

DATA607_Assignment2

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In this assignment we have Choose ten recent popular movies. Ask at least five people that you know (friends, family, classmates, imaginary friends) to rate each of these movie that they have seen on a scale of 1 to 5. Take the results (observations) and store them in a SQL database. From the database we have different queries to gain insight of rating information.

Environment Setup

```
library(RMySQL)
```

```
## Loading required package: DBI
```

```
drv = dbDriver("MySQL")
```

```
con <- dbConnect(drv, user = 'root', password = 'mysql', dbname = 'mysql')
```

Movies table from mysql database

```
SELECT * FROM mysql.movie_list
```

Table 1: Displaying records 1 - 10

movie_name	movie_id	movie_year	genre
Peter Rabbit	1	2018	Animation
jumanji:welcome to jungle	2	2017	Action
wonder	3	2017	Drama
padmavat	4	2018	Historical
when we first met	5	2018	Romance
Coco	6	2017	Animation
Spiderman Homecoming	7	2017	Action
Phantom Thread	8	2017	Drama
The Black Prince	9	2017	Historical
Beauty and the Beast	10	2017	Romance

Movies_Rating from mysql database

```
{ sql connection=con} SELECT * FROM mysql.movie_rating
```

User_list from mysql database

```
SELECT * FROM mysql.user_list
```

user_id	user_first_name	user_last_name	user_age	user_country
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Table 2: 6 records

user_id	user_first_name	user_last_name	user_age	user_country
1	Rick	singh	5	USA
2	Tony	shoker	33	CANADA
3	Jag	singh	40	CANADA
4	Nam	Deep	45	USA
6	Pam	Dhal	50	INDIA
5	Bal	Deep	65	INDIA

User_rating from mysql database

```
SELECT * FROM mysql.user_movie_ratinglist
```

Table 3: Displaying records 1 - 10

user_id	movie_id	rating_id
1	1	5
1	2	3
1	3	3
1	4	1
1	5	1
2	1	2
2	2	3
2	3	4
2	4	5
2	5	5

movie rating ordered by genre and rating

In this query we want to find out the rating of a movie based on its genre. This queries give an idea about how a pertiucular movie is doing within its category.

```
rating_genre <- dbSendQuery(con, "select distinct movies.genre, movies.movie_name, movies.movie_year, r
from mysql.movie_list movies, mysql.movie_rating ratings, mysql.user_list userlist, mysql.user_movie_ra
where ratingLists.user_id = userlist.user_id
and ratingLists.movie_id = movies.movie_id
and ratingLists.rating_id = ratings.rating_id
order by movies.genre, ratings.rating_description ")
dbFetch(rating_genre)
```

```
##          genre          movie_name movie_year rating_description
## 1      Action  Spiderman Homecoming    2017      Excellent
## 2      Action jumanji:welcome to jungle    2017          fair
## 3      Action  Spiderman Homecoming    2017          fair
## 4      Action jumanji:welcome to jungle    2017          good
## 5      Action  Spiderman Homecoming    2017          good
## 6  Animation      Peter Rabbit    2018      Excellent
```

## 7	Animation	Peter Rabbit	2018	fair
## 8	Animation	Coco	2017	fair
## 9	Animation	Coco	2017	good
## 10	Animation	Coco	2017	poor
## 11	Animation	Peter Rabbit	2018	poor
## 12	Animation	Coco	2017	very good
## 13	Drama	wonder	2017	fair
## 14	Drama	wonder	2017	good
## 15	Drama	Phantom Thread	2017	good
## 16	Drama	wonder	2017	very good
## 17	Drama	Phantom Thread	2017	very good
## 18	Historical	padmavat	2018	Excellent
## 19	Historical	The Black Prince	2017	Excellent
## 20	Historical	The Black Prince	2017	good
## 21	Historical	padmavat	2018	good
## 22	Historical	padmavat	2018	poor
## 23	Historical	The Black Prince	2017	poor
## 24	Romance	Beauty and the Beast	2017	Excellent
## 25	Romance	when we first met	2018	Excellent
## 26	Romance	when we first met	2018	good
## 27	Romance	Beauty and the Beast	2017	good
## 28	Romance	when we first met	2018	poor
## 29	Romance	Beauty and the Beast	2017	poor

movie rating order by age, ratings and genre

In this query we want to find how a movie is performing across different age group. We want to see if there is a correlation between age group and movie genre.

```
rating_age <- dbSendQuery(con, "select userlist.user_age, movies.movie_name, movies.genre, ratings.rating_description
from mysql.movie_list movies, mysql.movie_rating ratings, mysql.user_list userlist, mysql.user_movie_rating user_movie_rating
where ratingLists.user_id = userlist.user_id
and ratingLists.movie_id = movies.movie_id
and ratingLists.rating_id = ratings.rating_id
order by userlist.user_age, ratings.rating_description, movies.genre")
dbFetch(rating_age)
```

##	user_age	movie_name	genre	rating_description
## 1	5	Spiderman Homecoming	Action	Excellent
## 2	5	Peter Rabbit	Animation	Excellent
## 3	5	jumanji:welcome to jungle	Action	good
## 4	5	Phantom Thread	Drama	good
## 5	5	wonder	Drama	good
## 6	5	The Black Prince	Historical	poor
## 7	5	padmavat	Historical	poor
## 8	5	Beauty and the Beast	Romance	poor
## 9	5	when we first met	Romance	poor
## 10	5	Coco	Animation	very good
## 11	33	Spiderman Homecoming	Action	Excellent
## 12	33	padmavat	Historical	Excellent
## 13	33	when we first met	Romance	Excellent
## 14	33	Beauty and the Beast	Romance	Excellent
## 15	33	Peter Rabbit	Animation	fair
## 16	33	jumanji:welcome to jungle	Action	good

## 17	33	Coco	Animation	good
## 18	33	Phantom Thread	Drama	good
## 19	33	The Black Prince	Historical	poor
## 20	33	wonder	Drama	very good
## 21	40	when we first met	Romance	Excellent
## 22	40	Peter Rabbit	Animation	fair
## 23	40	Spiderman Homecoming	Action	good
## 24	40	jumanji:welcome to jungle	Action	good
## 25	40	Phantom Thread	Drama	good
## 26	40	wonder	Drama	good
## 27	40	The Black Prince	Historical	good
## 28	40	padmavat	Historical	good
## 29	40	Beauty and the Beast	Romance	good
## 30	40	Coco	Animation	poor
## 31	45	padmavat	Historical	Excellent
## 32	45	jumanji:welcome to jungle	Action	fair
## 33	45	Spiderman Homecoming	Action	fair
## 34	45	Coco	Animation	fair
## 35	45	The Black Prince	Historical	good
## 36	45	when we first met	Romance	good
## 37	45	Peter Rabbit	Animation	poor
## 38	45	Beauty and the Beast	Romance	poor
## 39	45	wonder	Drama	very good
## 40	45	Phantom Thread	Drama	very good
## 41	65	Spiderman Homecoming	Action	Excellent
## 42	65	The Black Prince	Historical	Excellent
## 43	65	jumanji:welcome to jungle	Action	fair
## 44	65	Peter Rabbit	Animation	fair
## 45	65	wonder	Drama	fair
## 46	65	Phantom Thread	Drama	good
## 47	65	when we first met	Romance	good
## 48	65	Coco	Animation	poor
## 49	65	padmavat	Historical	poor
## 50	65	Beauty and the Beast	Romance	poor

movie rating order by Country, ratings, genre

in this query we want to find how a movie is performing across different countries. We want to see if there is a correlation between people's interest in movies across different countries.

```
rating_country <- dbSendQuery(con, "select distinct userlist.user_country, movies.genre, movies.movie_name
from mysql.movie_list movies, mysql.movie_rating ratings, mysql.user_list userlist, mysql.user_movie_ratings
where ratingLists.user_id = userlist.user_id
and ratingLists.movie_id = movies.movie_id
and ratingLists.rating_id = ratings.rating_id
order by userlist.user_country, ratings.rating_description, movies.genre")
dbFetch(rating_country)
```

##	user_country	genre	movie_name	rating_description
## 1	CANADA	Action	Spiderman Homecoming	Excellent
## 2	CANADA	Historical	padmavat	Excellent
## 3	CANADA	Romance	Beauty and the Beast	Excellent
## 4	CANADA	Romance	when we first met	Excellent
## 5	CANADA	Animation	Peter Rabbit	fair

## 6	CANADA	Action	jumanji:welcome to jungle	good
## 7	CANADA	Action	Spiderman Homecoming	good
## 8	CANADA	Animation	Coco	good
## 9	CANADA	Drama	wonder	good
## 10	CANADA	Drama	Phantom Thread	good
## 11	CANADA	Historical	The Black Prince	good
## 12	CANADA	Historical	padmavat	good
## 13	CANADA	Romance	Beauty and the Beast	good
## 14	CANADA	Animation	Coco	poor
## 15	CANADA	Historical	The Black Prince	poor
## 16	CANADA	Drama	wonder	very good
## 17	INDIA	Action	Spiderman Homecoming	Excellent
## 18	INDIA	Historical	The Black Prince	Excellent
## 19	INDIA	Action	jumanji:welcome to jungle	fair
## 20	INDIA	Animation	Peter Rabbit	fair
## 21	INDIA	Drama	wonder	fair
## 22	INDIA	Drama	Phantom Thread	good
## 23	INDIA	Romance	when we first met	good
## 24	INDIA	Animation	Coco	poor
## 25	INDIA	Historical	padmavat	poor
## 26	INDIA	Romance	Beauty and the Beast	poor
## 27	USA	Action	Spiderman Homecoming	Excellent
## 28	USA	Animation	Peter Rabbit	Excellent
## 29	USA	Historical	padmavat	Excellent
## 30	USA	Action	jumanji:welcome to jungle	fair
## 31	USA	Action	Spiderman Homecoming	fair
## 32	USA	Animation	Coco	fair
## 33	USA	Action	jumanji:welcome to jungle	good
## 34	USA	Drama	Phantom Thread	good
## 35	USA	Drama	wonder	good
## 36	USA	Historical	The Black Prince	good
## 37	USA	Romance	when we first met	good
## 38	USA	Animation	Peter Rabbit	poor
## 39	USA	Historical	The Black Prince	poor
## 40	USA	Historical	padmavat	poor
## 41	USA	Romance	Beauty and the Beast	poor
## 42	USA	Romance	when we first met	poor
## 43	USA	Animation	Coco	very good
## 44	USA	Drama	wonder	very good
## 45	USA	Drama	Phantom Thread	very good