

Course: MySQL Difficulty: Intense

**Instruction**: Import the given **Ico\_films.sql** file in phpmyadmin and then answer the following questions with mySQL queries.

Q1) Which categories of movies released in 2018? Fetch with the number of movies.

Ans: SELECT category.name, category.category\_id,film.release\_year, film.film\_id,

COUNT(category.category\_id) AS number\_of\_films FROM category LEFT JOIN film\_category ON

film\_category.category\_id = category.category\_id RIGHT JOIN film ON film.film\_id =

film\_category.film\_id WHERE film.release\_year = "2018" GROUP BY category.category\_id;

Q2) Update the address of actor id 36 to "677 Jazz Street".

Ans: UPDATE `address` INNER JOIN actor ON actor.address\_id=address.address\_id SET `address`="677 Jazz Street" WHERE actor.actor\_id=36

Q3) Add the new actors (id: 105, 95) in film ARSENIC INDEPENDENCE (id:41).

Ans: INSERT INTO `film\_actor`(`actor\_id`, `film\_id`) VALUES (115,41), (85,41) ON DUPLICATE KEY UPDATE film\_id = VALUES(film\_id), actor\_id = VALUES(actor\_id);

Q4) Get the name of films of the actors who belong to India.

Ans: SELECT DISTINCT film.title FROM film INNER JOIN film\_actor ON film\_actor.film\_id = film.film\_id INNER JOIN actor ON actor.actor\_id = film\_actor.actor\_id INNER JOIN address on address.address\_id = actor.address\_id INNER JOIN city ON city.city\_id = address.city\_id INNER JOIN country ON country\_id=city.country\_id WHERE country.country = "India";



Q8) Fetch cast details of films released during 2005 and 2015 with PG rating.

Ans: SELECT CONCAT(actor.first\_name, "", actor.last\_name) AS actor\_name, film.title,film.release\_year,film.rating FROM actor INNER JOIN film\_actor ON film\_actor.actor\_id = actor.actor\_id INNER JOIN film ON film.film\_id = film\_actor.film\_id WHERE film.release\_year BETWEEN 2005 AND 2015 AND film.rating = "PG";

Q9) In which year most films were released?

Ans: SELECT film.title,film.release\_year, COUNT(film.release\_year) AS no\_of\_films FROM `film` GROUP BY (film.release\_year) ORDER BY COUNT(film.release\_year) DESC LIMIT 1;

Q10) In which year least number of films were released?

Ans: SELECT film.title,film.release\_year, COUNT(film.release\_year) AS no\_of\_films FROM `film` GROUP BY (film.release\_year) ORDER BY COUNT(film.release\_year) ASC LIMIT 1;

Q11) Get the details of the film with maximum length released in 2014.

Ans: SELECT \*, language.name as language FROM `film` LEFT JOIN language ON language.language\_id = film.language\_id WHERE film.release\_year = "2014" AND film.length = (SELECT MAX(film.length) FROM film);

Q12) Get all Sci-Fi movies with NC-17 ratings and language they are screened in.

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language WHERE language.name = "English"), (SELECT language.language\_id FROM language WHERE language.name = "English"), 6, 3.99, 100, 20.99, "PG-13", "Trailers,Deleted Scenes");



Q15) Assign the category Action, Classics, Drama to the movie "No Time to Die".

Ans:INSERT INTO `film\_category`(`category\_id`, `film\_id`) VALUES ((SELECT category\_id FROM category WHERE category.name = "Action"), (SELECT film\_id FROM film WHERE film.title = "No Time to Die" )),

((SELECT category\_id FROM category WHERE category.name = "Classics"), (SELECT film\_id FROM film WHERE film.title = "No Time to Die")),

((SELECT category\_id EPOM\_category\_WHERE category\_name = "Drama"), (SELECT film\_id\_

((SELECT category\_id FROM category WHERE category.name = "Drama") , (SELECT film\_id FROM film WHERE film.title = "No Time to Die" ));

Q16) Assign the cast: PENELOPE GUINESS, NICK WAHLBERG, JOE SWANK to the movie "No Time to Die".

Ans: INSERT INTO `film\_actor`(`actor\_id`, `film\_id`) VALUES ((SELECT actor\_id FROM actor WHERE actor.first\_name = "PENELOPE" AND actor.last\_name = "GUINESS"),

(SELECT film\_id FROM film WHERE film.title = "No Time to Die")),

((SELECT actor\_id FROM actor WHERE actor.first\_name = "NICK" AND actor.last\_name = "WAHLBERG"), (SELECT film\_id FROM film WHERE film.title = "No Time to Die")),

((SELECT actor\_id FROM actor WHERE actor.first\_name = "JOE" AND actor.last\_name = "SWANK"), (SELECT film\_id FROM film WHERE film.title = "No Time to Die"));

Q17) Assign a new category Thriller to the movie ANGELS LIFE.

Ans: Create a new category and then insert data into pivot table:-

- S1) INSERT INTO 'category' ('name') VALUES ("Thriller");
- S2) INSERT INTO `film\_category`(`film\_id`, `category\_id`) VALUES ((SELECT film\_id FROM film WHERE film.title= "ANGELS LIFE"), (SELECT category\_id FROM category WHERE category.name = "Thriller"));

Q18) Which actor acted in most movies?



Q24) How many Sci-Fi films released between the year 2007 to 2017?

Ans: SELECT COUNT(\*) FROM `film\_category` INNER JOIN film ON film.film\_id=film\_category.film\_id INNER JOIN category ON category\_category\_id=film\_category.category\_id WHERE film.release\_year BETWEEN 2007 AND 2017 AND category.name="Sci-Fi";

Q25) Fetch the actors of the movie WESTWARD SEABISCUIT with the city they live in.

Ans: SELECT actor.first\_name ,actor.last\_name , film.title , city.city FROM film\_actor INNER JOIN actor ON actor.actor\_id = film\_actor.actor\_id INNER JOIN address ON address.address\_id = actor.address\_id INNER JOIN city ON city.city\_id = address.address\_id INNER JOIN film ON film.film\_id = film\_actor.film\_id WHERE film.title="WESTWARD SEABISCUIT";

Q26) What is the total length of all movies played in 2008?

Ans: SELECT SUM(film.length) FROM 'film' WHERE film.release\_year = "2008"

Q27) Which film has the shortest length? In which language and year was it released?

Ans: SELECT language.name, film.title, film.release\_year, film.length FROM `film` LEFT JOIN language ON language.language\_id=film.language\_id WHERE film.length = (SELECT MIN(film.length) FROM film);