```sql
use tfq;
select * from EmployeeTasks
--1. Write a query to calculate the running total of tasks completed by each employee,⤶
    ordered by the completion date
select employee_id, completion_date, tasks_completed,
sum(tasks_completed) over(partition by employee_id order by  completion_date) from   ⤶
    EmployeeTasks
order by  employee_id, completion_date


--2.Write a query to find the longest streak of consecutive days for each employee   ⤶
   where tasks were completed
-- Step 1: Calculate Row Numbers and Date Differences
WITH Streaks AS (
    SELECT
        employee_id,
        completion_date,
        ROW_NUMBER() OVER (PARTITION BY employee_id ORDER BY completion_date) AS rn,
        DATEDIFF(DAY, LAG(completion_date, 1) OVER (PARTITION BY employee_id ORDER BY ⤶
           completion_date), completion_date) AS day_diff
    FROM EmployeeTasks
),

-- Step 2: Assign Grouping Key Based on Consecutive Dates
GroupedStreaks AS (
    SELECT
        employee_id,
        completion_date,
        SUM(CASE WHEN day_diff > 1 THEN 1 ELSE 0 END) OVER (PARTITION BY employee_id  ⤶
           ORDER BY completion_date) AS group_key
    FROM Streaks
),

-- Step 3: Identify Streak Start and End Dates
StreakStartEnd AS (
    SELECT
        employee_id,
        MIN(completion_date) AS streak_start_date,
        MAX(completion_date) AS streak_end_date,
        COUNT(*) AS streak_length
    FROM GroupedStreaks
    GROUP BY employee_id, group_key
),

-- Step 4: Find the Longest Streak for Each Employee
LongestStreak AS (
    SELECT
        employee_id,
        streak_start_date,
        streak_end_date,
        streak_length,
        ROW_NUMBER() OVER (PARTITION BY employee_id ORDER BY streak_length DESC) AS rn
    FROM StreakStartEnd
```

```sql
)

-- Final Output: Longest Streak Details
SELECT
    employee_id,
    streak_start_date,
    streak_end_date,
    streak_length
FROM LongestStreak
WHERE rn = 1;
```