Cinema DB report

Team 5

CSE Database systems

Submitted to
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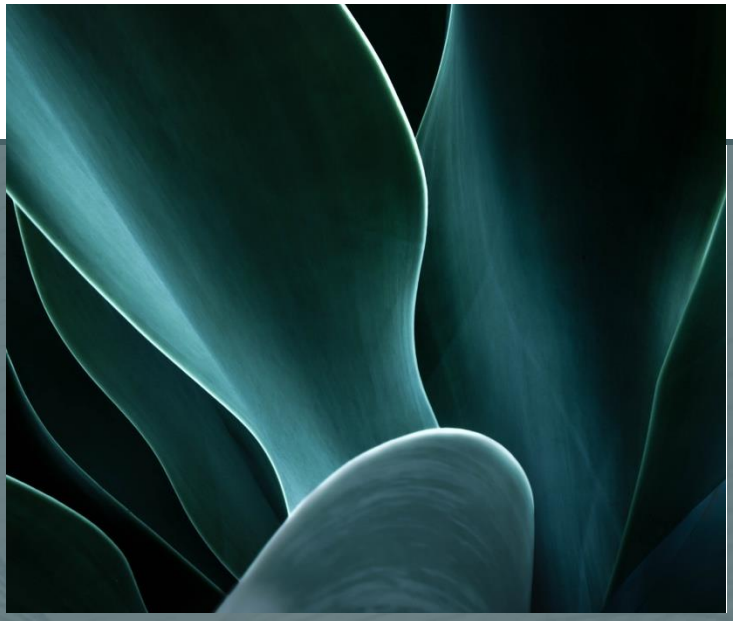
Introduction

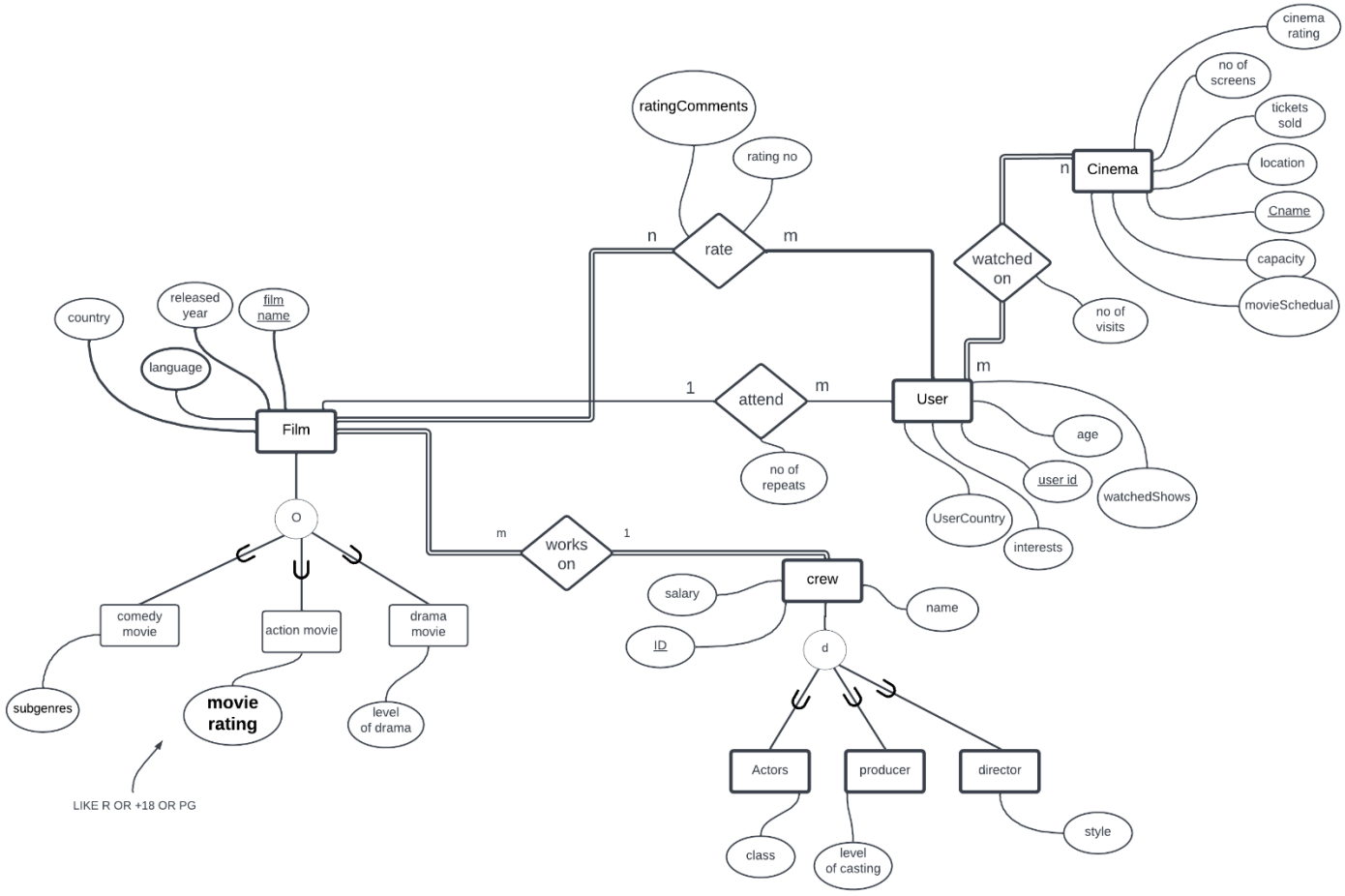
Cinemaindustry has been a part of the entertainment industry for a long time. It creates a massive impact on people all over the world. In other words, it helps them give a break from monotony. It has evolved greatly in recent years too. Cinema is a great escape from real life.



EER Diagram

We aim to provide :
online database of information related to

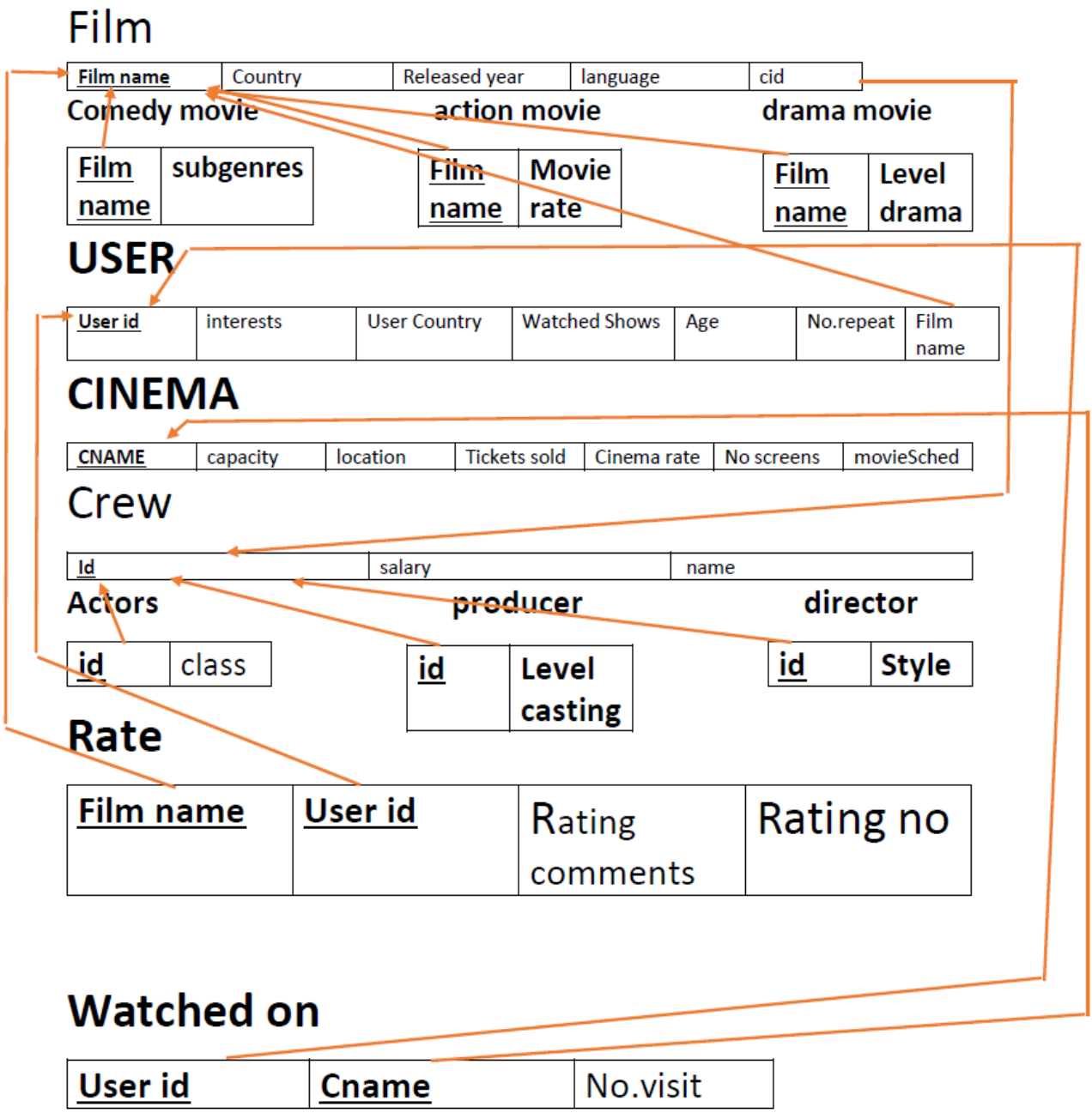
- Films
- cinemas
- Crew
- Users
- Users reviews



This diagram was enhanced according to prof's comments on the older version

Relation Modeling

- We come up with this by converting the previews eer diagram:



DDL PART :

```
--
-- Database: `cinema`
--

-- --------------------------------------------------------

--
-- Table structure for table `action movie`
--

CREATE TABLE `action movie` (
  `film name` varchar(60) NOT NULL,
  `Movie  rate` varchar(45) DEFAULT NULL
) ENGINE=InnoDB DEFAULT CHARSET=utf8;

--
-- Dumping data for table `action movie`
--

INSERT INTO `action movie` (`film name`, `Movie  rate`) VALUES
('batman', 'rated'),
('ben10', 'PG'),
('hitman', 'R');

-- --------------------------------------------------------

--
-- Table structure for table `actors`
--

CREATE TABLE `actors` (
  `id` int(11) NOT NULL,
  `class` varchar(45) DEFAULT NULL
) ENGINE=InnoDB DEFAULT CHARSET=utf8;

--
-- Dumping data for table `actors`
--

INSERT INTO `actors` (`id`, `class`) VALUES
(11, 'pro'),
(22, 'pro'),
```

```
(33, 'combars'),
(44, 'combars'),
(55, 'pro'),
(66, 'pro');

-- --------------------------------------------------------

--
-- Table structure for table `cinema`
--

CREATE TABLE `cinema` (
  `CNAME` varchar(60) NOT NULL,
  `capacity` int(11) DEFAULT NULL,
  `location` varchar(45) DEFAULT NULL,
  `Tickets sold` int(11) DEFAULT NULL,
  `Cinema rate` float DEFAULT NULL,
  `No screens` int(11) DEFAULT NULL,
  `movieSched` varchar(80) DEFAULT NULL
) ENGINE=InnoDB DEFAULT CHARSET=utf8;

--
-- Dumping data for table `cinema`
--

INSERT INTO `cinema` (`CNAME`, `capacity`, `location`, `Tickets sold`, `Cinema rate`, `No screens`, `movieSched`) VALUES
('el-cima', 85, 'cairo', 85, 9.8, 12, 'all dayes'),
('goma', 100, 'alex', 80, 8, 11, 'all dayes'),
('moro', 37, 'giza', 20, 6.2, 3, 'mondayonly'),
('nemo', 20, 'cairo', 30, 7.3, 6, 'all dayes'),
('oplex', 50, 'suez', 25, 6.2, 5, 'all dayes'),
('shahed', 50, 'cairo', 30, 7.9, 5, 'mondayonly');

-- --------------------------------------------------------

--
-- Table structure for table `comedy movie`
--

CREATE TABLE `comedy movie` (
  `film name` varchar(60) NOT NULL,
  `subgenres` varchar(45) DEFAULT NULL
) ENGINE=InnoDB DEFAULT CHARSET=utf8;

--
-- Dumping data for table `comedy movie`
--
```

```
INSERT INTO `comedy movie` (`film name`, `subgenres`) VALUES
('the fish', 'Dark Comedy '),
('zbider man', 'Action Comedy');

-- --------------------------------------------------------

--
-- Table structure for table `crew`
--

CREATE TABLE `crew` (
  `Id` int(11) NOT NULL,
  `salary` int(11) DEFAULT NULL,
  `name` varchar(45) DEFAULT NULL
) ENGINE=InnoDB DEFAULT CHARSET=utf8;

--
-- Dumping data for table `crew`
--

INSERT INTO `crew` (`Id`, `salary`, `name`) VALUES
(8, 7000, 'ibrahim'),
(9, 2000, 'mostafa'),
(10, 3000, 'mostafa'),
(11, 5000, 'hoda'),
(22, 3000, 'ahmed'),
(33, 8000, 'ahmed'),
(44, 2000, 'omar'),
(55, 9000, 'fady'),
(66, 8000, 'tamer'),
(77, 5000, 'ahmed');

-- --------------------------------------------------------

--
-- Table structure for table `director`
--

CREATE TABLE `director` (
  `id` int(11) NOT NULL,
  `Style` varchar(45) DEFAULT NULL
) ENGINE=InnoDB DEFAULT CHARSET=utf8;

--
-- Dumping data for table `director`
--

INSERT INTO `director` (`id`, `Style`) VALUES
(8, 'The creative artist'),
```

```
(77, 'The negotiator');

-- --------------------------------------------------------

--
-- Table structure for table `drama movie`
--

CREATE TABLE `drama movie` (
  `film name` varchar(60) NOT NULL,
  `Level of drama` varchar(45) DEFAULT NULL
) ENGINE=InnoDB DEFAULT CHARSET=utf8;

--
-- Dumping data for table `drama movie`
--

INSERT INTO `drama movie` (`film name`, `Level of drama`) VALUES
('lion king', 'farce'),
('nights', 'musical drama');

-- --------------------------------------------------------

--
-- Table structure for table `film`
--

CREATE TABLE `film` (
  `filmname` varchar(60) NOT NULL,
  `country` varchar(45) DEFAULT NULL,
  `released year` varchar(45) DEFAULT NULL,
  `language` varchar(45) DEFAULT NULL,
  `cid` int(11) DEFAULT NULL
) ENGINE=InnoDB DEFAULT CHARSET=utf8;

--
-- Dumping data for table `film`
--

INSERT INTO `film` (`filmname`, `country`, `released year`, `language`, `cid`) VALUES
('batman', 'us', '2009', 'english', 8),
('ben10', 'qatar', '2020', 'arabic', 10),
('hitman', 'egypt', '2015', 'arabic', 10),
('lion king', 'england', '2000', 'english', 8),
('nights', 'us', '2010', 'english', 9),
('the fish', 'brazil', '1950', 'english', 10),
('zbider man', 'egypt', '2022', 'arabic', 9);

-- --------------------------------------------------------
```

```
--
-- Table structure for table `producer`
--

CREATE TABLE `producer` (
  `id` int(11) NOT NULL,
  `Level of casting` varchar(45) DEFAULT NULL
) ENGINE=InnoDB DEFAULT CHARSET=utf8;

--
-- Dumping data for table `producer`
--

INSERT INTO `producer` (`id`, `Level of casting`) VALUES
(9, 'class S'),
(10, 'class B');

-- --------------------------------------------------------

--
-- Table structure for table `rate`
--

CREATE TABLE `rate` (
  `Film name` varchar(60) NOT NULL,
  `User id` int(11) NOT NULL,
  `Rating comments` varchar(45) DEFAULT NULL,
  `Rating no` int(11) DEFAULT NULL
) ENGINE=InnoDB DEFAULT CHARSET=utf8;

--
-- Dumping data for table `rate`
--

INSERT INTO `rate` (`Film name`, `User id`, `Rating comments`, `Rating no`) VALUES
('batman', 1, 'very angry', 998),
('batman', 2, 'habby', 985),
('batman', 3, 'angry', 980),
('lion king', 8, 'habby', 973),
('lion king', 9, 'habby', 915);

-- --------------------------------------------------------

--
-- Table structure for table `user`
--

CREATE TABLE `user` (
```

```
  `User id` int(11) NOT NULL,
  `interests` varchar(45) DEFAULT NULL,
  `User Country` varchar(45) DEFAULT NULL,
  `Watched Shows` varchar(45) DEFAULT NULL,
  `age` int(11) DEFAULT NULL,
  `repeats of attendance` int(11) DEFAULT NULL,
  `film attended` varchar(60) DEFAULT NULL
) ENGINE=InnoDB DEFAULT CHARSET=utf8;

--
-- Dumping data for table `user`
--

INSERT INTO `user` (`User id`, `interests`, `User Country`, `Watched Shows`, `age`, `repeats of
attendance`, `film attended`) VALUES
(1, 'comedy', 'egypt', 'zbider/the fish', 20, 2, 'batman'),
(2, 'comedy', 'us', 'zbider/ben10', 22, 1, 'batman'),
(3, 'action', 'egypt', 'zbider/the fish', 17, 1, 'batman'),
(4, 'action', 'us', 'ben10/nights', 16, 8, 'the fish'),
(5, 'comedy', 'us', 'zbider/batman', 28, 1, 'nights'),
(6, 'comedy', 'brazil', 'zbider/hitman', 30, 3, 'nights'),
(7, 'drama', 'egypt', 'zbider/the fish', 52, 1, 'lion king'),
(8, 'drama', 'egypt', 'zbider/the fish', 49, 1, 'lion king'),
(9, 'drama', 'us', 'zbider/the fish', 62, 6, 'lion king');

-- --------------------------------------------------------

--
-- Table structure for table `watched on`
--

CREATE TABLE `watched on` (
  `User id` int(11) NOT NULL,
  `Cname` varchar(60) NOT NULL,
  `no of visits` int(11) DEFAULT NULL
) ENGINE=InnoDB DEFAULT CHARSET=utf8;

--
-- Dumping data for table `watched on`
--

INSERT INTO `watched on` (`User id`, `Cname`, `no of visits`) VALUES
(1, 'goma', 2),
(2, 'shahed', 1),
(3, 'nemo', 1),
(4, 'oplex', 8),
(5, 'oplex', 1),
(6, 'nemo', 3),
(7, 'shahed', 1),
```

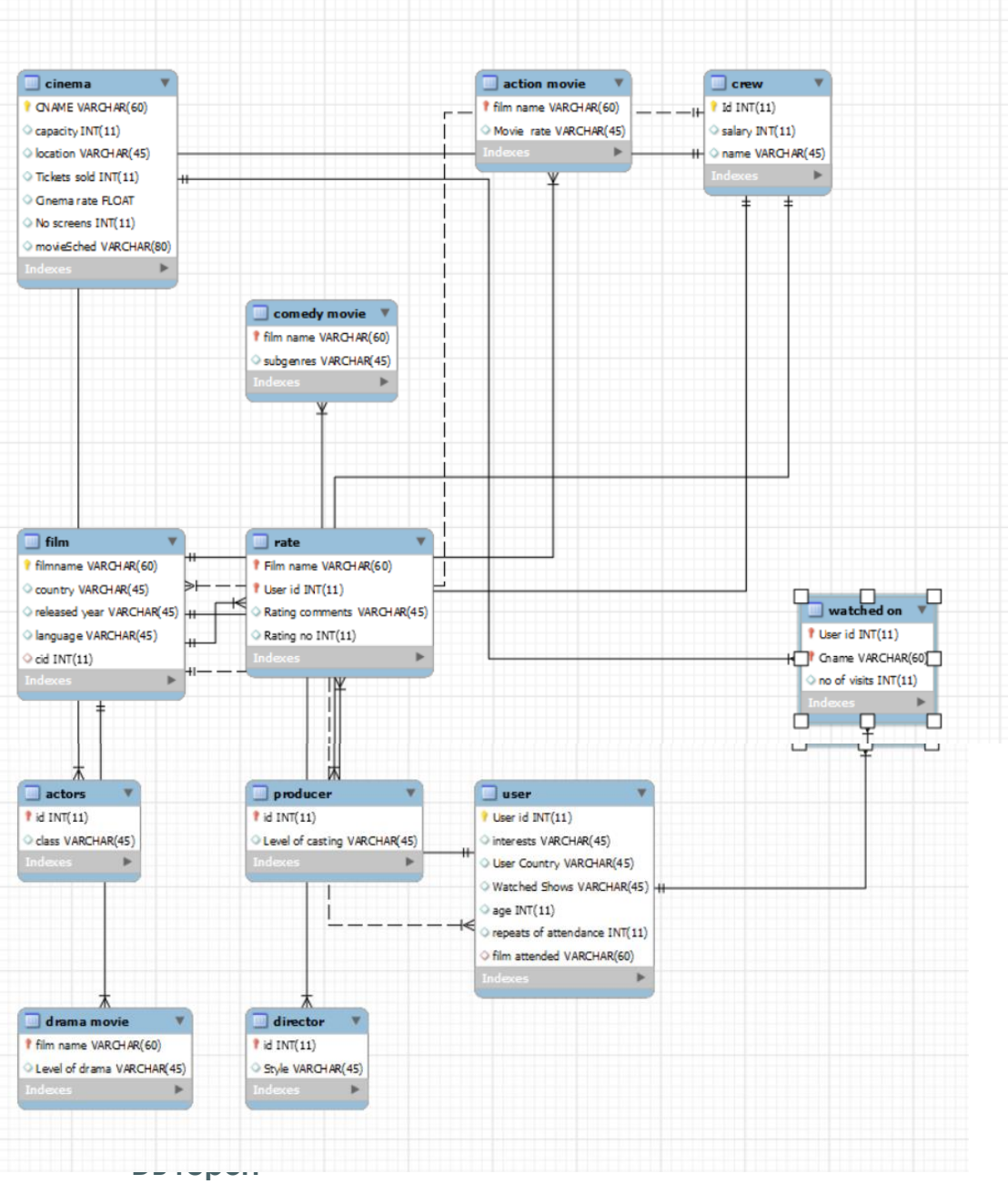
```
(8, 'shahed', 1),
(9, 'goma', 6);

--
-- Indexes for dumped tables
--

--
-- Indexes for table `action movie`
--
ALTER TABLE `action movie`
  ADD PRIMARY KEY (`film name`);

--
-- Indexes for table `actors`
--
ALTER TABLE `actors`
  ADD PRIMARY KEY (`id`);

--
-- Indexes for table `cinema`
--
ALTER TABLE `cinema`
  ADD PRIMARY KEY (`CNAME`);

--
-- Indexes for table `comedy movie`
--
ALTER TABLE `comedy movie`
  ADD PRIMARY KEY (`film name`);

--
-- Indexes for table `crew`
--
ALTER TABLE `crew`
  ADD PRIMARY KEY (`Id`);

--
-- Indexes for table `director`
--
ALTER TABLE `director`
  ADD PRIMARY KEY (`id`);

--
-- Indexes for table `drama movie`
--
ALTER TABLE `drama movie`
  ADD PRIMARY KEY (`film name`);
```

```
--
-- Indexes for table `film`
--
ALTER TABLE `film`
  ADD PRIMARY KEY (`filmname`),
  ADD KEY `cid_idx` (`cid`);

--
-- Indexes for table `producer`
--
ALTER TABLE `producer`
  ADD PRIMARY KEY (`id`);

--
-- Indexes for table `rate`
--
ALTER TABLE `rate`
  ADD PRIMARY KEY (`Film name`,`User id`),
  ADD KEY `user id_idx` (`User id`);

--
-- Indexes for table `user`
--
ALTER TABLE `user`
  ADD PRIMARY KEY (`User id`),
  ADD KEY `film name_idx` (`film attended`);

--
-- Indexes for table `watched on`
--
ALTER TABLE `watched on`
  ADD PRIMARY KEY (`User id`,`Cname`),
  ADD KEY `cname_idx` (`Cname`);

--
-- Constraints for dumped tables
--

--
-- Constraints for table `action movie`
--
ALTER TABLE `action movie`
  ADD CONSTRAINT `afname` FOREIGN KEY (`film name`) REFERENCES `film` (`filmname`) ON
DELETE NO ACTION ON UPDATE NO ACTION;

--
-- Constraints for table `actors`
--
ALTER TABLE `actors`
```

```
  ADD CONSTRAINT `actorid` FOREIGN KEY (`id`) REFERENCES `crew` (`Id`) ON DELETE NO ACTION ON UPDATE NO ACTION;

--
-- Constraints for table `comedy movie`
--
ALTER TABLE `comedy movie`
  ADD CONSTRAINT `cfname` FOREIGN KEY (`film name`) REFERENCES `film` (`filmname`) ON DELETE NO ACTION ON UPDATE NO ACTION;

--
-- Constraints for table `director`
--
ALTER TABLE `director`
  ADD CONSTRAINT `directorid` FOREIGN KEY (`id`) REFERENCES `crew` (`Id`) ON DELETE NO ACTION ON UPDATE NO ACTION;

--
-- Constraints for table `drama movie`
--
ALTER TABLE `drama movie`
  ADD CONSTRAINT `dfname` FOREIGN KEY (`film name`) REFERENCES `film` (`filmname`) ON DELETE NO ACTION ON UPDATE NO ACTION;

--
-- Constraints for table `film`
--
ALTER TABLE `film`
  ADD CONSTRAINT `cid` FOREIGN KEY (`cid`) REFERENCES `crew` (`Id`) ON DELETE NO ACTION ON UPDATE NO ACTION;

--
-- Constraints for table `producer`
--
ALTER TABLE `producer`
  ADD CONSTRAINT `producerid` FOREIGN KEY (`id`) REFERENCES `crew` (`Id`) ON DELETE NO ACTION ON UPDATE NO ACTION;

--
-- Constraints for table `rate`
--
ALTER TABLE `rate`
  ADD CONSTRAINT `film name` FOREIGN KEY (`Film name`) REFERENCES `film` (`filmname`) ON DELETE NO ACTION ON UPDATE NO ACTION,
  ADD CONSTRAINT `user id` FOREIGN KEY (`User id`) REFERENCES `user` (`User id`) ON DELETE NO ACTION ON UPDATE NO ACTION;

--
-- Constraints for table `user`
```

```
--
ALTER TABLE `user`
 ADD CONSTRAINT `attended name` FOREIGN KEY (`film attended`) REFERENCES `film` (`filmname`) ON DELETE NO ACTION ON UPDATE NO ACTION;

--
-- Constraints for table `watched on`
--
ALTER TABLE `watched on`
 ADD CONSTRAINT `cinema name` FOREIGN KEY (`Cname`) REFERENCES `cinema` (`CNAME`) ON DELETE NO ACTION ON UPDATE NO ACTION,
 ADD CONSTRAINT `uid` FOREIGN KEY (`User id`) REFERENCES `user` (`User id`) ON DELETE NO ACTION ON UPDATE NO ACTION;
COMMIT;
```

An er reversed from this sql code :



DML part :

Adding new tuples :

Ex -> adding new film named “superman “with its data:

```
INSERT INTO `cinema`.`film` (`filmname`, `country`, `released year`, `language`, `cid`) VALUES ('superman', 'egypt', '2023', 'arabic', '8');
```

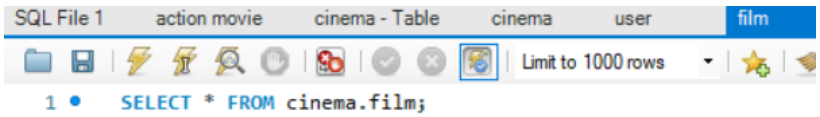
Deleting :

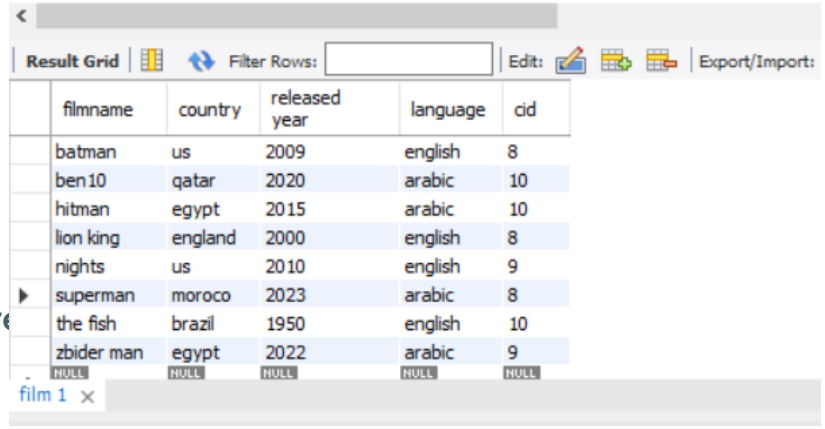
```
1    DELETE FROM `cinema`.`film` WHERE (`filmname` = 'superman');
2
```

Edit :

```
1    UPDATE `cinema`.`film` SET `country` = 'moroco' WHERE (`filmname` = 'superman');
2
```

Quires :





```
1
2 •  SELECT country FROM cinema.film where language="arabic" ;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

country
qatar
egypt
egypt
egypt

```
1 •  SELECT * FROM cinema.user;
```

Limit to 1000 rows

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content:

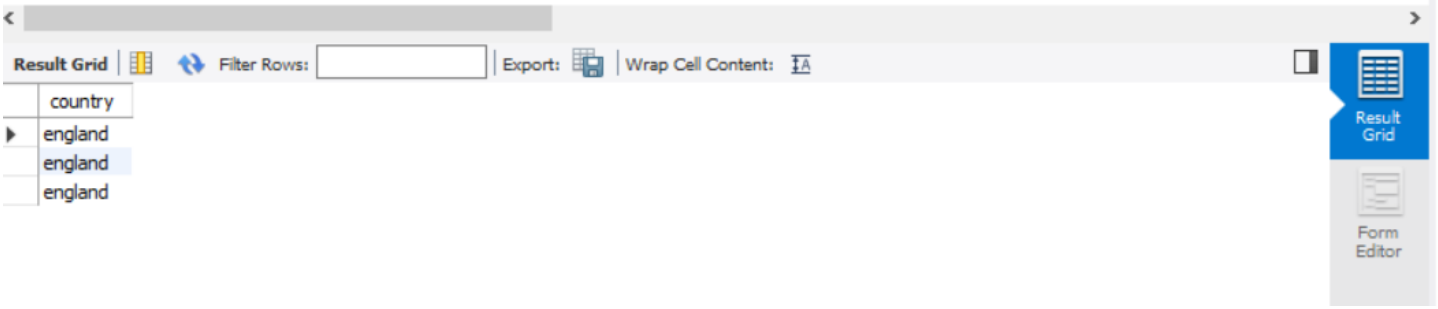
User id	interests	User Country	Watched Shows	age	repeats of attendance	film attended
1	comedy	egypt	zbider/the fish	20	2	batman
2	comedy	us	zbider/ben10	22	1	batman
3	action	egypt	zbider/the fish	17	1	batman
4	action	us	ben10/nights	16	8	the fish
5	comedy	us	zbider/batman	28	1	nights
6	comedy	brazil	zbider/hitman	30	3	nights
7	drama	egypt	zbider/the fish	52	1	lion king
8	drama	egypt	zbider/the fish	49	1	lion king

user 1 | Apply

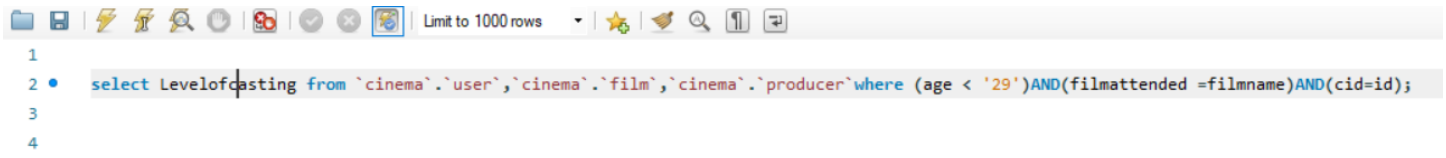
Quires statement :

1. Get country that produced a film watched by user whom age > 30 years :

```
select country from `cinema`.`user`,`cinema`.`film`where (age > '30')AND(filmattended =filmname);
```

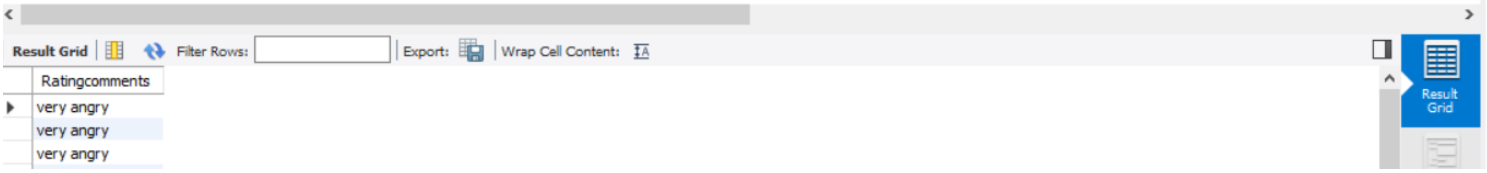


2.get producer's level of cast who produced a film watched by users age <29:



3.get rate comments about the films that watched by user who prefer comedy movies :

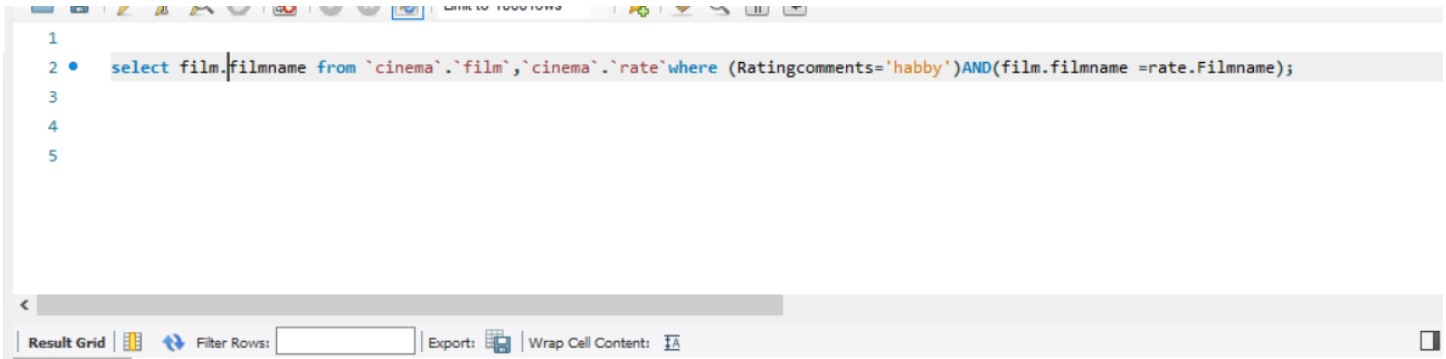
```
select Ratingcomments from `cinema`.`user`,`cinema`.`film`,`cinema`.`rate`where (interests='comedy')AND(film.Filmname =rate.filmname)AND(ID=id);
```



Ratingcomments
very angry
very angry
very angry

4.get film name that rated with habby reviews :

```
select film.filmname from `cinema`.`film`,`cinema`.`rate`where (Ratingcomments='habby')AND(film.filmname =rate.Filmname);
```



filmname
batman
lion king
lion king

Our tables:

Database: cinema, Table: action movie, Purpose: Dumping data

film name	Movie rate
batman	rated
ben10	PG
hitman	R

Database: cinema, Table: actors, Purpose: Dumping data

id	class
11	pro
22	pro
33	combars
44	combars
55	pro
66	pro

Database: cinema, Table: cinema, Purpose: Dumping data

CNAME	capacity	location	Tickets sold	Cinema rate	No screens	movieSched
el-cima	85	cairo	85	9.8	12	all dayes
goma	100	alex	80	8	11	all dayes
moro	37	giza	20	6.2	3	mondayonly
nemo	20	cairo	30	7.3	6	all dayes
oplex	50	suez	25	6.2	5	all dayes
shahed	50	cairo	30	7.9	5	mondayonly

Database: cinema, Table: comedy movie, Purpose: Dumping data

film name	subgenres
the fish	Dark Comedy
zbider man	Action Comedy

Database: cinema, Table: crew, Purpose: Dumping data

Id	salary	name
8	7000	ibrahim
9	2000	mostafa
10	3000	mostafa
11	5000	hoda
22	3000	ahmed
33	8000	ahmed
44	2000	omar
55	9000	fady
66	8000	tamer
77	5000	ahmed

Database: cinema, Table: director, Purpose: Dumping data

id	Style
8	The creative artist
77	The negotiator

Database: cinema, Table: drama movie, Purpose: Dumping data

film name	Level of drama
lion king	farce
nights	musical drama

Database: cinema, Table: film, Purpose: Dumping data

filmname	country	released year	language	cid
batman	us	2009	english	8
ben10	qatar	2020	arabic	10
hitman	egypt	2015	arabic	10
lion king	england	2000	english	8
nights	us	2010	english	9
the fish	brazil	1950	english	10
zbider man	egypt	2022	arabic	9

Database: cinema, Table: producer, Purpose: Dumping data

id	Level of casting
9	class S
10	class B

Database: cinema, Table: rate, Purpose: Dumping data

Film name	User id	Rating comments	Rating no
batman	1	very angry	998
batman	2	habby	985
batman	3	angry	980
lion king	8	habby	973
lion king	9	habby	915

Database: cinema, Table: user, Purpose: Dumping data

User id	interests	User Country	Watched Shows	age	repeats of attendance	film attended
1	comedy	egypt	zbider/the fish	20	2	batman
2	comedy	us	zbider/ben10	22	1	batman
3	action	egypt	zbider/the fish	17	1	batman
4	action	us	ben10/nights	16	8	the fish
5	comedy	us	zbider/batman	28	1	nights
6	comedy	brazil	zbider/hitman	30	3	nights
7	drama	egypt	zbider/the fish	52	1	lion king
8	drama	egypt	zbider/the fish	49	1	lion king
9	drama	us	zbider/the fish	62	6	lion king

Database: cinema, Table: watched on, Purpose: Dumping data

User id	Cname	no of visits
1	goma	2
2	shahed	1
3	nemo	1
4	oplex	8
5	oplex	1
6	nemo	3
7	shahed	1
8	shahed	1
9	goma	6

Conclution

- This project could hep documenting cinema industry and could be used in cinemas application for

  reviewing or a website like Wikipedia for cinema industry

- this project open our eyes about how to implement databases and connect it with real

  application we thought at first it's a little bit hard to open server and do database on my sql ide

  with mamp and PhpMyAdmin we look Forword to present a javafx desktop application and

  connect it by our database

- and of course the proposal was very helpful to show the way to the new system we made

  by prof Heba review we couldn't make it as it is now