

## SQL Quiz 2 Solutions

1. Write SQL query that provides the following details: actor's first and last name combined as full\_name, film title, film description and length of the movie. How many rows are there in the table?

- **SELECT CONCAT(a.first\_name,' ',a.last\_name) as full\_name,  
f.title, f.description, f.length  
FROM actor a  
JOIN film\_actor fa ON a.actor\_id=fa.actor\_id  
JOIN film f ON f.film\_id=fa.film\_id;**

2. Write a query that creates a list of actors and movies where the movie length was more than 60 minutes.

- **SELECT CONCAT(a.first\_name,' ',a.last\_name) as actor\_name,  
f.title movie\_name  
FROM actor a  
JOIN film\_actor fa ON a.actor\_id=fa.actor\_id  
JOIN film f ON f.film\_id=fa.film\_id  
WHERE f.length>60;**

3. Write a query that captures the actor id, full name of the actor, and counts the number of movies each actor has made. (HINT: Think about whether you should group by actor id or the full name of the actor.) Identify the actor who has made the maximum number of movies.

- **SELECT a.actor\_id, CONCAT(a.first\_name,' ',a.last\_name) as  
actor\_name,  
COUNT(\*) movie\_count  
FROM actor a  
JOIN film\_actor fa ON a.actor\_id=fa.actor\_id  
JOIN film f ON f.film\_id=fa.film\_id  
GROUP BY 1,2  
ORDER BY COUNT(\*)DESC;**
- **Gina Degeneres made maximum number of movies**

4. Write a query that displays a table with 4 columns: actor's full name, film title, length of movie, and a column name "filmlen\_groups" that

classifies movies based on their length. Filmlen\_groups should include 4 categories: 1 hour or less, Between 1-2 hours, Between 2-3 hours, More than 3 hours.

```
SELECT CONCAT(a.first_name,' ',a.last_name) as actor_name,  
f.title, f.length,  
CASE  
    WHEN f.length<60 THEN 'Group 1'  
    WHEN f.length>60 and f.length<120 THEN 'Group 2'  
    WHEN f.length>120 and f.length<180 THEN 'Group 3'  
    WHEN f.length>180 THEN 'Group 4'  
END as filmlen_groups  
FROM actor a  
JOIN film_actor fa ON a.actor_id=fa.actor_id  
JOIN film f ON f.film_id=fa.film_id;
```

5. Write a query to create a count of movies in each of the 4 filmlen\_groups: 1 hour or less, Between 1-2 hours, Between 2-3 hours, More than 3 hours.

filmlen_groups	filmcount_bylen
1 hour or less	104
Between 1-2 hours	439
Between 2-3 hours	418
More than 3 hours	39

```
SELECT DISTINCT(filmlen_groups),
```

**COUNT(title) OVER (PARTITION BY filmlen\_groups) AS  
filmcount\_bylencat**

**FROM**

**(SELECT title,length,**

**CASE WHEN length <= 60 THEN '1 hour or less'**

**WHEN length > 60 AND length <= 120 THEN 'Between 1-2 hours'**

**WHEN length > 120 AND length <= 180 THEN 'Between 2-3 hours'**

**ELSE 'More than 3 hours' END AS filmlen\_groups**

**FROM film ) t1**

**ORDER BY filmlen\_groups**