

Query 1

Limit to 1000 rows

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

```
146 -- Employees not assigned to any project (dept has no project)
147 SELECT e.emp_id, e.emp_name
148 FROM Employee e
149 WHERE e.dept_id NOT IN (SELECT dept_id FROM Project);
150
151 -- Project-wise headcount (by dept link)
152 • SELECT p.project_name, COUNT(e.emp_id) AS Headcount
153 FROM Project p
154 LEFT JOIN Employee e ON p.dept_id = e.dept_id
155 GROUP BY p.project_name;
156
```


Result Grid |   Filter Rows:  | Edit:    | Export/Import:   | Wrap Cell Content: 

|   | emp_id | emp_name |
|---|--------|----------|
| * | NULL   | NULL     |

```

150
151 -- Project-wise headcount (by dept link)
152 • SELECT p.project_name, COUNT(e.emp_id) AS Headcount
153 FROM Project p
154 LEFT JOIN Employee e ON p.dept_id = e.dept_id
155 GROUP BY p.project_name;
156
157 -- Department-wise average & max salary
158 • SELECT d.dept_name, AVG(e.salary) AS Avg_Salary, MAX(e.salary) AS Max_Salary
159 FROM Department d
160 LEFT JOIN Employee e ON d.dept_id = e.dept_id
161 GROUP BY d.dept_name;
162
163 -- Total incentives per employee
164 • SELECT e.emp_id, e.emp_name, COALESCE(SUM(i.incentive_amount), 0) AS Total_Incentive
165 FROM Employee e
166 LEFT JOIN Incentive i ON e.emp_id = i.emp_id
167 GROUP BY e.emp_id, e.emp_name;
168
169 -- Employees working on Alpha Project (by dept)
170 • SELECT e.emp_id, e.emp_name, p.project_name
171 FROM Employee e

```

Result Grid |   Filter Rows:  | Export:  | Wrap Cell Content: 

|   | project_name  | Headcount |
|---|---------------|-----------|
| ► | Recruitment   | 2         |
|   | Audit         | 2         |
|   | AI Research   | 2         |
|   | Alpha Project | 2         |

```

154     LEFT JOIN Employee e ON p.dept_id = e.dept_id
155     GROUP BY p.project_name;
156
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158 • SELECT d.dept_name, AVG(e.salary) AS Avg_Salary, MAX(e.salary) AS Max_Salary
159     FROM Department d
160     LEFT JOIN Employee e ON d.dept_id = e.dept_id
161     GROUP BY d.dept_name;
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164 • SELECT e.emp_id, e.emp_name, COALESCE(SUM(i.incentive_amount), 0) AS Total_Incentive
165     FROM Employee e
166     LEFT JOIN Incentive i ON e.emp_id = i.emp_id
167     GROUP BY e.emp_id, e.emp_name;
168
169     -- Employees working on Alpha Project (by dept)
170 • SELECT e.emp_id, e.emp_name, p.project_name
171     FROM Employee e
172     JOIN Project p ON e.dept_id = p.dept_id
173     WHERE p.project_name = 'Alpha Project';
174
175     -- Departments with no employees
176 • SELECT d.dept_id, d.dept_name
177     FROM Department d

```

**Result Grid**

 Filter Rows: 
 Export: 
 Wrap Cell Content: 

|   | dept_name | Avg_Salary   | Max_Salary |
|---|-----------|--------------|------------|
| ▶ | HR        | 75000.000000 | 90000.00   |
|   | Finance   | 75000.000000 | 95000.00   |
|   | R&D       | 81000.000000 | 97000.00   |

```

162
163 -- Total incentives per employee
164 • SELECT e.emp_id, e.emp_name, COALESCE(SUM(i.incentive_amount), 0) AS Total_Incentive
165 FROM Employee e
166 LEFT JOIN Incentive i ON e.emp_id = i.emp_id
167 GROUP BY e.emp_id, e.emp_name;
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170 • SELECT e.emp_id, e.emp_name, p.project_name
171 FROM Employee e
172 JOIN Project p ON e.dept_id = p.dept_id
173 WHERE p.project_name = 'Alpha Project';
174
175 -- Departments with no employees
176 • SELECT d.dept_id, d.dept_name
177 FROM Department d
178 LEFT JOIN Employee e ON d.dept_id = e.dept_id

```

Result Grid   Filter Rows:  | Export:  | Wrap Cell Content: 



|   | emp_id | emp_name | Total_Incentive |
|---|--------|----------|-----------------|
| ▶ | 1      | Ravi     | 0.00            |
|   | 2      | Kiran    | 5000.00         |
|   | 3      | Asha     | 3000.00         |
|   | 4      | Ramesh   | 0.00            |
|   | 5      | Divya    | 7000.00         |
|   | 6      | Suman    | 0.00            |

Limit to 1000 rows

```

164 • SELECT e.emp_id, e.emp_name, COALESCE(SUM(i.incentive_amount), 0) AS Total_Incentive
165 FROM Employee e
166 LEFT JOIN Incentive i ON e.emp_id = i.emp_id
167 GROUP BY e.emp_id, e.emp_name;
168
169 -- Employees working on Alpha Project (by dept)
170 • SELECT e.emp_id, e.emp_name, p.project_name
171 FROM Employee e
172 JOIN Project p ON e.dept_id = p.dept_id
173 WHERE p.project_name = 'Alpha Project';
174
175 -- Departments with no employees
176 • SELECT d.dept_id, d.dept_name
177 FROM Department d
178 LEFT JOIN Employee e ON d.dept_id = e.dept_id
179 WHERE e.emp_id IS NULL;
180
181 -- Managers and their direct report counts
182 • SELECT m.emp_id AS Manager_ID, m.emp_name AS Manager_Name, COUNT(e.emp_id) AS Direct_Reports
183 FROM Employee m
184 LEFT JOIN Employee e ON e.manager_id = m.emp_id
185 GROUP BY m.emp_id, m.emp_name;
186
187 -- Employees linked to departments with multiple projects

```

Result Grid   Filter Rows:  Export:  Wrap Cell Content: 

|   | emp_id | emp_name | Total_Incentive |
|---|--------|----------|-----------------|
| ▶ | 1      | Ravi     | 0.00            |
|   | 2      | Kiran    | 5000.00         |
|   | 3      | Asha     | 3000.00         |
|   | 4      | Ramesh   | 0.00            |
|   | 5      | Divya    | 7000.00         |
|   | 6      | Suman    | 0.00            |

```

174
175 -- Departments with no employees
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177 FROM Department d
178 LEFT JOIN Employee e ON d.dept_id = e.dept_id
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182 • SELECT m.emp_id AS Manager_ID, m.emp_name AS Manager_Name, COUNT(e.emp_id) AS Direct_Reports
183 FROM Employee m
184 LEFT JOIN Employee e ON e.manager_id = m.emp_id
185 GROUP BY m.emp_id, m.emp_name;
186
187 -- Employees linked to departments with multiple projects
188 • SELECT e.emp_id, e.emp_name, COUNT(p.project_id) AS Project_Count
189 FROM Employee e
190 JOIN Project p ON e.dept_id = p.dept_id
191 GROUP BY e.emp_id, e.emp_name
192 HAVING COUNT(p.project_id) > 1;
193

```

Result Grid |   Filter Rows:  | Export:  | Wrap Cell Content: 

| dept_id | dept_name |
|---------|-----------|
|---------|-----------|

-- managers and their direct report counts

- ```
SELECT m.emp_id AS Manager_ID, m.emp_name AS Manager_Name, COUNT(e.emp_id) AS Direct_Reports
FROM Employee m
LEFT JOIN Employee e ON e.manager_id = m.emp_id
GROUP BY m.emp_id, m.emp_name;
```

-- Employees linked to departments with multiple projects

- ```
SELECT e.emp_id, e.emp_name, COUNT(p.project_id) AS Project_Count
FROM Employee e
JOIN Project p ON e.dept_id = p.dept_id
GROUP BY e.emp_id, e.emp_name
HAVING COUNT(p.project_id) > 1;
```

-- =====

-- ☒ PROGRAM 7: SUPPLIER DATABASE

-- =====

- ```
CREATE TABLE Supplier (
    sid INT PRIMARY KEY,
    sname VARCHAR(50)
);
```

Alt Grid |   Filter Rows:  | Export:  | Wrap Cell Content: 

|         |           |
|---------|-----------|
| dept_id | dept_name |
|---------|-----------|



```

187 -- Employees linked to departments with multiple projects
188 • SELECT e.emp_id, e.emp_name, COUNT(p.project_id) AS Project_Count
189 FROM Employee e
190 JOIN Project p ON e.dept_id = p.dept_id
191 GROUP BY e.emp_id, e.emp_name
192 HAVING COUNT(p.project_id) > 1;
193
194 -- =====
195 -- ☑ PROGRAM 7: SUPPLIER DATABASE
196 -- =====
197
198 • ☹ CREATE TABLE Supplier (
199     sid INT PRIMARY KEY,
200     sname VARCHAR(50)
201 );
202

```

Result Grid |   Filter Rows:  | Export:  | Wrap Cell Content: 

|   | emp_id | emp_name | Project_Count |
|---|--------|----------|---------------|
| ▶ | 1      | Ravi     | 2             |
|   | 2      | Kiran    | 2             |