Company Database Intro

creating a complex / company database schema in SQL.

More Basic Queries

To find all employees

```
SELECT *
from employee ;
```

Find employees order by salary.

```
SELECT *
FROM employee
order by salary ;
```

Find employees order by sex, and then name.

```
SELECT *
FROM employee
ORDER BY sex, first_name, last_name;
```

Find first 5 employees in the table.

```
SELECT *
FROM employee
LIMIT 5 ;
```

Find first and last names of all employ

```
SELECT first_name, last_name.
FROM employee;
```

To change the name of the column,
Find forenam and surname

```
SELECT first_name AS forename,
       last_name AS surname.
FROM employee;
```

To find all different sexs or branch_id eh

1) `SELECT DISTINCT sex FROM employee`

2) `SELECT DISTINCT branch_id FROM employee`

Distinct keyword is useful when we want to find out what are the different values stored in a particular column

FUNCTIONS

Find the no. of employeer.

```
SELECT  COUNT (emp_id)
FROM    employee.
```

Find no. of supervisor

```
COUNT (super_id)
```

Find no. of female employees born after 1970

```
SELECT  COUNT (emp_id)
FROM    employee
WHERE   sex = 'F'  AND  birth_date > '1970-01-01';
```

↓

limiting the result.

Find the Average of all employee's salaries.

```
SELECT  AVG (salary)
FROM    employee;
```

For average of all males salary

Add `WHERE sex = 'M';`

To find sum of all employees salaries.

```
SELECT SUM(salary)
FROM employee;
```

↓

It Adds up all entries in Row.

Aggregation

1) displays both columns.

```
SELECT COUNT(sex), sex
FROM employee
GROUP BY sex;
```

↓

It's actually grouping by sex, it finds no of male & female in employees.

2) To find total sales of each salesman

```
SELECT SUM(total_sales), emp_id
FROM works_with
GROUP BY emp_id;
```