

TASK – 3

1. Display the first and last name of each actor in a single column in upper case letters in alphabetical order. Name the column Actor Name.

```
mysql>
mysql>
mysql> Select upper(concat(first_name, ' ', last_name)) as 'Actor Name'
-> from actor
-> order by upper(concat(first_name, ' ', last_name)) ASC
-> LIMIT 10;
```

Actor Name
ADAM GRANT
ADAM HOPPER
AL GARLAND
ALAN DREYFUSS
ALBERT JOHANSSON
ALBERT NOLTE
ALEC WAYNE
ANGELA HUDSON
ANGELA WITHERSPOON
ANGELINA ASTAIRE

10 rows in set (0.00 sec)

2. Find all actors whose last name contains the letters GEN

```
mysql>
mysql> select first_name, last_name
-> from actor
-> where last_name like '%GEN%';
```

first_name	last_name
VIVIEN	BERGEN
JODIE	DEGENERES
GINA	DEGENERES
NICK	DEGENERES

4 rows in set (0.00 sec)

3. Using IN display the country_id and country columns of the following countries: Afghanistan, Bangladesh, and China

```
mysql>
mysql> select country_id, country
-> from country
-> where country IN ('Afghanistan', 'Bangladesh', 'China');
```

country_id	country
1	Afghanistan
12	Bangladesh
23	China

3 rows in set (0.00 sec)

4. List the last names of actors, as well as how many actors have that last name.

```
mysql>
mysql> select last_name, count(last_name) as 'Count'
-> from actor
-> group by last_name
-> LIMIT 10;
```

last_name	Count
AKROYD	3
ALLEN	3
ASTAIRE	1
BACALL	1
BAILEY	2
BALE	1
BALL	1
BARRYMORE	1
BASINGER	1
BENING	2

10 rows in set (0.00 sec)

5. List last names of actors and the number of actors who have that last name, but only for names that are shared by at least two actors

```
mysql>
mysql> select last_name,count(last_name) as 'Count'
-> from actor
-> group by last_name
-> having count(last_name)>=2
-> LIMIT 10;
```

last_name	Count
AKROYD	3
ALLEN	3
BAILEY	2
BENING	2
BERRY	3
BOLGER	2
BRODY	2
CAGE	2
CHASE	2
CRAWFORD	2

10 rows in set (0.00 sec)

6. The actor HARPO WILLIAMS was accidentally entered into the actor table as GROUCHO WILLIAMS. Write a query to fix the record

```
mysql>
mysql> update actor
-> set first_name='HARPO'
-> where first_name='GROUCHO' and last_name='WILLIAMS';
Query OK, 1 row affected (0.01 sec)
Rows matched: 1 Changed: 1 Warnings: 0
```

```
mysql> select first_name from actor where last_name='WILLIAMS';
```

first_name
SEAN
MORGAN
HARPO

3 rows in set (0.00 sec)

7. Use JOINT to display the first and last names, as well as the address, of each staff member. Use the tables staff and address:

```
mysql>
mysql> select first_name,last_name,address
-> from staff as s
-> join address as a
-> ON a.address_id = s.address_id;
```

first_name	last_name	address
Mike	Hillyer	23 Workhaven Lane
Jon	Stephens	1411 Lillydale Drive

2 rows in set (0.00 sec)

8. List each film and the number of actors who are listed for that film. Use tables film_actor and film. Use inner join

```
mysql>
mysql> select title,count(actor_id) as 'Count of Actors'
-> from film f
-> join film_actor fa
-> on f.film_id = fa.film_id
-> group by f.title
-> limit 10;
```

title	Count of Actors
ACADEMY DINOSAUR	10
ACE GOLDFINGER	4
ADAPTATION HOLES	5
AFFAIR PREJUDICE	5
AFRICAN EGG	5
AGENT TRUMAN	7
AIRPLANE SIERRA	5
AIRPORT POLLOCK	4
ALABAMA DEVIL	9
ALADDIN CALENDAR	8

10 rows in set (0.01 sec)

9. How many copies of the film Hunchback Impossible exist in the inventory system?

```
mysql> select title,count(inventory_id) as 'Count'
-> from film f
-> join inventory i
-> on f.film_id = i.film_id
-> where f.title = 'Hunchback Impossible';
```

title	Count
HUNCHBACK IMPOSSIBLE	6

1 row in set (0.00 sec)

10. Using the tables payment and customer and the JOIN command, list the total paid by each customer. List the customers alphabetically by last name

```
mysql>
mysql> SELECT c.customer_id, c.last_name, c.first_name, SUM(p.amount) AS 'Total'
-> FROM payment p
-> JOIN customer c
-> ON p.customer_id = c.customer_id
-> GROUP BY c.customer_id, c.last_name, c.first_name
-> ORDER BY c.last_name
-> LIMIT 10;
```

customer_id	last_name	first_name	Total
505	ABNEY	RAFAEL	97.79
504	ADAM	NATHANIEL	133.72
36	ADAMS	KATHLEEN	92.73
96	ALEXANDER	DIANA	105.73
470	ALLARD	GORDON	160.68
27	ALLEN	SHIRLEY	126.69
220	ALVAREZ	CHARLENE	114.73
11	ANDERSON	LISA	106.76
326	ANDREW	JOSE	96.75
183	ANDREWS	IDA	76.77

10 rows in set (0.08 sec)

11. The music of Queen and Kris Kristofferson have seen an unlikely resurgence. As an unintended consequence, films starting with the letters K and Q have also soared in popularity. Use subqueries to display the titles of movies starting with the letters K and Q whose language is English

```
mysql>
mysql> select title
-> from film
-> where language_id IN
-> (select language_id
-> from language
-> where name='English')
-> and (title like 'K%' or (title like 'Q%'));
```

title
KANE EXORCIST
KARATE MOON
KENTUCKIAN GIANT
KICK SAVANNAH
KILL BROTHERHOOD
KILLER INNOCENT
KING EVOLUTION
KISS GLORY
KISSING DOLLS
KNOCK WARLOCK
KRAMER CHOCOLATE
KWAI HOMEWARD
QUEEN LUKE
QUEST MUSSOLINI
QUILLS BULL

15 rows in set (0.00 sec)

12. Use subqueries to display all actors who appear in the film Alone Trip

```
mysql> select CONCAT(first_name, ' ',last_name) as 'Actors in Alone Trip'
-> from actor
-> where actor_id in
-> (select actor_id from film_actor where film_id =
-> (select film_id from film where title = 'Alone Trip'));
```

Actors in Alone Trip
ED CHASE
KARL BERRY
UMA WOOD
WOODY JOLIE
SPENCER DEPP
CHRIS DEPP
LAURENCE BULLOCK
RENEE BALL

8 rows in set (0.00 sec)

13. You want to run an email marketing campaign in Canada, for which you will need the names and email addresses of all Canadian customers. Use joins to retrieve this information.

```
mysql>
mysql> select concat(c.first_name, ' ', c.last_name) as 'Name', c.email as 'E-mail'
-> from customer as c
-> join address as a on c.address_id = a.address_id
-> join city as cy on a.city_id = cy.city_id
-> join country as ct on ct.country_id = cy.country_id
-> where ct.country = 'Canada';
```

Name	E-mail
DERRICK BOURQUE	DERRICK.BOURQUE@sakilacustomer.org
DARRELL POWER	DARRELL.POWER@sakilacustomer.org
LORETTA CARPENTER	LORETTA.CARPENTER@sakilacustomer.org
CURTIS IRBY	CURTIS.IRBY@sakilacustomer.org
TROY QUIGLEY	TROY.QUIGLEY@sakilacustomer.org

5 rows in set (0.00 sec)

14. Sales have been lagging among young families, and you wish to target all family movies for a promotion. Identify all movies categorized as family films.

```
mysql>
mysql> select title, category
-> from film_list
-> where category='Family'
-> limit 10;
```

title	category
AFRICAN EGG	Family
APACHE DIVINE	Family
ATLANTIS CAUSE	Family
BAKED CLEOPATRA	Family
BANG KWAI	Family
BEDAZZLED MARRIED	Family
BILKO ANONYMOUS	Family
BLANKET BEVERLY	Family
BLOOD ARGONAUTS	Family
BLUES INSTINCT	Family

10 rows in set (0.01 sec)

15. Create a Stored procedure to get the count of films in the input category (IN category_name, OUT count)

```
mysql>
mysql> DELIMITER //
mysql> create procedure FilmCount(IN category_name varchar(40),
-> OUT Count INT)
-> BEGIN
-> select COUNT(category) INTO Count
-> from film_list
-> where category=category_name;
-> END //
Query OK, 0 rows affected (0.01 sec)

mysql> DELIMITER ;
mysql>
mysql>
mysql> call FilmCount('Horror', @Count);
Query OK, 1 row affected (0.01 sec)

mysql> select (@Count);
```

(@Count)
56

1 row in set (0.00 sec)

16. Display the most frequently rented movies in descending order.

```
mysql>
mysql> select f.title as 'Movie', count(r.rental_date) as 'Times Rented'
-> from film as f
-> join inventory as i on i.film_id = f.film_id
-> join rental as r on r.inventory_id = i.inventory_id
-> group by f.title
-> order by count(r.rental_date) desc
-> LIMIT 10;
```

Movie	Times Rented
BUCKET BROTHERHOOD	34
ROCKETEER MOTHER	33
RIDGEMONT SUBMARINE	32
GRIT CLOCKWORK	32
SCALAWAG DUCK	32
JUGGLER HARDLY	32
FORWARD TEMPLE	32
HOBBIT ALIEN	31
ROBBERS JOON	31
ZORRO ARK	31

10 rows in set (0.07 sec)

17. Write a query to display for each store its store ID, city, and country.

```
mysql>
mysql> select store_id,city,country
-> from store s
-> join address a ON a.address_id = s.address_id
-> join city c ON c.city_id = a.city_id
-> join country cy ON cy.country_id = c.country_id
-> order by s.store_id;
```

store_id	city	country
1	Lethbridge	Canada
2	Woodridge	Australia

2 rows in set (0.00 sec)

18. List the genres and its gross revenue.

```
mysql> SELECT c.name as 'Film', sum(p.amount) as 'Gross Revenue'
-> from category as c
-> join film_category as fc on fc.category_id = c.category_id
-> join inventory as i on i.film_id = fc.film_id
-> join rental as r on r.inventory_id = i.inventory_id
-> join payment as p on p.rental_id = r.rental_id
-> group by c.name
-> order by sum(p.amount) desc;
```

Film	Gross Revenue
Sports	5314.21
Sci-Fi	4756.98
Animation	4656.30
Drama	4587.39
Comedy	4383.58
Action	4375.85
New	4351.62
Games	4281.33
Foreign	4270.67
Family	4226.07
Documentary	4217.52
Horror	3722.54
Children	3655.55
Classics	3639.59
Travel	3549.64
Music	3417.72

16 rows in set (0.18 sec)

19. Create a View for the above query (18)

```
mysql> create view Filmandrenew as
-> SELECT c.name as 'Film', sum(p.amount) as 'Gross Revenue'
-> from category as c
-> join film_category as fc on fc.category_id = c.category_id
-> join inventory as i on i.film_id = fc.film_id
-> join rental as r on r.inventory_id = i.inventory_id
-> join payment as p on p.rental_id = r.rental_id
-> group by c.name
-> order by sum(p.amount) desc;
Query OK, 0 rows affected (0.01 sec)

mysql> show full tables;
```

Tables_in_sakila	Table_type
actor	BASE TABLE
actor_info	VIEW
address	BASE TABLE
category	BASE TABLE
city	BASE TABLE
country	BASE TABLE
customer	BASE TABLE
customer_list	VIEW
film	BASE TABLE
film_actor	BASE TABLE
film_category	BASE TABLE
film_list	VIEW
film_text	BASE TABLE
filmandrenew	VIEW
inventory	BASE TABLE
language	BASE TABLE
nicer_but_slower_film_list	VIEW
payment	BASE TABLE
rental	BASE TABLE
sales_by_film_category	VIEW
sales_by_store	VIEW
staff	BASE TABLE
staff_list	VIEW
store	BASE TABLE

24 rows in set (0.01 sec)

20. Select top 5 genres in gross revenue view

```
mysql>
mysql> SELECT * FROM filmandrenew
-> LIMIT 5;
```

Film	Gross Revenue
Sports	5314.21
Sci-Fi	4756.98
Animation	4656.30
Drama	4587.39
Comedy	4383.58

5 rows in set (0.18 sec)