

Practical 2

Enter password: *****

Welcome to the MySQL monitor. Commands end with ; or \g.

Your MySQL connection id is 9

Server version: 9.2.0 MySQL Community Server - GPL

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

```
mysql> show databases;
```

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

```
| Database      |
```

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

```
| bank          |
```

```
| information_schema |
```

```
| mysql         |
```

```
| new           |
```

```
| now           |
```

```
| performance_schema |
```

```
| sys           |
```

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

7 rows in set (0.06 sec)

```
mysql> use bank;
```

Database changed

```
mysql> select abs(-6);
```

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

```
| abs(-6) |
```

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

```
|    6 |
```

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

1 row in set (0.00 sec)

```
mysql> select CEIL(4.2);
```

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

```
| CEIL(4.2) |
```

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

```
|    5 |
```

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

1 row in set (0.00 sec)

```
mysql> select FLOOR(2.6);
```

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

```
| FLOOR(2.6) |
```

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

```
|    2 |
```

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

1 row in set (0.00 sec)

```
mysql> select ROUND(3.446,2);
```

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

```
| ROUND(3.446,2) |
```

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

```
|      3.45 |
```

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

```
1 row in set (0.00 sec)
```

```
mysql> select POWER(5,3);
```

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

```
| POWER(5,3) |
```

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

```
|    125 |
```

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

```
1 row in set (0.01 sec)
```

```
mysql> select SQRT(7);
```

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

```
| SQRT(7)      |
```

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

```
| 2.6457513110645907 |
```

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

```
1 row in set (0.00 sec)
```

```
mysql> select SIN(0);
```

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

```
| SIN(0) |
```

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

```
| 0 |
```

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

```
1 row in set (0.00 sec)
```

```
mysql> select COS(0);
```

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

```
| COS(0) |
```

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

```
| 1 |
```

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

```
1 row in set (0.00 sec)
```

```
mysql> select LOG(9);
```

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

```
| LOG(9) |
```

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

```
| 2.1972245773362196 |
```

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

```
1 row in set (0.00 sec)
```

```
mysql> select TAN(30);
```

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

```
| TAN(30) |
```

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

```
| -6.405331196646276 |
```

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

```
1 row in set (0.00 sec)
```

```
mysql> desc employee;
```

```
+-----+-----+-----+-----+-----+
| Field      | Type      | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+
| Name       | varchar(30)| YES  |     | NULL    |       |
| set_id     | int       | NO   | PRI | NULL    |       |
| branch     | varchar(50)| NO   |     | talegaon|       |
| transaction_id | int      | NO   | MUL | NULL    |       |
| customer_id | int       | NO   | MUL | NULL    |       |
+-----+-----+-----+-----+-----+
```

```
5 rows in set (0.02 sec)
```

```
mysql> desc customer;
```

```
+-----+-----+-----+-----+-----+
| Field      | Type      | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+
| customer_id | int       | NO   | PRI | NULL    |       |
| name       | varchar(10)| NO   |     | NULL    |       |
| address    | varchar(50)| NO   |     | NULL    |       |
| contactno  | int       | NO   |     | NULL    |       |
| email_id   | varchar(50)| NO   |     | NULL    |       |
| salary     | int       | NO   |     | NULL    |       |
+-----+-----+-----+-----+-----+
```

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

```
mysql> select * from customer;
```

```
+-----+-----+-----+-----+-----+-----+
| customer_id | name  | address | contactno | email_id | salary |
+-----+-----+-----+-----+-----+-----+
```

```

+-----+-----+-----+-----+-----+
| 345 | anita | pune | 78946789 | anita23@gmail.com | 500000 |
| 355 | ajay | mumbai | 9876543 | ajay23@gmail.com | 550000 |
| 356 | aman | bengaluru | 9876783 | aman90@gmail.com | 60000 |
| 358 | sunita | thane | 7654893 | sunita23@gmail.com | 70000 |
+-----+-----+-----+-----+-----+
4 rows in set (0.04 sec)

```

```
mysql> select min(salary) from customer;
```

```

+-----+
| min(salary) |
+-----+
| 60000 |
+-----+

```

```
1 row in set (0.01 sec)
```

```
mysql> select max(salary) from customer;
```

```

+-----+
| max(salary) |
+-----+
| 550000 |
+-----+

```

```
1 row in set (0.00 sec)
```

```
mysql> select avg(salary) from customer;
```

```

+-----+
| avg(salary) |
+-----+

```

```
| 295000.0000 |
```

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

```
1 row in set (0.00 sec)
```

```
mysql> select count(salary) from customer;
```

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

```
| count(salary) |
```

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

```
|      4 |
```

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

```
1 row in set (0.01 sec)
```

```
mysql> select sum(salary) from customer;
```

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

```
| sum(salary) |
```

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

```
| 1180000 |
```

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

```
1 row in set (0.00 sec)
```

```
mysql> select length('apeksha');
```

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

```
| length('apeksha') |
```

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

```
|      7 |
```

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

```
1 row in set (0.00 sec)
```

```
mysql> select concat_ws('hello','NULL','World');
```

```
+-----+
| concat_ws('hello','NULL','World') |
+-----+
| NULLhelloWorld                    |
+-----+
```

```
1 row in set (0.00 sec)
```

```
mysql> select ELT(3,'abc','aa','axy');
```

```
+-----+
| ELT(3,'abc','aa','axy') |
+-----+
| axy                      |
+-----+
```

```
1 row in set (0.00 sec)
```

```
mysql> SELECT FIND_IN_SET('c', 'a,b,c,d');
```

```
+-----+
| FIND_IN_SET('c', 'a,b,c,d') |
+-----+
| 3                             |
+-----+
```

```
1 row in set (0.00 sec)
```

```
mysql> select format(123.6789,3);
```

```
+-----+
| format(123.6789,3) |
+-----+
```



```
| 123.679      |
+-----+
1 row in set (0.00 sec)
```

```
mysql> select left('ant',7);
```

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

```
| left('ant',7) |
```

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

```
| ant      |
```

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

```
1 row in set (0.00 sec)
```

```
mysql> select right('DYP',990);
```

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

```
| right('DYP',990) |
```

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

```
| DYP      |
```

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

```
1 row in set (0.00 sec)
```

```
mysql> select lower('DUBAI');
```

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

```
| lower('DUBAI') |
```

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

```
| dubai      |
```

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

```
1 row in set (0.00 sec)
```

```
mysql> select upper('dubai');
```

```
+-----+
| upper('dubai') |
+-----+
| DUBAI         |
+-----+
```

```
1 row in set (0.00 sec)
```

```
mysql> select LTRIM('xyz');
```

```
+-----+
| LTRIM('xyz') |
+-----+
| xyz         |
+-----+
```

```
1 row in set (0.00 sec)
```

```
mysql> select repeat('mysql',9);
```

```
+-----+
| repeat('mysql',9) |
+-----+
| mysqlmysqlmysqlmysqlmysqlmysqlmysqlmysqlmysql |
+-----+
```

```
1 row in set (0.00 sec)
```

```
mysql> select replace('Mysql','M','PPP');
```

```
+-----+
| replace('Mysql','M','PPP') |
+-----+
```

| PPPysql | |

$$+ \text{-----} +$$

1 row in set (0.00 sec)

```
mysql> select CURRENT_DATE();
```

$$+ \text{-----} +$$

| CURRENT_DATE() |

$$+ \text{-----} +$$

| 2025-08-06 |

$$+ \text{-----} +$$

1 row in set (0.00 sec)

```
mysql> select now();
```

$$+ \text{-----} +$$

```
| now() |
```

$$+ \text{-----} +$$

| 2025-08-06 00:40:57 |

$$+ \text{-----} +$$

1 row in set (0.00 sec)

```
mysql> select DATEDIFF('2025-10-30','2025-09-01');
```

$$+ \text{-----} +$$

| DATEDIFF('2025-10-30','2025-09-01') |

$$+ \text{-----} +$$

| 59 |

$$+ \text{-----} +$$

1 row in set (0.00 sec)

```
mysql> ^C
```

```
mysql> ;
```

```
ERROR:
```

```
No query specified
```

```
mysql> select month('2025-07-30');
```

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

```
| month('2025-07-30') |
```

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

```
|          7 |
```

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

```
1 row in set (0.00 sec)
```

```
mysql> select year('2025-07-23');
```

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

```
| year('2025-07-23') |
```

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

```
|        2025 |
```

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

```
1 row in set (0.00 sec)
```

```
mysql> select day('2025-07-26');
```

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

```
| day('2025-07-26') |
```

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

```
|        26 |
```

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

```
1 row in set (0.00 sec)
```

```
mysql> select dayname('2025-07-26');
```

```
+-----+
| dayname('2025-07-26') |
+-----+
| Saturday              |
+-----+
```

```
1 row in set (0.00 sec)
```

```
mysql> select localtime();
```

```
+-----+
| localtime()      |
+-----+
| 2025-08-06 00:42:37 |
+-----+
```

```
1 row in set (0.00 sec)
```

```
mysql> select
```

```
-> extract(month from '2025-07-26') as month,
```

```
-> extract(day from '2025-08-25') as day,
```

```
-> extract(year from '2025-08-25') as year;
```

```
+-----+-----+-----+
| month | day | year |
+-----+-----+-----+
| 7     | 25  | 2025 |
+-----+-----+-----+
```

```
1 row in set (0.00 sec)
```

```
mysql> select dayofweek('2025-07-26') AS day_of_Week;
```

```
+-----+
| day_of_Week |
+-----+
|      7      |
+-----+
```

```
1 row in set (0.00 sec)
```

```
mysql> select CURRENT_TIMESTAMP;
```

```
+-----+
| CURRENT_TIMESTAMP |
+-----+
| 2025-08-06 00:48:02 |
+-----+
```

```
1 row in set (0.00 sec)
```

```
mysql> INSERT INTO customer(customer_id, Name,
Address,email_id,contactno,salary)
```

```
-> values(234,'apeksha','mumbai','apekshada@gmail.com','56789654',600000);
```

```
Query OK, 1 row affected (0.04 sec)
```

```
mysql> INSERT INTO customer(customer_id, Name,
Address,email_id,contactno,salary)
```

```
-> values(244,'shubham','pune','shubhamda@gmail.com','1234678',800000);
```

```
Query OK, 1 row affected (0.01 sec)
```

```
mysql> select * from customer;
```

```
+-----+-----+-----+-----+-----+-----+
| customer_id | name   | address | contactno | email_id | salary |
+-----+-----+-----+-----+-----+-----+

```

```

+-----+-----+-----+-----+-----+
| 234 | apeksha | mumbai | 56789654 | apekshada@gmail.com | 600000 |
| 244 | shubham | pune | 1234678 | shubhamda@gmail.com | 800000 |
| 345 | anita | pune | 78946789 | anita23@gmail.com | 500000 |
| 355 | ajay | mumbai | 9876543 | ajay23@gmail.com | 550000 |
| 356 | aman | bengaluru | 9876783 | aman90@gmail.com | 60000 |
| 358 | sunita | thane | 7654893 | sunita23@gmail.com | 70000 |
+-----+-----+-----+-----+-----+
6 rows in set (0.00 sec)

```

```

mysql> create table vip_customer (
  -> customer_id int primary key,
  -> name varchar(200),
  -> address varchar(10),
  -> contactno varchar(20),
  -> salary int
  -> );

```

Query OK, 0 rows affected (0.03 sec)

```

mysql> insert into vip_customer (customer_id,name,address,contactno,salary)
  -> values
  -> (234,'apeksha','mumbai','56789654',600000),
  -> (244,'shubham','pune','1234678',800000);

```

Query OK, 2 rows affected (0.01 sec)

Records: 2 Duplicates: 0 Warnings: 0

```

mysql> select * from vip_customer;
+-----+-----+-----+-----+-----+

```

customer_id	name	address	contactno	salary
234	apeksha	mumbai	56789654	600000
244	shubham	pune	1234678	800000

2 rows in set (0.00 sec)

```
mysql> select customer_id,name from customer
      -> union
      -> select customer_id,name from vip_customer;
```

customer_id	name
234	apeksha
244	shubham
345	anita
355	ajay
356	aman
358	sunita

6 rows in set (0.03 sec)

```
mysql> select customer_id,name from customer
      -> union all
      -> select customer_id,name from vip_customer;
```

customer_id	name
-------------	------

	234		apeksha	
	244		shubham	
	345		anita	
	355		ajay	
	356		aman	
	358		sunita	
	234		apeksha	
	244		shubham	

+-----+-----+

8 rows in set (0.00 sec)

mysql> select customer_id,name from customer

-> intersect

-> select customer_id,name from vip_customer;

	customer_id		name	
--	-------------	--	------	--

+-----+-----+

	234		apeksha	
	244		shubham	

+-----+-----+

2 rows in set (0.00 sec)

mysql> SELECT c.Name, c.salary FROM customer c INNER JOIN vip_customer v ON
c.customer_id = v.customer_id;

+-----+-----+

	Name		salary	
--	------	--	--------	--

+-----+-----+

	apeksha		600000	
--	---------	--	--------	--

```
| shubham | 800000 |
```

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

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

```
mysql> select name,salary
```

```
-> from customer c
```

```
-> where not exists(
```

```
-> select 1 from vip_customer v where v.customer_id=c.customer_id
```

```
-> );
```

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

```
| name | salary |
```

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

```
| anita | 500000 |
```

```
| ajay | 550000 |
```

```
| aman | 60000 |
```

```
| sunita | 70000 |
```

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

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