

Practical no.06

```
sudo mysql
[sudo] password for student:
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 10
Server version: 8.0.36-0ubuntu0.22.04.1 (Ubuntu)
```

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Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

```
mysql> show databases
-> ;
+-----+
| Database                |
+-----+
| information_schema      |
| mysql                   |
| performance_schema     |
| s190958555              |
| sys                     |
+-----+
5 rows in set (0.01 sec)
```

```
mysql> use mysql
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A
```

Database changed

```
mysql> show tables;
+-----+
| Tables_in_mysql          |
+-----+
| Employee                 |
| STUDENT                  |
| Student_info             |
| TE                       |
| columns_priv             |
| component                |
| db                       |
| default_roles            |
| dept                     |
| emp                      |
| employee                 |
| engine_cost              |
| faculty                  |
| func                     |
| general_log              |
| global_grants            |
| gtid_executed            |
+-----+
```

```
| help_category
| help_keyword
| help_relation
| help_topic
| innodb_index_stats
| innodb_table_stats
| money_info
| password_history
| plugin
| procs_priv
| proxies_priv
| replication_asynchronous_connection_failover
| replication_asynchronous_connection_failover_managed
| replication_group_configuration_version
| replication_group_member_actions
| role_edges
| server_cost
| servers
| slave_master_info
| slave_relay_log_info
| slave_worker_info
| slow_log
| stud
| student
| t
| tables_priv
| time_zone
| time_zone_leap_second
| time_zone_name
| time_zone_transition
| time_zone_transition_type
| user
```

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

49 rows in set (0.01 sec)

```
mysql> create table Employee (emp_id int, emp_name varchar(20), DOB
date , emp_department varchar(30));
```

Query OK, 0 rows affected (0.55 sec)

```
mysql> desc Employee;
```

```
+-----+-----+-----+-----+-----+-----+
| Field          | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| emp_id         | int           | YES  |     | NULL    |       |
| emp_name       | varchar(20)   | YES  |     | NULL    |       |
| DOB            | date          | YES  |     | NULL    |       |
| emp_department | varchar(30)   | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
```

4 rows in set (0.08 sec)

```
mysql> alter table Employee
-> add (Salary float);
```

Query OK, 0 rows affected (0.81 sec)

Records: 0 Duplicates: 0 Warnings: 0

```
mysql> desc Employee;
```

```
+-----+-----+-----+-----+-----+-----+
| Field          | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| emp_id         | int           | YES  |     | NULL    |       |
| emp_name       | varchar(20)   | YES  |     | NULL    |       |
```

DOB	date	YES		NULL		
emp_department	varchar(30)	YES		NULL		
Salary	float	YES		NULL		

5 rows in set (0.01 sec)

```
mysql> insert into Employee values(91,"Hrutvik", '1996-05-14', "Manager", 95000);
```

Query OK, 1 row affected (0.07 sec)

```
mysql> insert into Employee values(92,"Nikita", '1998-04-01', "CEO",5300000);
```

Query OK, 1 row affected (0.07 sec)

```
mysql> insert into Employee values(93,"Rita", '1998-11-21', "Manager",95000);
```

Query OK, 1 row affected (0.06 sec)

```
mysql> insert into Employee values(94,"Anshul", '1997-03-16', "Devloper",3000000);
```

Query OK, 1 row affected (0.08 sec)

```
mysql> insert into Employee values(95,"Kunal", '1999-02-19', "Tester",120000);
```

Query OK, 1 row affected (0.07 sec)

```
mysql> insert into Employee values(96,"Meghaj", '2000-10-30', "HR",1500000);
```

Query OK, 1 row affected (0.09 sec)

```
mysql> Select * from Employee;
```

emp_id	emp_name	DOB	emp_department	Salary
91	Hrutvik	1996-05-14	Manager	95000
92	Nikita	1998-04-01	CEO	5300000
93	Rita	1998-11-21	Manager	95000
94	Anshul	1997-03-16	Devloper	3000000
95	Kunal	1999-02-19	Tester	120000
96	Meghaj	2000-10-30	HR	1500000

6 rows in set (0.00 sec)

```
mysql> create table Fresher (emp_id int, emp_name varchar(20), Join_date date , emp_department varchar(30), Salary float);
```

Query OK, 0 rows affected (0.43 sec)

```
mysql> desc Fresher;
```

Field	Type	Null	Key	Default	Extra
emp_id	int	YES		NULL	
emp_name	varchar(20)	YES		NULL	
Join_date	date	YES		NULL	
emp_department	varchar(30)	YES		NULL	
Salary	float	YES		NULL	

5 rows in set (0.00 sec)

```
mysql> insert into Fresher values(1,"Palash", '2014-09-24', "Manage
```

```
r", 95000);
```

```
Query OK, 1 row affected (0.08 sec)
```

```
mysql> insert into Fresher values(2,"Arnavi", '2012-01-02', "CEO",  
98000);
```

```
Query OK, 1 row affected (0.08 sec)
```

```
mysql> insert into Fresher values(3,"Avdoot", '2015-08-06', "HR", 990
```

```
Query OK, 1 row affected (0.11 sec)
```

```
mysql> insert into Fresher values(4,"Rutika", '2013-12-14', "CEO",  
990
```

```
Query OK, 1 row affected (0.08 sec)
```

```
mysql> insert into Fresher values(5,"Rucha", '2016-07-22', "HR", 89000);
```

```
Query OK, 1 row affected (0.07 sec)
```

```
mysql> insert into Fresher values(6,"Ansh", '2012-05-12', "Manager",  
90000);
```

```
Query OK, 1 row affected (0.10 sec)
```

```
mysql> insert into Fresher values(7,"Riva", '2022-03-12', "Manager",  
90000);
```

```
Query OK, 1 row affected (0.06 sec)
```

```
mysql> insert into Fresher values(8,"Hrutvik", '2022-07-14', "Manager",  
95000);
```

```
Query OK, 1 row affected (0.09 sec)
```

```
mysql> Select * from Fresher;
```

emp_id	emp_name	Join_date	emp_department	Salary
1	Palash	2014-09-24	Manager	95000
2	Arnavi	2012-01-02	CEO	98000
3	Avdoot	2015-08-06	HR	99000
4	Rutika	2013-12-14	CEO	990000
5	Rucha	2016-07-22	HR	89000
6	Ansh	2012-05-12	Manager	90000
7	Riva	2022-03-12	Manager	90000
8	Hrutvik	2022-07-14	Manager	95000

```
8 rows in set (0.00 sec)
```

```
mysql> Select * from Employee union select * from Fresher;
```

emp_id	emp_name	DOB	emp_department	Salary
91	Hrutvik	1996-05-14	Manager	95000
92	Nikita	1998-04-01	CEO	5300000
93	Rita	1998-11-21	Manager	95000
94	Anshul	1997-03-16	Devloper	3000000
95	Kunal	1999-02-19	Tester	120000
96	Meghaj	2000-10-30	HR	1500000
1	Palash	2014-09-24	Manager	95000
2	Arnavi	2012-01-02	CEO	98000
3	Avdoot	2015-08-06	HR	99000
4	Rutika	2013-12-14	CEO	990000

5	Rucha	2016-07-22	HR	89000
6	Ansh	2012-05-12	Manager	90000
7	Riva	2022-03-12	Manager	90000
8	Hrutvik	2022-07-14	Manager	95000

14 rows in set (0.00 sec)

```
mysql> Select * from Employee union all select * from Fresher;
```

emp_id	emp_name	DOB	emp_department	Salary
91	Hrutvik	1996-05-14	Manager	95000
92	Nikita	1998-04-01	CEO	5300000
93	Rita	1998-11-21	Manager	95000
94	Anshul	1997-03-16	Devloper	3000000
95	Kunal	1999-02-19	Tester	120000
96	Meghaj	2000-10-30	HR	1500000
1	Palash	2014-09-24	Manager	95000
2	Arnavi	2012-01-02	CEO	98000
3	Avdoot	2015-08-06	HR	99000
4	Rutika	2013-12-14	CEO	990000
5	Rucha	2016-07-22	HR	89000
6	Ansh	2012-05-12	Manager	90000
7	Riva	2022-03-12	Manager	90000
8	Hrutvik	2022-07-14	Manager	95000

14 rows in set (0.00 sec)

```
mysql> Select distinct Salary from Employee where Salary in (select Salary from Fresher);
```

Salary
95000

1 row in set (0.03 sec)

```
mysql> Select * from Fresher;
```

emp_id	emp_name	Join_date	emp_department	Salary
1	Palash	2014-09-24	Manager	95000
2	Arnavi	2012-01-02	CEO	98000
3	Avdoot	2015-08-06	HR	99000
4	Rutika	2013-12-14	CEO	990000
5	Rucha	2016-07-22	HR	89000
6	Ansh	2012-05-12	Manager	90000
7	Riva	2022-03-12	Manager	90000
8	Hrutvik	2022-07-14	Manager	95000

8 rows in set (0.00 sec)

```
mysql> Select * from Employee;
```

emp_id	emp_name	DOB	emp_department	Salary
91	Hrutvik	1996-05-14	Manager	95000

92	Nikita	1998-04-01	CEO	5300000
93	Rita	1998-11-21	Manager	95000
94	Anshul	1997-03-16	Devloper	3000000
95	Kunal	1999-02-19	Tester	120000
96	Meghaj	2000-10-30	HR	1500000

6 rows in set (0.01 sec)

```
mysql> Select distinct emp_name from Employee where emp_name in (select emp_name from Fresher);
```

emp_name
Hrutvik

1 row in set (0.00 sec)

```
mysql> Select min(Salary)from Employee;
```

min(Salary)
95000

1 row in set (0.02 sec)

```
mysql> Select max(Salary)from Employee;
```

max(Salary)
5300000

1 row in set (0.00 sec)

```
mysql> Select sum(Salary)from Employee;
```

sum(Salary)
10110000

1 row in set (0.00 sec)

```
mysql> Select sum(Salary)from Fresher;
```

sum(Salary)
1646000

1 row in set (0.00 sec)

```
mysql> Select avg(Salary)from Employee;
```

avg(Salary)
1685000

1 row in set (0.00 sec)

```
mysql> Select count(Salary) from Employee;
+-----+
| count(Salary) |
+-----+
|              6 |
+-----+
1 row in set (0.00 sec)
```

```
mysql> Select ucase(emp_id) from Employee;
+-----+
| ucase(emp_id) |
+-----+
| 91             |
| 92             |
| 93             |
| 94             |
| 95             |
| 96             |
+-----+
6 rows in set (0.01 sec)
```

```
mysql>
mysql> Select lcase(emp_id) from Employee;
+-----+
| lcase(emp_id) |
+-----+
| 91             |
| 92             |
| 93             |
| 94             |
| 95             |
| 96             |
+-----+
6 rows in set (0.00 sec)
```

```
mysql> Select lcase(Salary) from Employee;
+-----+
| lcase(Salary) |
+-----+
| 95000          |
| 5300000        |
| 95000          |
| 3000000        |
| 120000         |
| 1500000        |
+-----+
6 rows in set (0.01 sec)
```

```
mysql> Select ucase(Salary) from Employee;
+-----+
| ucase(Salary) |
+-----+
| 95000          |
| 5300000        |
| 95000          |
| 3000000        |
| 120000         |
| 1500000        |
+-----+
```

```

| 1500000 |
+-----+
6 rows in set (0.01 sec)
mysql> Select mid(emp_id, 1,1)from Employee;
+-----+
| mid(emp_id, 1,1) |
+-----+
| 9 |
| 9 |
| 9 |
| 9 |
| 9 |
| 9 |
+-----+
6 rows in set (0.00 sec)

```

```

mysql> Select mid(emp_id, 1,3)from Employee;
+-----+
| mid(emp_id, 1,3) |
+-----+
| 91 |
| 92 |
| 93 |
| 94 |
| 95 |
| 96 |
+-----+
6 rows in set (0.00 sec)

```

```

mysql> Select mid(emp_id, 1,5)from Employee;
+-----+
| mid(emp_id, 1,5) |
+-----+
| 91 |
| 92 |
| 93 |
| 94 |
| 95 |
| 96 |
+-----+
6 rows in set (0.00 sec)

```

```

mysql> Select mid(Salary,1,3)from Employee;
+-----+
| mid(Salary,1,3) |
+-----+
| 950 |
| 530 |
| 950 |
| 300 |
| 120 |
| 150 |
+-----+
6 rows in set (0.00 sec)

```

```

mysql> Select mid(Salary,1,5)from Employee;
+-----+

```



```
| mid(Salary,1,5) |
+-----+
| 95000           |
| 53000           |
| 95000           |
| 30000           |
| 12000           |
| 15000           |
+-----+
6 rows in set (0.00 sec)
```