SQLBolt Exercise 7 — Tasks

Source:

Q) Find the list of all buildings that have employees

Ans:
SELECT DISTINCT building
FROM employees;

Explanation:

- `SELECT DISTINCT building`: Retrieves **unique** building names from the `employees` table.

- Only buildings **where at least one employee is assigned** are shown.

Q) Find the list of all buildings and their capacity

Ans:
SELECT building_name, capacity
FROM buildings ;

Explanation:

- Simply selects the **building name** and **its capacity** from the `buildings` table.

- Shows **all buildings**, regardless of whether they have employees or not.

Q) List all buildings and the distinct employee roles in each building (including empty buildings)

Ans:
SELECT DISTINCT building_name, Role
FROM buildings b
LEFT OUTER JOIN employees e
ON b.building_name=e.building ;

Explanation:

- `LEFT OUTER JOIN`: Ensures that **all buildings are included**, even if there are **no employees assigned** to them.

- `ON b.building_name = e.building`: Joins the `buildings` table to `employees` where the building names match.

- `SELECT DISTINCT building_name, Role`: Returns **unique combinations** of building and employee roles.

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