

## SQLBolt Exercise 8 – Tasks

Source: [https://sqlbolt.com/lesson/select\\_queries\\_with\\_nulls](https://sqlbolt.com/lesson/select_queries_with_nulls)

Q) Find the name and role of all employees who have not been assigned to a building.

Ans:

```
SELECT Role, Name  
FROM employees  
WHERE building IS NULL;
```

### Explanation:

- **FROM employees:** We're querying the **employees** table.
- **WHERE building IS NULL:** Filters only the employees who have **no building assigned**.
- **SELECT Role, Name:** Returns the **role and name** of these unassigned employees.

Q) Find the names of the buildings that hold no employees.

Ans:

```
SELECT DISTINCT building_name  
FROM buildings  
LEFT JOIN employees  
ON building_name = building  
WHERE role IS NULL;
```

### Explanation:

- **LEFT JOIN**: Returns **all buildings**, even if no matching employees are found.
- **ON building\_name = building**: Joins buildings to employees based on the building name.
- **WHERE role IS NULL**: After the **LEFT JOIN**, this condition filters for buildings where **no employee is assigned**, because if no match is found, all employee fields (like **role**) become **NULL**.

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