

## WEEK 2 CHALLENGE SOLUTIONS

Below are suggested answers. Note, in some cases, there's more than one way of getting the correct answer so check to see if your codes will produce the same results as the codes below.

1. Provide a list of the 5 shortest films with “G” rating and rental rates ranging from 2.99 to 4.99. Show their film ID and title.

*Hint: Refer to film table.*

```
SELECT film_id, title
FROM film
WHERE rating = 'G' AND rental_rate BETWEEN 2.99 AND 4.99
ORDER BY length
LIMIT 5;
```

2. Generate a list of all actors whose last names start with “Jo”. Arrange the list in alphabetical order of the last name. If there are customers with the same last name, arrange the list further by actor ID.

*Hint: Refer to actor table. Show all attributes.*

a) Show your SQL codes

b) What's the actor ID of the last actor in the list?

```
SELECT *
FROM actor
WHERE last_name LIKE 'Jo%'
ORDER BY last_name, actor_id;
--Answer: 43
```

3. **Let's play Words within Words game!**

Use the **city** table to find all the cities with words “gas” or “him” within the city name. Arrange the list by country ID (with the largest ID number on top).

```
SELECT *  
FROM city  
WHERE city ILIKE '%gas%' OR city ILIKE '%him%'  
ORDER BY country_id DESC;
```

4. Show the address details of customers whose phone numbers end with “10”, arranged by city ID where they live (in ascending order). Retrieve the address column only.  
*Hint: Refer to address table.*

```
SELECT address  
FROM address  
WHERE phone LIKE '%10'  
ORDER BY city_id;
```

5. The manager asks for a sample of 10 payment transactions (of no particular order) that occurred between 8:00:00 AND 17:00:00 on February 16, 2007 in the amount of either 0.99, 4.99 or 8.99.  
*Hint: Refer to payment table. You may retrieve all attributes*

```
SELECT *  
FROM payment  
WHERE amount IN (0.99, 4.99, 8.99) AND  
payment_date BETWEEN '2007-02-16 8:00:00' AND '2007-02-16  
17:00:00'  
LIMIT 10;
```