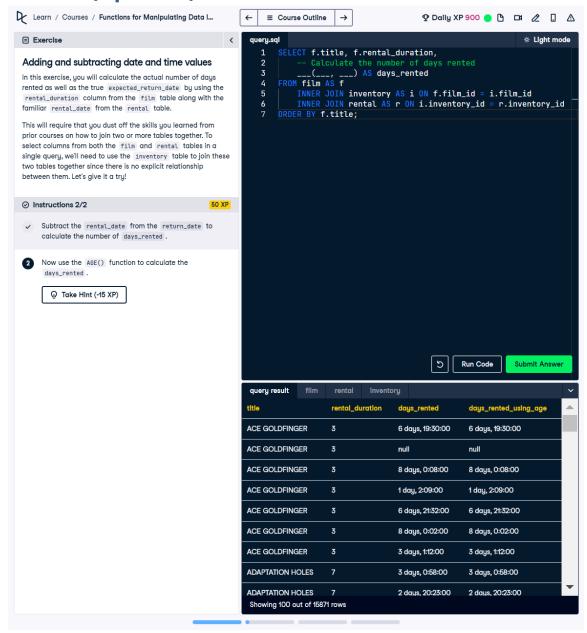
# Adding and Subtracting Date and Time Values - Exercise (Updated)



#### Question:

- 1. Subtract the rental\_date from the return\_date to calculate the number of days rented.
- 2. Use the AGE() function to calculate the days\_rented.

### **Answer:**

-- Calculate the number of days rented
SELECT f.title, f.rental\_duration,
 r.return\_date - r.rental\_date AS days\_rented,
 AGE(r.return\_date, r.rental\_date) AS days\_rented\_using\_age
FROM film AS f
INNER JOIN inventory AS i ON f.film\_id = i.film\_id
INNER JOIN rental AS r ON i.inventory\_id = r.inventory\_id
ORDER BY f.title;

## **Explanation:**

- 1. SELECT f.title, f.rental\_duration: Retrieves the film title and its rental duration.
- 2. r.return\_date r.rental\_date AS days\_rented: Calculates the difference between the return\_date and rental\_date to determine the number of days rented.
- 3. AGE(r.return\_date, r.rental\_date) AS days\_rented\_using\_age: Uses the AGE() function to compute the interval between the return\_date and rental\_date, providing a detailed interval result.
- 4. INNER JOIN inventory AS i ON f.film\_id = i.film\_id: Joins the film and inventory tables using the film id column.
- 5. INNER JOIN rental AS r ON i.inventory\_id = r.inventory\_id: Joins the inventory and rental tables using the inventory id column.
- 6. ORDER BY f.title: Sorts the results alphabetically by the film title.

## **Query Results:**

The query results display the following columns:

- 1. title: The title of the film.
- 2. rental duration: The duration of the rental in days.
- 3. days\_rented: The calculated number of days rented, obtained by subtracting rental date from return date.
- 4. days\_rented\_using\_age: A similar calculation using the AGE() function, providing a more detailed interval format.

## Example from the output:

- The film 'ACE GOLDFINGER' has a rental\_duration of 3 days. Some rows show a days\_rented of 6 days, 19:30:00, while others may have NULL values if the return date is not available.