# SQL Learning from scratch

```
-- set 5
```

```
-- TOP
-- SUM
-- AVG
-- MAX
-- COUNT
-- ORDER BY
-- #GROUP BY.
-
```

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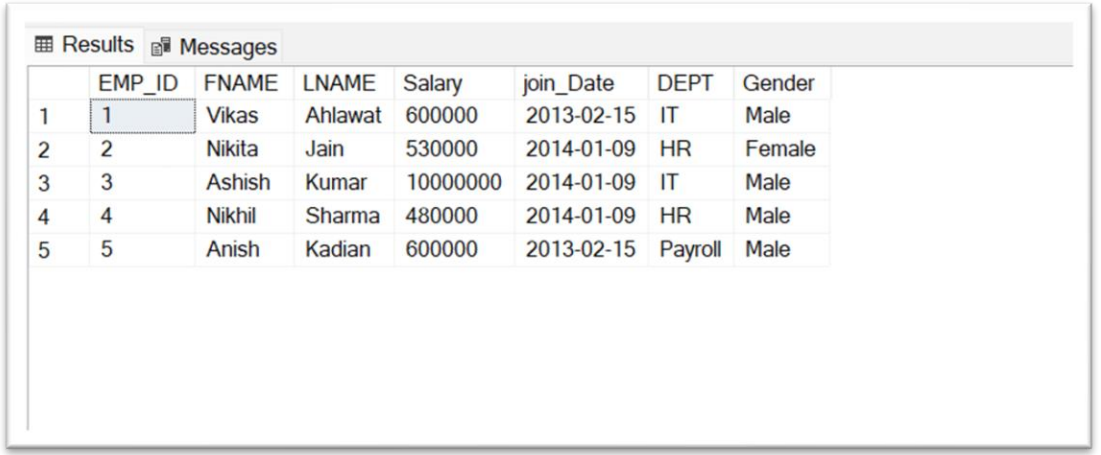
# Query

- `-- 1. write a query to get all employee`
- `select * from EMP;`



Results Messages

| | EMP_ID | FNAME | LNAME | Salary | join_Date | DEPT | Gender |
|---|---|---|---|---|---|---|---|
| 1 | 1 | Vikas | Ahlawat | 600000 | 2013-02-15 | IT | Male |
| 2 | 2 | Nikita | Jain | 530000 | 2014-01-09 | HR | Female |
| 3 | 3 | Ashish | Kumar | 10000000 | 2014-01-09 | IT | Male |
| 4 | 4 | Nikhil | Sharma | 480000 | 2014-01-09 | HR | Male |
| 5 | 5 | Anish | Kadian | 600000 | 2013-02-15 | Payroll | Male |

# Query_1

```
-- 1. print the dept name with the max salary;
select dept, max(salary) as max_salary
from emp
group by dept
```

Results | Messages

| | dept | max_salary |
|---|---|---|
| 1 | HR | 530000 |
| 2 | IT | 10000000 |
| 3 | Payroll | 600000 |

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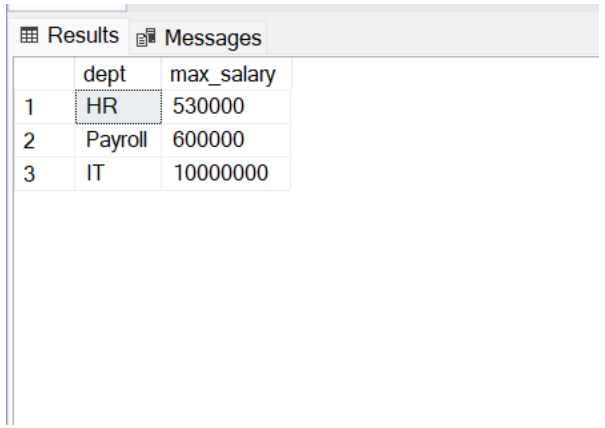
# Query_2

```
-- 2. print the dept name, max salary in an ascending order.
select dept, max(salary) as max_salary
from emp
group by dept
order by max_salary asc
```



Results | Messages

| | dept | max_salary |
|---|---|---|
| 1 | HR | 530000 |
| 2 | Payroll | 600000 |
| 3 | IT | 10000000 |

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# Query_3

```
-- 3. print the dept name, total salary in an descending order
select dept, sum(salary) as total_salary
from emp
group by dept
order by total_salary desc
```

Results | Messages

| | dept | total_salary |
|---|---|---|
| 1 | IT | 10600000 |
| 2 | HR | 1010000 |
| 3 | Payroll | 600000 |

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# Query_4

```
-- 4. print the dept name with the count of employee and the sum of salaries.
select dept,  count(dept) as count_employee, sum(salary) as total_salaries
from emp
group by dept
order by count_employee
```

Results | Messages

| | dept | count_employee | total_salaries |
|---|---|---|---|
| 1 | Payroll | 1 | 600000 |
| 2 | HR | 2 | 1010000 |
| 3 | IT | 2 | 10600000 |

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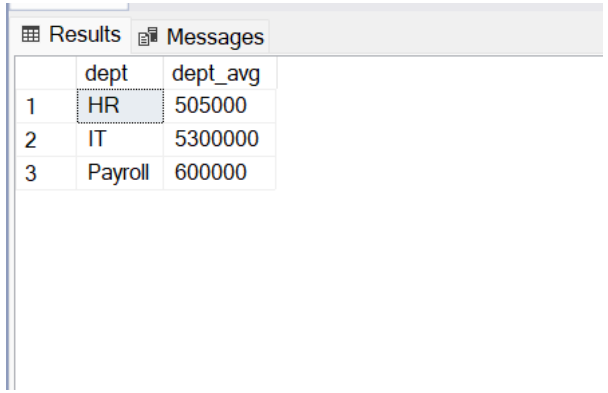
# Query_5

- -- 5. print dept name with an average salary
- select dept, avg(salary) as dept_avg
- from emp
- group by dept




| | dept | dept_avg |
|---|---|---|
| 1 | HR | 505000 |
| 2 | IT | 5300000 |
| 3 | Payroll | 600000 |

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# Query_6

```
-- 6. write the dept having employee more than 1
select dept, count(dept) as employee
from emp
group by dept
HAving count(emp.dept) > 1
```

Results | Messages

| | dept | employee |
|---|---|---|
| 1 | HR | 2 |
| 2 | IT | 2 |

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