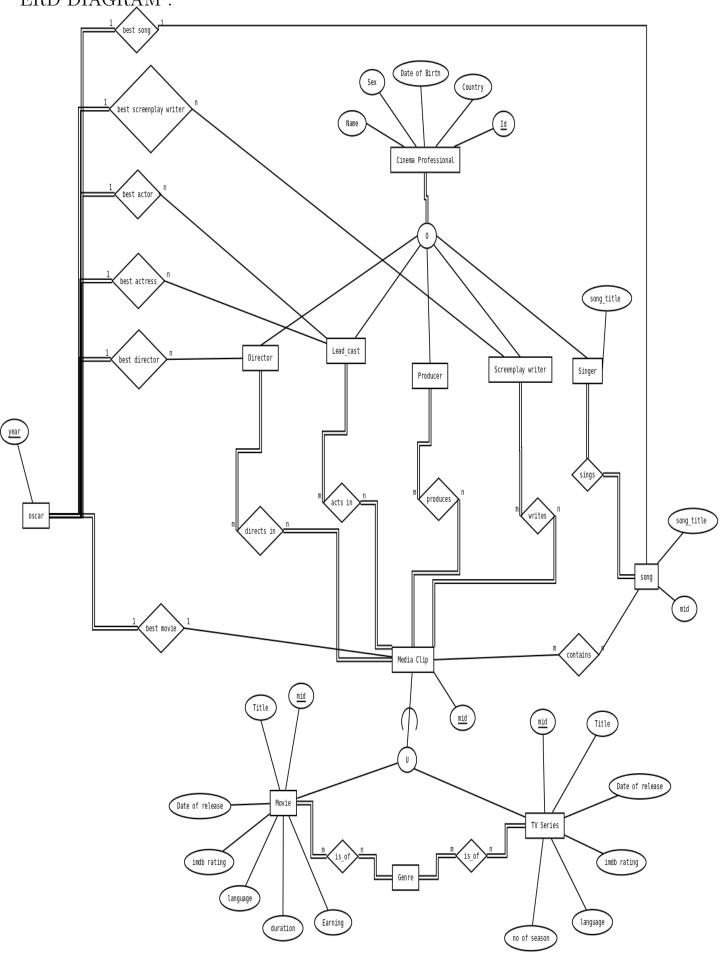
IIITV MOVIE/TV DATABASE

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 $\label{eq:project_title} \mbox{Project Title}: \mbox{IIITV MOVIE/TV DATABASE}$

ERD DIAGRAM:

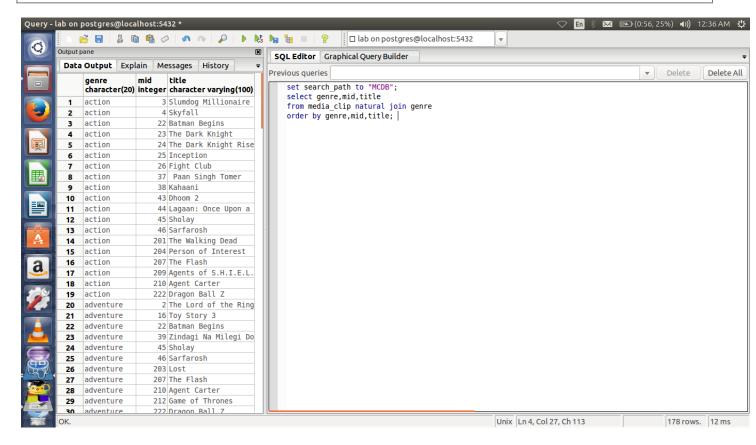


SCHEMA: Cinema profession -Id ∘Name ∘Sex Date of birth ∘Country Oscar *Year ∘best song title ∘best screenplay id best actor id ∘best actress id Singer obest director id •ID ∘best movie id •song title Screenplay Producer Lead cast Director ٠ID •ID ٠ID •ID Song ₩Id •MId •MId •MId <u>MId</u> song title ٥Id Media Clip •MId ∘Type ∘Title Date of release ∘Imdb_Rating Genre ∘Language •MId ∘Duration •genre ∘Earnings ∘No of season

SQL QUERIES:

1. QUESTION : List all the media clips and order by genre. SOL:

```
set search_path to "MCDB";
select genre, mid, title
from media_clip natural join genre
order by genre, mid, title;
```

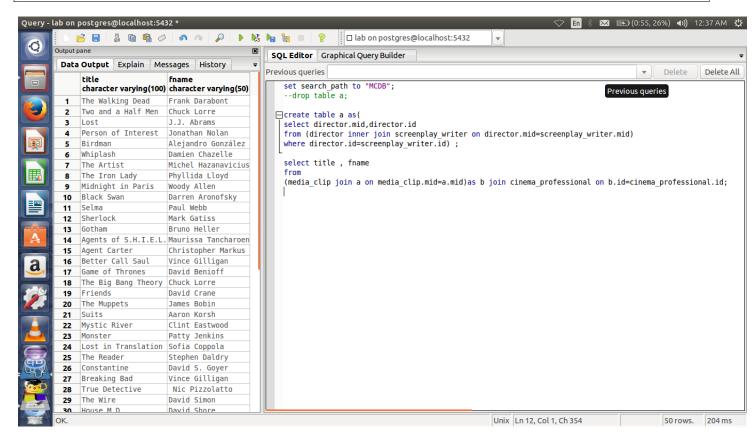


2. QUESTION : List the media_clip in which the director is also a writer SQL:

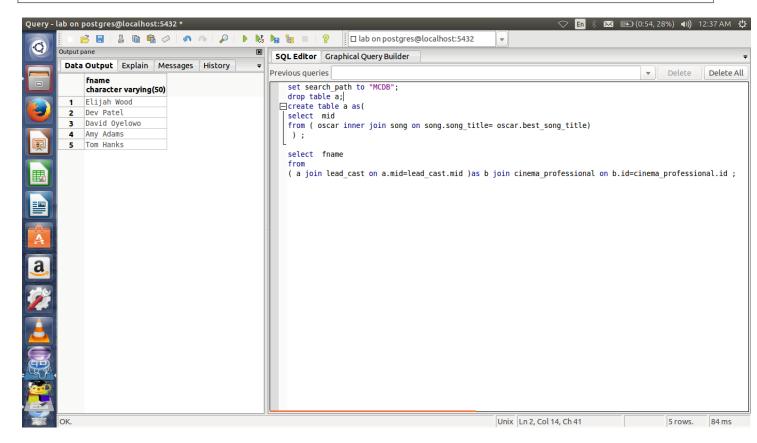
```
set search_path to "MCDB";
—drop table a;

create table a as(
    select director.mid, director.id
    from (director inner join screenplay_writer on director.mid=screenplay_writer.mid)
    where director.id=screenplay_writer.id);

select title , fname
    from
    (media_clip join a on media_clip.mid=a.mid)as b join cinema_professional on b.id=
        cinema_professional.id;
```

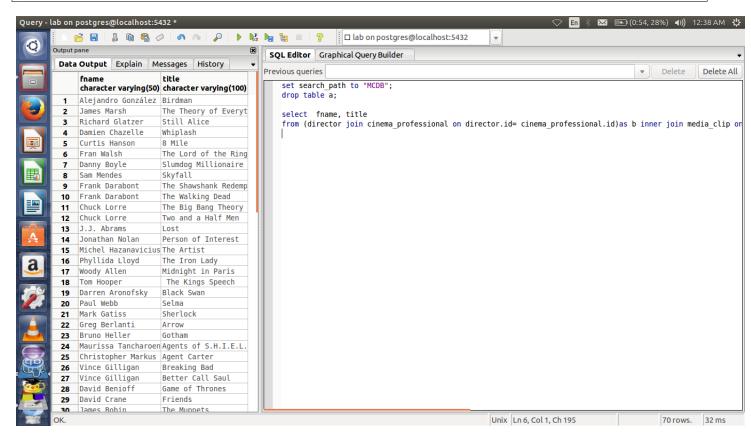


3. QUESTION : List lead cast of the movies of all the best songs SQL :



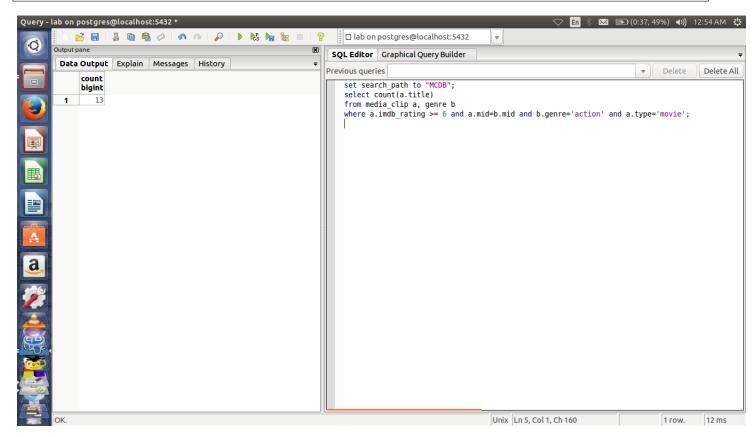
4. QUESTION : Name the directors with distinct media_clip present in database SQL:

```
drop table a;
select fname, title
from (director join cinema_professional on director.id= cinema_professional.id)as b inner
    join media_clip on b.mid=media_clip.mid;
```



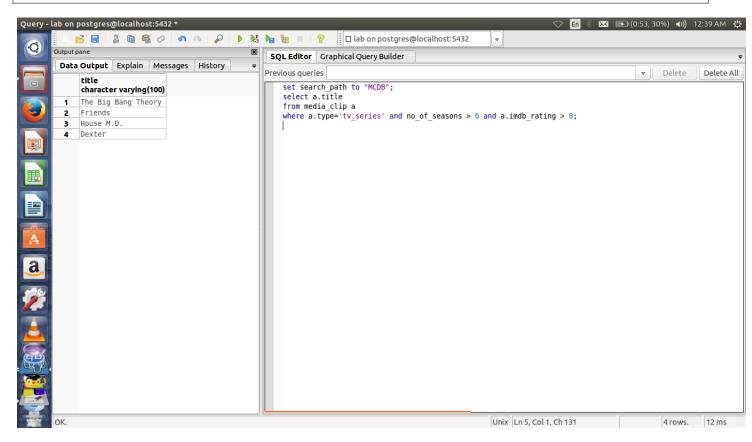
5. QUESTION : count the no. of movies in genre action whose imdb rating is 6.0 or above SQL:

```
select count(a.title)
from media_clip a, genre b
where a.imdb_rating >= 6 and a.mid=b.mid and b.genre='action' and a.type='movie';
```



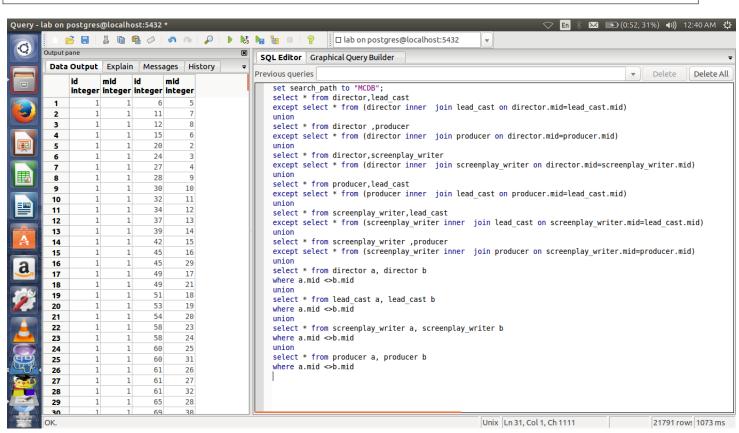
6. QUESTION : list the tv series with no of seasons ${\it i}6$ and rating above 8 SQL:

```
select a.title
from media_clip a
where a.type='tv_series' and no_of_seasons > 6 and a.imdb_rating > 8;
```

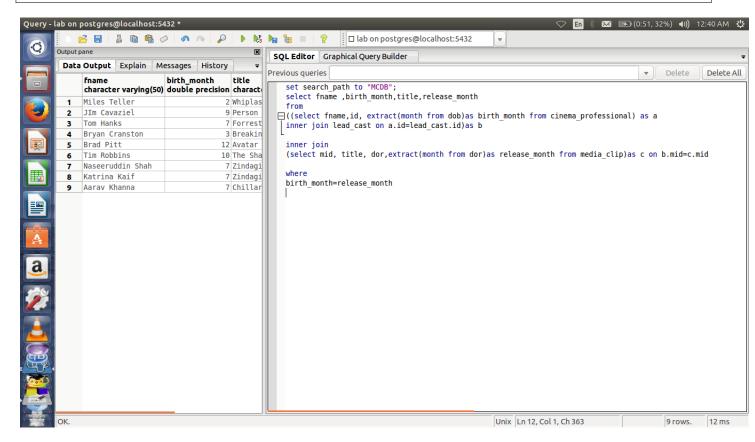


7. QUESTION: List the pairs of cinema professional which never worked together in a movie. SQL:

```
select * from director, lead_cast
except select * from (director inner join lead_cast on director.mid=lead_cast.mid)
union
select * from director ,producer
except select * from (director inner join producer on director.mid=producer.mid)
union
select * from director, screenplay_writer
except select * from (director inner join screenplay_writer on director.mid=
   screenplay_writer.mid)
union
select * from producer,lead_cast
except select * from (producer inner join lead_cast on producer.mid=lead_cast.mid)
select * from screenplay_writer,lead_cast
except select * from (screenplay_writer inner join lead_cast on screenplay_writer.mid=
   lead_cast.mid)
select * from screenplay_writer ,producer
except select * from (screenplay_writer inner join producer on screenplay_writer.mid=
   producer.mid)
select * from director a, director b
where a.mid <>b.mid
union
select * from lead_cast a, lead_cast b
where a.mid <>b.mid
select * from screenplay_writer a, screenplay_writer b
where a.mid <>b.mid
union
select * from producer a, producer b
where a.mid <>b.mid
```

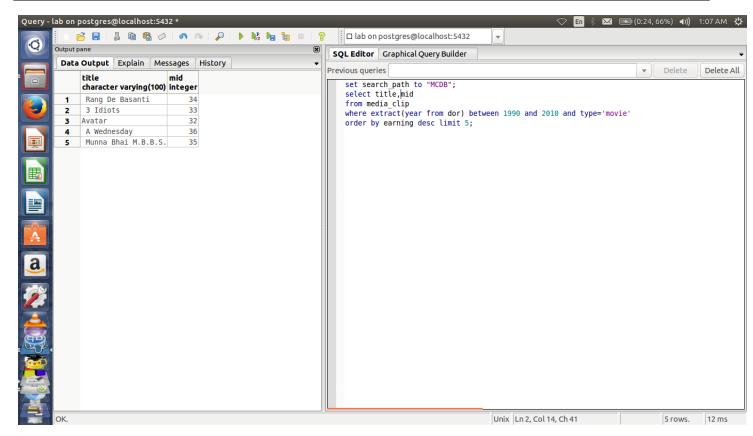


8. QUESTION : Name the lead cast having the movie release date in his birth month. SQL:



9. QUESTION : list the top 5 grossing movies from year 1990 to 2010 SQL:

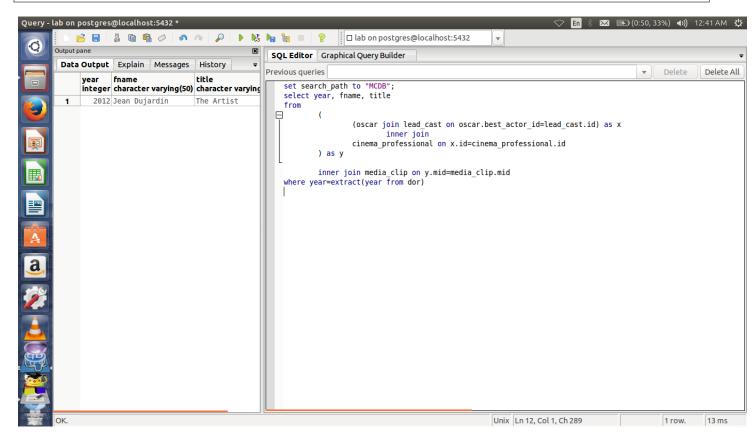
```
set search_path to "MCDB";
select title ,earning ,mid
from media_clip
where extract(year from dor) between 1990 and 2010 and type='movie'
order by earning desc limit=5
```



10. QUESTION : list all the best actor and their movies/tvseries in that particular year SQL:

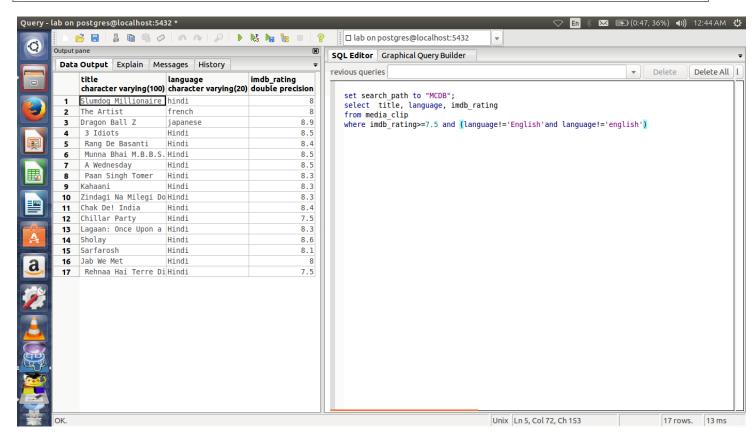
```
set search_path to "MCDB";
select year, fname, title
from
   (
   (oscar join lead_cast on oscar.best_actor_id=lead_cast.id) as x
    inner join
    cinema_professional on x.id=cinema_professional.id
) as y

inner join media_clip on y.mid=media_clip.mid
where year=extract(year from dor)
```



11. QUESTION : List the films and tv series with language other than english and imdb rating above 7.5 SQL:

```
set search_path to "MCDB";
select title, language, imdb_rating
from media_clip
where imdb_rating >=7.5 and language!='English'
```



Functional dependencies of different entity or relational Oscar	
year best song title best screenplay id best actor id best actress id	best director id best movie
FD's	
$year \rightarrow best song title$	
$year \rightarrow best screenplay id$	
$year \rightarrow best actor id$	
$year \rightarrow best actress id$	
$year \rightarrow best director id$	
$year \rightarrow best movie id$	
Media Clip	
MId Type Title Date of release Imdb_Rating Language Duration	n Earnings No of season
FD's	
$Mid \rightarrow Type$	
$Mid \rightarrow Title$	
$Mid \rightarrow Date of release$	
$\mathrm{Mid} \to \mathrm{Imdb_Rating}$	
$Mid \rightarrow Language$	
$\operatorname{Mid} \to \operatorname{Duration}$	
$Mid \rightarrow Earnings$	
$Mid \rightarrow No of season$	
Cinema profession	
Id Name Sex Date of birth Country	
FD's	
$Id \rightarrow Name$	
$\mathrm{Id} \to \mathrm{Sex}$	
$Id \rightarrow Date of birth$	
$\mathrm{Id} \to \mathrm{Country}$	
Genre	
Mid genre	
ind gome	
FD's	
$\mathrm{Mid} \to \mathrm{genre}$	
Director	
Mid ID	
FD's	
${\text{Mid,Id}} \to {\text{Mid,Id}}$	
Producer	
Mid ID	
ED)	
FD's	
${\rm \{Mid,Id\}} \to {\rm \{Mid,Id\}}$	
Screenplay writor	
Mid ID	
FD's	
${\rm \{Mid,Id\}} \to {\rm \{Mid,Id\}}$	

Lead Cast Mid ID best movie id

FD's

 $\{\mathrm{Mid},\mathrm{Id}\} \to \{\mathrm{Mid},\mathrm{Id}\}$

Singer

song_title ID

FD's

 $\{song_title,Id\} \rightarrow \{song_title,Id\}$

 $\frac{\text{Song}}{\text{MId}}$ song_title | Id

FD's

 $\{ \text{Mid,song_title} \} \rightarrow \text{song_title}$