

# SQL Hands On 4

Instruction:

1. Write a query to get employee name, department name(Hint: join).

```
SELECT employee_table.EmpName, department_table.DeptName FROM employee_table  
INNER JOIN department_table ON employee_table.DeptId=department_table.DeptId;
```

✓ Showing rows 0 - 11 (12 total, Query took 0.0003 seconds.)

```
SELECT employee_table.EmpName, department_table.DeptName FROM employee_table INNER JOIN department_table ON  
employee_table.DeptId=department_table.DeptId;
```

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☐ Show all | Number of rows: 25 | Filter rows:  | Sort by key: None

Extra options

| EmpName  | DeptName  |
|----------|-----------|
| Scott    | Executive |
| Clark    | Executive |
| Jeff     | Hr        |
| Marko    | IT        |
| Bryan    | Hr        |
| Frauline | Hr        |
| Phylip   | Hr        |
| Ejerson  | Hr        |
| Julie    | IT        |
| Russel   | IT        |
| Buboy    | IT        |
| Joseph   | IT        |

2. Write a query to get the highest paid employee details in organization.(Hint: sub query <select inside select>)

```
SELECT * FROM employee_table WHERE Salary IN (SELECT MAX(Salary) FROM  
employee_table);
```

Showing rows 0 - 0 (1 total, Query took 0.0160 seconds.)

```
SELECT * FROM employee_table WHERE Salary IN (SELECT MAX(Salary) FROM employee_table);
```

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☐ Show all | Number of rows: 25 | Filter rows:

Extra options

|   | EmpNo | EmpName | Job       | Mgr  | HireDate                   | Salary | Commission | DeptId |
|---|-------|---------|-----------|------|----------------------------|--------|------------|--------|
| <input type="checkbox"/> <a href="#">Edit</a> <a href="#">Copy</a> <a href="#">Delete</a> | 1001  | Scott   | President | NULL | 1978-01-01 00:00:00.000000 | 5000   | NULL       | 1001   |

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3. Write a query to get all department details whose average is more than 2500(Hint: Join, group by, having).

```
SELECT DeptName, Location, AVG( Salary ) AS average_department_salary FROM
employee_table INNER JOIN department_table USING ( DeptID ) GROUP BY
department_table.DeptName HAVING average_department_salary > 2500;
```

Showing rows 0 - 2 (3 total, Query took 0.0005 seconds.)

```
SELECT DeptName, Location, AVG( Salary ) AS average_department_salary FROM employee_table INNER JOIN department_table USING ( DeptID )
GROUP BY department_table.DeptName HAVING average_department_salary > 2500;
```

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☐ Show all | Number of rows: 25 | Filter rows:

Extra options

| DeptName  | Location    | average_department_salary |
|-----------|-------------|---------------------------|
| Executive | BGC         | 4500.0000                 |
| Hr        | Mandaluyong | 3240.0000                 |
| IT        | Bulacan     | 3220.0000                 |

4. Write a query to display department name and count number of employees per department. (Hint: inner join, group by, count).

```
SELECT DeptName AS 'Department Name', COUNT(*) AS 'No of Employees' FROM
department_table INNER JOIN employee_table ON employee_table.DeptId =
department_table.DeptId GROUP BY DeptName ORDER BY DeptName;
```

✓ Showing rows 0 - 2 (3 total, Query took 0.0004 seconds.)

```
SELECT DeptName AS 'Department Name', COUNT(*) AS 'No of Employees' FROM department_table INNER JOIN employee_table ON employee_table.DeptId = department_table.DeptId GROUP BY DeptName ORDER BY DeptName;
```

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☐ Show all | Number of rows: 25 | Filter rows:

Extra options

| Department Name | No of Employees |
|-----------------|-----------------|
| Executive       | 2               |
| Hr              | 5               |
| IT              | 5               |

NOTE: SALES AND SALESMAN HAS DIF. DEPTID, THEREFORE NO WORKER IN THAT DEPARTMENT

5. Write a query to display employee name, department and location. (Hint: join, alias)

```
SELECT EmpName, department_table.DeptName, department_table.Location FROM employee_table, department_table WHERE employee_table.DeptId = department_table.DeptId;
```

✓ Showing rows 0 - 11 (12 total, Query took 0.0003 seconds.)

```
SELECT EmpName, department_table.DeptName, department_table.Location FROM employee_table, department_table WHERE employee_table.DeptId = department_table.DeptId;
```

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☐ Show all | Number of rows: 25 | Filter rows:

Extra options

| EmpName  | DeptName  | Location    |
|----------|-----------|-------------|
| Scott    | Executive | BGC         |
| Clark    | Executive | BGC         |
| Jeff     | Hr        | Mandaluyong |
| Marko    | IT        | Bulacan     |
| Bryan    | Hr        | Mandaluyong |
| Frauline | Hr        | Mandaluyong |
| Phyllip  | Hr        | Mandaluyong |
| Ejerson  | Hr        | Mandaluyong |
| Julie    | IT        | Bulacan     |
| Russel   | IT        | Bulacan     |
| Buboy    | IT        | Bulacan     |
| Joseph   | IT        | Bulacan     |

6. Write a query to display employee name and his/her manager. (Hint: join, alias)

```
SELECT EmpName AS Employer_Name, Job AS Manager FROM employee_table INNER JOIN department_table ON employee_table.DeptId=department_table.DeptId;
```

Showing rows 0 - 11 (12 total, Query took 0.0003 seconds.)

```
SELECT EmpName AS Employer_Name, Job AS Manager FROM employee_table INNER JOIN department_table ON employee_table.DeptId=department_table.DeptId;
```

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☐ Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

Extra options

| Employer_Name | Manager   |
|---------------|-----------|
| Scott         | President |
| Clark         | Manager   |
| Jeff          | Manager   |
| Marko         | Manager   |
| Bryan         | Salesman  |
| Frauline      | Salesman  |
| Philip        | Salesman  |
| Ejerson       | Clerk     |
| Julie         | Clerk     |
| Russel        | Analyst   |
| Buboy         | Analyst   |
| Joseph        | Analyst   |

7. Write a query to display total no of employee joined on 1978-01-01.

```
SELECT * FROM employee_table WHERE HireDate LIKE '1978-01-01%';
```

Showing rows 0 - 3 (4 total, Query took 0.0003 seconds.)

```
SELECT * FROM employee_table WHERE HireDate LIKE '1978-01-01%';
```

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☐ Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

Extra options

|   | EmpNo | EmpName | Job       | Mgr  | HireDate                   | Salary | Commission | DeptId |
|---|-------|---------|-----------|------|----------------------------|--------|------------|--------|
| <input type="checkbox"/> Edit Copy Delete | 1001  | Scott   | President | NULL | 1978-01-01 00:00:00.000000 | 5000   | NULL       | 1001   |
| <input type="checkbox"/> Edit Copy Delete | 1058  | Clark   | Manager   | 1001 | 1978-01-01 00:00:00.000000 | 4000   | NULL       | 1001   |
| <input type="checkbox"/> Edit Copy Delete | 1059  | Jeff    | Manager   | 1001 | 1978-01-01 00:00:00.000000 | 3500   | 500        | 1002   |
| <input type="checkbox"/> Edit Copy Delete | 1060  | Marko   | Manager   | 1001 | 1978-01-01 00:00:00.000000 | 4000   | NULL       | 1003   |

Check all | With selected: Edit Copy Delete Export

8. Write a query to get the list of department name and its total salary in the organization display it in highest to least salary.

```
SELECT department_table.DeptName, SUM(Salary) AS 'TOTAL_SALARY' FROM department_table INNER JOIN employee_table USING (DeptId) GROUP BY department_table.DeptName DESC;
```

Showing rows 0 - 2 (3 total, Query took 0.0004 seconds.)

```
SELECT department_table.DeptName, SUM(Salary) AS 'TOTAL_SALARY' FROM department_table INNER JOIN employee_table USING (DeptId) GROUP BY department_table.DeptName DESC;
```

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☐ Show all | Number of rows: 25 | Filter rows:

Extra options

| DeptName  | TOTAL_SALARY |
|-----------|--------------|
| IT        | 16100        |
| Hr        | 16200        |
| Executive | 9000         |

9. Write a query to get the employee name, department name including employees who are not assigned to any department(Hint: outer join).

```
SELECT EmpName, DeptName FROM employee_table RIGHT OUTER JOIN department_table ON employee_table.DeptId = department_table.DeptId;
```

Showing rows 0 - 13 (14 total, Query took 0.0003 seconds.)

```
SELECT EmpName, DeptName FROM employee_table RIGHT OUTER JOIN department_table ON employee_table.DeptId = department_table.DeptId;
```

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☐ Show all | Number of rows: 25 | Filter rows:  Sort by key: None

Extra options

| EmpName  | DeptName  |
|----------|-----------|
| Scott    | Executive |
| Clark    | Executive |
| Jeff     | Hr        |
| Bryan    | Hr        |
| Frauline | Hr        |
| Philip   | Hr        |
| Ejerson  | Hr        |
| Marko    | IT        |
| Julie    | IT        |
| Russel   | IT        |
| Buboy    | IT        |
| Joseph   | IT        |
| NULL     | Sales     |
| NULL     | Marketing |

10. Write a query to get employee name, department name including departments where no employee is working yet(outer join).

```
SELECT EmpName, department_table.DeptId, department_table.DeptName FROM employee_table RIGHT OUTER JOIN department_table ON employee_table.DeptId = department_table.DeptId;
```

✓ Showing rows 0 - 13 (14 total, Query took 0.0003 seconds.)

```
SELECT EmpName, department_table.DeptId, department_table.DeptName FROM employee_table RIGHT OUTER JOIN department_table ON employee_table.DeptId = department_table.DeptId;
```

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☐ Show all | Number of rows: 25 ▼ Filter rows:  Sort by key: None ▼

Extra options

| EmpName  | DeptId | DeptName  |
|----------|--------|-----------|
| Scott    | 1001   | Executive |
| Clark    | 1001   | Executive |
| Jeff     | 1002   | Hr        |
| Bryan    | 1002   | Hr        |
| Frauline | 1002   | Hr        |
| Phylip   | 1002   | Hr        |
| Ejerson  | 1002   | Hr        |
| Marko    | 1003   | IT        |
| Julie    | 1003   | IT        |
| Russel   | 1003   | IT        |
| Buboy    | 1003   | IT        |
| Joseph   | 1003   | IT        |
| NULL     | 1004   | Sales     |
| NULL     | 1005   | Marketing |