

Operators:

1. Arithmetic Operators: +,-,*,/

Ex. To get annual salary of employees.

```
SELECT ename, sal*12 AS AnnualSalary  
From emp;
```

```
mysql> SELECT ename, sal*12 AS AnnualSalary  
-> From emp;
```

ename	AnnualSalary
SMITH	9600.00
ALLEN	19200.00
WARD	15000.00
JONES	35700.00
MARTIN	15000.00
BLAKE	34200.00
CLARK	29400.00
SCOTT	36000.00
KING	60000.00
TURNER	18000.00
ADAMS	13200.00
JAMES	11400.00
FORD	36000.00
MILLER	15600.00

```
+-----+-----+
```

14 rows in set (0.00 sec)

Relational Operator: =, !=, >, <

Ex. To get employees list whose salary is greater than 2000.

Select *

From emp

Where sal > 2000;

mysql> Select *

-> From emp

-> Where sal > 2000;

```
+-----+-----+-----+-----+-----+-----+-----+
```

```
--+-----+
```

```
| EMPNO | ENAME | JOB      | MGR | HIREDATE
```

```
| SAL   | COMM | DEPTNO |
```

```
+-----+-----+-----+-----+-----+-----+-----+
```

```
--+-----+
```

```
| 7566 | JONES | MANAGER | 7839 | 1981-04-02
```

```
| 2975.00 | NULL | 20 |
```

```
| 7698 | BLAKE | MANAGER | 7839 | 1981-05-01
```

```
| 2850.00 | NULL | 30 |
```

7782	CLARK	MANAGER	7839	1981-06-09	2450.00	NULL	10
7788	SCOTT	ANALYST	7566	1982-12-09	3000.00	NULL	20
7839	KING	PRESIDENT	NULL	1981-11-17	5000.00	NULL	10
7902	FORD	ANALYST	7566	1981-12-03	3000.00	NULL	20

Logical Operators:AND , OR , NOT

SELECT *

From emp

Where age > 25 AND sal > 2000;

WHERE Clause:

Filters records based on the condition.

Example:

1. Retrieve employees whose job title is 'Manager'.

➔ Select ename, job

➔ From emp

➔ Where job = 'Manager';

```
mysql> Select ename, job From emp Where job =  
'Manager';
```

```
+-----+-----+  
| ename | job   |  
+-----+-----+  
| JONES | MANAGER |  
| BLAKE | MANAGER |  
| CLARK | MANAGER |  
+-----+-----+
```

Select employee names, job titles and salary for those who are working in dept no 30.

```
Select ename, job, sal  
From emp  
Where deptno = 30;
```

```
mysql> Select ename, job, sal  
-> From emp  
-> Where deptno = 30;
```

ename	job	sal
ALLEN	SALESMAN	1600.00
WARD	SALESMAN	1250.00
MARTIN	SALESMAN	1250.00
BLAKE	MANAGER	2850.00
TURNER	SALESMAN	1500.00
JAMES	CLERK	950.00

Between.....And Operator:

- This operator is use to filter records based on given range of values.
- It includes both the start and the end values of the range.

SYNTAX:

SELECT column_name(s)

From table_name

Where column_name BETWEEN value1 AND value2;

Note:

Works with numeric, text and date values.

1.Example

Selecting employees hired between two dates.

Select ename, hiredate

From emp

Where hiredate between '1981-04-01' and '1981-05-01';

2.Example:

Finding products priced between 10 and 50.

Table : product

Columns: Price, product_name

Select product_name, price

From product

Where price between 10 and 50;

Ex. Retrieving students with grades between 80 to 90.

