Data Base Management System PROJECT

Group 8 : OTT system

Group Details:

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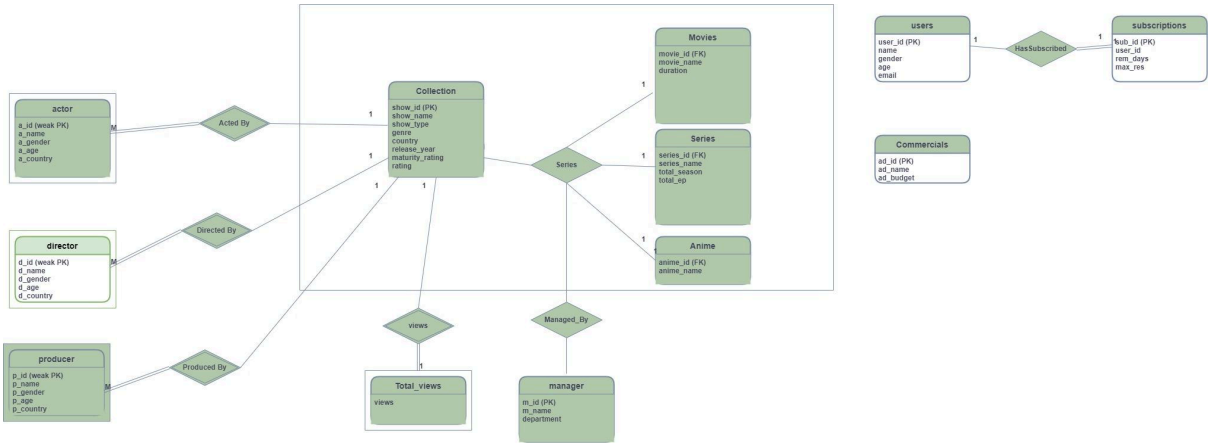
Entity Relationship Diagram :



In our project we tried to form a database system of OTT plat-form. Here, we stored a collection of shows, movies, tv shows, users etc. These are various entities and here we used the concept of total participation, aggregation, weak entity set etc.

QUERIES

Q1) Print movie list which has actor age less than 40 and genre horror , and views are greater than 20000000. (COMPLEX)

Query

```
SELECT e.*
from
(
SELECT distinct a.show_id as id
FROM collections as a
join actors as b on a.show_id = b.show_id
join views as c on a.show_id = c.show_id
where a.genre = 'Horror' and b.actor_age < 40 and c.views > 20000000
    ) as req , collections as e
    where req.id = e.show_id
```

Output:

Data output | Query History | Messages | Notifications

	show_id [PK] character varying	show_name character varying	show_type character varying	rating bigint	genre character varying	country character varying	age_limit character varying	year bigint
1	16	Blood & Water	tv show	6	Horror	Sri Lanka	kids	2021
2	19	Kota Factory	tv show	9	Horror	India	adults	2021

Q2) Find the suitable advertisement for show_id = 33. (COMPLEX)

Query

```
1  with price as
2  (select views/100 as req
3  from views
4  where show_id = '33')
5
6  select *
7  from advertisements as a , price as b
8  where a.investment  >= b.req
```

Output :

Data output | Query History | Messages | Notifications

	ad_id [PK] character varying	ad_name character varying	investment bigint	req bigint
1	1	rummy	13622583	5844878
2	2	coca cola	12664527	5844878
3	3	tata	11706471	5844878
4	4	mutual fund	10748415	5844878
5	5	jio	9790359	5844878
6	6	maggi	8832303	5844878
7	7	badshah masala	7874247	5844878
8	9	nike	5958135	5844878

Q3) FIND THE AMOUNT OF PRODUCER HAS EARN BY OTT PLATFORM.IT IS GIVEN THAT OTT PLATFORM GIVE 0.02 DOLLARS FOR EACH VIEWS ON SHOW. (COMPLEX)

Query

```
1  select prod , sum(earn)
2
3  from (
4    select b.p_name as prod , c.views*0.02 as earn
5    from collections as a , producer as b , views as c
6    where a.show_id = b.show_id and b.show_id = c.show_id
7   ) as tab
8
9   group by(prod)
```

Output:

Data output | Query History | Messages | Notifications

	prod character varying	sum numeric
1	Ikram Akhtar	4671807.96
2	Farhan Akhtar	4139839.34
3	Esther Victoria Abraham	15539076.80
4	Nikkhil Advani	20834764.40
5	John Abraham	17211713.72
6	Ashim Ahluwalia	26831762.84
7	Arun Kumar Ahuja	30394893.48
8	Khwaja Ahmad Abbas	11929416.38
9	Dev Anand	9319146.90
10	Ravi Agrawal (film produc...	23268692.20

Q4) Print movie name whose duration/time is highest/Lowest. (SIMPLE)

Query

```
1  SELECT movie_id, movie_name , movie_duration
2  FROM movies
3  WHERE movie_duration = (SELECT MIN(movie_duration) FROM movies)
4
5  UNION
6
7  SELECT movie_id, movie_name , movie_duration
8  FROM movies
9  WHERE movie_duration = (SELECT MAX(movie_duration) FROM movies)
10
```

Data output | Query History | Messages | Notifications

	movie_id character varying	movie_name character varying	movie_duration bigint
1	40	Safe House	220
2	4	The Starling	90
3	31	Ankahi Kahaniya	90
4	13	Grown Ups	90

Q5) Find the name of actors who worked in show_id = 7. (SIMPLE)

Query :

Query

```
1
2
3  select b.actor_name
4  from collections as a  , actors as b , directors as c
5  where a.show_id = b.show_id and b.show_id = c.show_id and a.show_id = '7'
6  order by a.show_id
7  -- group a.show_id
```

Output :

Data output | Query History | Messages | Notifications

	actor_name character varying
1	Kiara Advani
2	Salman Khan
3	Hritik Roshan

Q6) Plans that are going to expire within 1 week. (SIMPLE)

Query

```
SELECT u.user_id, u.user_name, s.sub_id, s.plan_rem
FROM users u, subscriptions s
WHERE s.plan_rem < 7 and
s.user_id = u.user_id
```

Data output | Query History | Messages | Notifications

	user_id bigint	user_name character varying	sub_id character varying	plan_rem bigint
1	5	Aanandi	105	5
2	6	Diya	106	1
3	16	Shivani	116	5
4	17	Neha	117	1
5	27	Paras	127	5
6	28	Avi	128	1