
)
```

CREATE TABLE Director

```
(pid: INTEGER, NOT NULL  
type: ENUM("Director") NOT NULL,  
PRIMARY_KEY(pid),  
FORIGEN_KEY (pid, type) REFERENCES Person (pid, type)  
)
```

CREATE TABLE Rates

```
(pid: INTEGER, NOT NULL,  
cid: INTEGER NOT NULL ,  
rid: rating: FLOAT(10) NOT NULL ,
```

```
PRIMARY_KEY(pid, cid),  
FORIGEN_KEY (pid) REFERENCES User (pid)  
FORIGEN_KEY (cid) REFERENCES Content (cid)  
)
```

```
CREATE TABLE Directs (  
    pid: INTEGER, NOT NULL,  
    cid: INTEGER NOT NULL ,  
    year: DATE NOT NULL ,  
    PRIMARY_KEY(pid, cid),  
    FORIGEN_KEY (pid) REFERENCES Director (pid)  
    FORIGEN_KEY (cid) REFERENCES Content (cid)  
)
```

```
CREATE TABLE Content (  
    cid: INTEGER AUTO_INCREMENT NOT NULL ,  
    genre: ENUM("Movie", "Tv_Series", "Documentary") NOT NULL,  
    cname: CHAR(20),  
    rating: FLOAT(10),  
    PRIMARY_KEY(cid),  
)
```

```
CREATE TABLE Movie (  
    cid: INTEGER, NOT NULL
```

```
    cname: CHAR(10),  
    rating: INTEGER,  
    genre :CHAR(15),  
    type: ENUM("Movie") NOT NULL,  
    PRIMARY_KEY(cid),  
    FORIGEN_KEY (cid, genre) REFERENCES Content (cid, genre)  
)
```

```
CREATE TABLE TV_Series (  
    cid: INTEGER, NOT NULL  
    type: ENUM("TV_Series") NOT NULL,  
    PRIMARY_KEY(cid),  
    FORIGEN_KEY (cid, genre) REFERENCES Content (cid, genre)  
)
```

```
CREATE TABLE Documentary (  
    cid: INTEGER, NOT NULL  
    type: ENUM("Documentary") NOT NULL,  
    PRIMARY_KEY(cid),  
    FORIGEN_KEY (cid, genre) REFERENCES Content (cid, genre)  
)
```

```
CREATE TABLE Plays (  
    pid: INTEGER, NOT NULL,
```

```
cid: INTEGER NOT NULL ,  
year: DATE NOT NULL ,  
PRIMARY_KEY(pid, cid),  
FORIGEN_KEY (pid) REFERENCES Actor (pid)  
FORIGEN_KEY (cid) REFERENCES Content (cid)  
)
```

```
CREATE TABLE Has (  
award_id: INTEGER, NOT NULL,  
cid: INTEGER NOT NULL ,  
PRIMARY_KEY(award_id),  
FORIGEN_KEY (award_id) REFERENCES Award (award_id)  
FORIGEN_KEY (cid) REFERENCES Content (cid)  
)
```

```
CREATE TABLE Award (  
award_id: INTEGER AUTO_INCREMENT NOT NULL,  
category: CHAR(15),  
year: DATE NOT NULL,  
name: CHAR(30),  
PRIMARY_KEY(award_id),  
)
```

```
CREATE TABLE Production_Company (
```

```

        contract_id: INTEGER AUTO_INCREMENT NOT NULL,
        company_name: CHAR(30),
        PRIMARY_KEY(contract_id),
    )

CREATE TABLE Produced_By (
    contract_id: INTEGER, NOT NULL,
    cid: INTEGER NOT NULL ,
    PRIMARY_KEY(contract_id, cid),
    FORIGEN_KEY (contract_id) REFERENCES Production_Company(contract_id)
    FORIGEN_KEY (cid) REFERENCES Content (cid)
)

CREATE TABLE Music (
    mid: INTEGER AUTO_INCREMENT NOT NULL,
    mname: CHAR(25),
    type: CHAR(15),
    PRIMARY_KEY(mid),
)

CREATE TABLE Is_Used_By (
    mid: INTEGER NOT NULL,
    cid: INTEGER NOT NULL ,
    PRIMARY_KEY(mid, cid),
    FORIGEN_KEY (cid) REFERENCES Content (cid)
    FORIGEN_KEY (mid) REFERENCES Music (mid)
)

```

