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Mysql Day 4: 04-10-202

Duplicate the table along with the record:

Create table tbl_employee1 as select * from tbl_employee;

```
mysql> create table tbl_employee1 as select * from tbl_employee;
Query OK, 1 row affected (0.04 sec)
Records: 1 Duplicates: 0 Warnings: 0

mysql> select * from tbl_employee;
+-----+-----+-----+-----+
| id | name | salary | dno |
+-----+-----+-----+-----+
| 101 | Valan | 3000 | 10 |
+-----+-----+-----+-----+
1 row in set (0.00 sec)

mysql> select * from tbl_employee1;
+-----+-----+-----+-----+
| id | name | salary | dno |
+-----+-----+-----+-----+
| 101 | Valan | 3000 | 10 |
+-----+-----+-----+-----+
1 row in set (0.00 sec)
```

Duplicate the table structure without the record:

```
mysql> create table tbl_employee2 as select * from tbl_employee where 1=2;
Query OK, 0 rows affected (0.02 sec)
Records: 0 Duplicates: 0 Warnings: 0

mysql> select * from tbl_employee2;
Empty set (0.00 sec)

mysql> desc tbl_employee2;
+-----+-----+-----+-----+-----+-----+
| Field | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| id    | int           | NO   |     | NULL    |       |
| name  | varchar(20)   | YES  |     | NULL    |       |
| salary | int           | YES  |     | NULL    |       |
| dno   | int           | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.01 sec)
```

Group By command:

Going to group particular groups and do particular operations.

Count() is a predefined group in mysql.

select count(*) from tbl_employee1 group by dno;

select count(*) from tbl_employee1 group by dno;

select dno, count(*) from tbl_employee1 group by dno;

```
mysql> select count(*) from tbl_employee1;
+-----+
| count(*) |
+-----+
|         5 |
+-----+
1 row in set (0.01 sec)

mysql> select count(*) from tbl_employee1 group by dno;
+-----+
| count(*) |
+-----+
|         2 |
|         3 |
+-----+
2 rows in set (0.00 sec)

mysql> select dno, count(*) from tbl_employee1 group by dno;
+-----+-----+
| dno  | count(*) |
+-----+-----+
|    10 |         2 |
|    20 |         3 |
+-----+-----+
2 rows in set (0.00 sec)
```

select dno as "Department No", count(*) as "No of Employees" from tbl_employee1 group by dno;

```
mysql> select dno as "Department No", count(*) as "No of Employees" from tbl_employee1 group by dno;
+-----+-----+
| Department No | No of Employees |
+-----+-----+
|          10 |         2 |
|          20 |         3 |
+-----+-----+
2 rows in set (0.00 sec)
```

Sum()

select dno as "Department No", sum(salary) as "Total Salary" from tbl_employee1 group by dno;

```
mysql> select dno as "Department No", sum(salary) as "Total Salary" from tbl_employee1 group by dno;
+-----+-----+
| Department No | Total Salary |
+-----+-----+
|          10 |       7000 |
|          20 |      18000 |
+-----+-----+
2 rows in set (0.00 sec)
```

Avg()

select dno as "Department No", avg(salary) as "Average salary" from tbl_employee1 group by dno;

```
mysql> select dno as "Department No", avg(salary) as "Average salary" from tbl_employee1 group by dno;
+-----+-----+
| Department No | Average salary |
+-----+-----+
|          10  |      3500.0000 |
|          20  |      6000.0000 |
+-----+-----+
2 rows in set (0.00 sec)
```

Min()

select dno as "Department No", min(salary) as "Minimum salary" from tbl_employee1 group by dno;

```
mysql> select dno as "Department No", min(salary) as "Minimum salary" from tbl_employee1 group by dno;
+-----+-----+
| Department No | Minimum salary |
+-----+-----+
|          10  |          3000 |
|          20  |          5000 |
+-----+-----+
2 rows in set (0.00 sec)
```

Max()

select dno as "Department No", max(salary) as "Maximum salary" from tbl_employee1 group by dno;

```
mysql> select dno as "Department No", max(salary) as "Maximum salary" from tbl_employee1 group by dno;
+-----+-----+
| Department No | Maximum salary |
+-----+-----+
|          10  |          4000 |
|          20  |          7000 |
+-----+-----+
2 rows in set (0.00 sec)
```