mysql> show databases;

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

| Database |

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

| information\_schema |

| mydb |

| mysql |

| performance\_schema |

| sys |

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

5 rows in set (0.00 sec)

mysql> use mydb;

Database changed

mysql> show tables;

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

| Tables\_in\_mydb |

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

| mytable |

| person |

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

2 rows in set (0.01 sec)

mysql> select \* from mytable;

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

| id | username | email |

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

| 1 | myuser | myuser@example.com |

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

1 row in set (0.00 sec)

mysql> describe mytable;

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

| Field | Type | Null | Key | Default | Extra |

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

| id | int unsigned | NO | PRI | NULL | auto\_increment |

| username | varchar(100) | NO | | NULL | |

| email | varchar(100) | NO | | NULL | |

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

3 rows in set (0.01 sec)

mysql> show tables;

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

| Tables\_in\_mydb |

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

| mytable |

| person |

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

2 rows in set (0.00 sec)

mysql> show databases;

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

| Database |

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

| information\_schema |

| mydb |

| mysql |

| performance\_schema |

| sys |

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

5 rows in set (0.00 sec)

mysql> CREATE DATABASES ORG;

ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'DATABASES ORG' at line 1

mysql> CREATE DATABASE ORG;

Query OK, 1 row affected (0.02 sec)

mysql> SHOW DATABASES;

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

| Database |

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

| information\_schema |

| mydb |

| mysql |

| org |

| performance\_schema |

| sys |

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

6 rows in set (0.00 sec)

mysql> USE org;

Database changed

mysql> CREATE TABLE worker(

-> WORKER\_ID INT NOT NULL PRIMARY KEY AUTO\_INCREMENT,

-> FIRST\_NAME CHAR(25),

-> LAST\_NAME CHAR(25),

-> SALARY INT(15),

-> JOINING\_DATE DATETIME,

-> DEPARTMENT CHAR(25)

-> );

Query OK, 0 rows affected, 1 warning (0.04 sec)

mysql> DESCRIBE ORG;

ERROR 1146 (42S02): Table 'org.org' doesn't exist

mysql> SHOW DATABASES;

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

| Database |

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

| information\_schema |

| mydb |

| mysql |

| org |

| performance\_schema |

| sys |

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

6 rows in set (0.00 sec)

mysql> USE ORG;

Database changed

mysql> SHOW TABLES;

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

| Tables\_in\_org |

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

| worker |

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

1 row in set (0.00 sec)

mysql> DESCRIBE WORKER;

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

| Field | Type | Null | Key | Default | Extra |

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

| WORKER\_ID | int | NO | PRI | NULL | auto\_increment |

| FIRST\_NAME | char(25) | YES | | NULL | |

| LAST\_NAME | char(25) | YES | | NULL | |

| SALARY | int | YES | | NULL | |

| JOINING\_DATE | datetime | YES | | NULL | |

| DEPARTMENT | char(25) | YES | | NULL | |

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

6 rows in set (0.00 sec)

mysql> INSERT INTO WORKER

-> (WORKER\_ID, FIRST\_NAME, SALARY, JOINING\_DATE, DEPARTMENT)

-> VALUES

-> (001,'Monika','Arora', 100000,'14-02-20 09.00.00','HR'),

-> (002,'Niharika','Verma',80000,'14-06-11 09.00.00','Admin');

ERROR 1136 (21S01): Column count doesn't match value count at row 1

mysql> INSERT INTO WORKER

-> (WORKER\_ID, FIRST\_NAME, SALARY, JOINING\_DATE, DEPARTMENT)

-> (001,'Monika','Arora', 100000,'14-02-20 09.00.00','HR');

ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near '001,'Monika','Arora', 100000,'14-02-20 09.00.00','HR')' at line 3

mysql> INSERT INTO Worker

-> (WORKER\_ID, FIRST\_NAME,LAST\_NAME,SALARY, JOINING\_DATE, DEPARTMENT)

-> (001,'Monika','Arora', 100000,'14-02-20 09.00.00','HR');

ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near '001,'Monika','Arora', 100000,'14-02-20 09.00.00','HR')' at line 3

mysql> SHOW DATADATABASES;

ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'DATADATABASES' at line 1

mysql> SHOW DATABASES;

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

| Database |

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

| information\_schema |

| mydb |

| mysql |

| org |

| performance\_schema |

| sys |

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

6 rows in set (0.00 sec)

mysql> USE ORG;

Database changed

mysql> SHOW TABLES;

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

| Tables\_in\_org |

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

| worker |

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

1 row in set (0.00 sec)

mysql> USE WORKER;

ERROR 1049 (42000): Unknown database 'worker'

mysql> INSERT INTO WORKER

-> ;

ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near '' at line 1

mysql> DESCRIBE ORG;

ERROR 1146 (42S02): Table 'org.org' doesn't exist

mysql> DESCRIBE ORG;

ERROR 1146 (42S02): Table 'org.org' doesn't exist

mysql> SHOW TABLES;

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

| Tables\_in\_org |

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

| worker |

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

1 row in set (0.00 sec)

mysql> SELECT \* FROM WORKER;

Empty set (0.00 sec)

mysql> DESCRIBE WORKER;

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

| Field | Type | Null | Key | Default | Extra |

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

| WORKER\_ID | int | NO | PRI | NULL | auto\_increment |

| FIRST\_NAME | char(25) | YES | | NULL | |

| LAST\_NAME | char(25) | YES | | NULL | |

| SALARY | int | YES | | NULL | |

| JOINING\_DATE | datetime | YES | | NULL | |

| DEPARTMENT | char(25) | YES | | NULL | |

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

6 rows in set (0.00 sec)

mysql> INSERT INTO WORKER(WORKER\_ID,FIRST\_NAME,LAST\_NAME,SALARY,JOINING\_DATE,DEPARTMENT)

-> VALUES

-> (001,'Monika','Arora',100000,'14-02-20 09.00.00','HR');

Query OK, 1 row affected, 1 warning (0.00 sec)

mysql> select \* from worker;

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

| WORKER\_ID | FIRST\_NAME | LAST\_NAME | SALARY | JOINING\_DATE | DEPARTMENT |

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

| 1 | Monika | Arora | 100000 | 2014-02-20 09:00:00 | HR |

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

1 row in set (0.00 sec)

mysql> INSERT INTO WORKER(WORKER\_ID,FIRST\_NAME,LAST\_NAME,SALARY,JOINING\_DATE,DEPARTMENT)

-> VALUES

-> (002,'Niharika','Verma',80000,'14-02-11 09.00.00','Admin')

-> (003,'Vishal','Singhal',300000,'14-02-20 09.00.00','HR')

-> (004,'Amitabh','Singh',50000,'14-06-11 09.00.00','Admin')

-> (005,'Vivek','Bharti',50000,'14-06-20 09.00.00','Admin')

-> (006,'Vipul','Bharti',200000,'14-06-11 09.00.00','Account')

-> (007,'Satish','Kumar',75000,'14-02-20 09.00.00','Account')

-> (008,'Geetika','Chauhan',90000,'14-04-11 09.00.00','Admin');

ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near '(003,'Vishal','Singhal',300000,'14-02-20 09.00.00','HR')

(004,'Amitabh','Singh',' at line 4

mysql> INSERT INTO WORKER(WORKER\_ID,FIRST\_NAME,LAST\_NAME,SALARY,JOINING\_DATE,DEPARTMENT)

-> VALUES

-> (002,'Niharika','Verma',80000,'14-02-11 09.00.00','Admin'),

-> (003,'Vishal','Singhal',300000,'14-02-20 09.00.00','HR'),

-> (004,'Amitabh','Singh',50000,'14-06-11 09.00.00','Admin'),

-> (005,'Vivek','Bharti',50000,'14-06-20 09.00.00','Admin'),

-> (006,'Vipul','Bharti',200000,'14-06-11 09.00.00','Account'),

-> (007,'Satish','Kumar',75000,'14-02-20 09.00.00','Account'),

-> (008,'Geetika','Chauhan',90000,'14-04-11 09.00.00','Admin');

Query OK, 7 rows affected, 7 warnings (0.00 sec)

Records: 7 Duplicates: 0 Warnings: 7

mysql> show tables;

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

| Tables\_in\_org |

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

| worker |

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

1 row in set (0.00 sec)

mysql> describe worker;

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

| Field | Type | Null | Key | Default | Extra |

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

| WORKER\_ID | int | NO | PRI | NULL | auto\_increment |

| FIRST\_NAME | char(25) | YES | | NULL | |

| LAST\_NAME | char(25) | YES | | NULL | |

| SALARY | int | YES | | NULL | |

| JOINING\_DATE | datetime | YES | | NULL | |

| DEPARTMENT | char(25) | YES | | NULL | |

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

6 rows in set (0.00 sec)

mysql> select \* from worker;

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

| WORKER\_ID | FIRST\_NAME | LAST\_NAME | SALARY | JOINING\_DATE | DEPARTMENT |

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

| 1 | Monika | Arora | 100000 | 2014-02-20 09:00:00 | HR |

| 2 | Niharika | Verma | 80000 | 2014-02-11 09:00:00 | Admin |

| 3 | Vishal | Singhal | 300000 | 2014-02-20 09:00:00 | HR |

| 4 | Amitabh | Singh | 50000 | 2014-06-11 09:00:00 | Admin |

| 5 | Vivek | Bharti | 50000 | 2014-06-20 09:00:00 | Admin |

| 6 | Vipul | Bharti | 200000 | 2014-06-11 09:00:00 | Account |

| 7 | Satish | Kumar | 75000 | 2014-02-20 09:00:00 | Account |

| 8 | Geetika | Chauhan | 90000 | 2014-04-11 09:00:00 | Admin |

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

8 rows in set (0.00 sec)

mysql> CREATE TABLE Bonus(WORKER\_REF\_ID INT,

-> ;

ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near '' at line 1

mysql> CREATE TABLE Bonus(WORKER\_REF\_ID INT, BONUS\_AMOUNT INT(10),BONUS\_DATE DATETIME, FOREIGN KEY(WORKER\_REF\_ID) ON DELETE CASECADE);

ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'ON DELETE CASECADE)' at line 1

mysql> CREATE TABLE Bonus(WORKER\_REF\_ID INT, BONUS\_AMOUNT INT(10),BONUS\_DATE DATETIME, FOREIGN KEY(WORKER\_REF\_ID)

-> ON DELETE CASECADE

-> );

ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'ON DELETE CASECADE

)' at line 2

mysql> CREATE TABLE Bonus(WORKER\_REF\_ID INT, BONUS\_AMOUNT INT(10),BONUS\_DATE DATETIME, FOREIGN KEY(WORKER\_REF\_ID);

ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near '' at line 1

mysql> SHOW DATABASES;

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

| Database |

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

| information\_schema |

| mydb |

| mysql |

| org |

| performance\_schema |

| sys |

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

6 rows in set (0.00 sec)

mysql> USE ORG;

Database changed

mysql> SHOW TABLES;

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

| Tables\_in\_org |

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

| worker |

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

1 row in set (0.00 sec)

mysql> SELECT \* FROM WORKER;

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

| WORKER\_ID | FIRST\_NAME | LAST\_NAME | SALARY | JOINING\_DATE | DEPARTMENT |

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

| 1 | Monika | Arora | 100000 | 2014-02-20 09:00:00 | HR |

| 2 | Niharika | Verma | 80000 | 2014-02-11 09:00:00 | Admin |

| 3 | Vishal | Singhal | 300000 | 2014-02-20 09:00:00 | HR |

| 4 | Amitabh | Singh | 50000 | 2014-06-11 09:00:00 | Admin |

| 5 | Vivek | Bharti | 50000 | 2014-06-20 09:00:00 | Admin |

| 6 | Vipul | Bharti | 200000 | 2014-06-11 09:00:00 | Account |

| 7 | Satish | Kumar | 75000 | 2014-02-20 09:00:00 | Account |

| 8 | Geetika | Chauhan | 90000 | 2014-04-11 09:00:00 | Admin |

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

8 rows in set (0.00 sec)

# CREATE TABLE BONUS

mysql> CREATE TABLE Bonus(

-> WORKER\_REF\_ID INT,

-> BONUS\_AMOUNT INT(10),

-> BONUS\_DATE DATETIME,

-> FOREIGN KEY (WORKER\_REF\_ID)

-> ON DELETE CASCADE

-> );

ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'ON DELETE CASCADE

)' at line 6

mysql> CREATE TABLE Bonus(

-> WORKER\_REF\_ID INT,

-> BONUS\_AMOUNT INT(10),

-> BONUS\_DATE DATETIME,

-> FOREIGN KEY (WORKER\_REF\_ID);

ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near '' at line 5

mysql> CREATE TABLE Bonus(

-> WORKER\_REF\_ID INT,

-> BONUS\_AMOUNT INT(10),

-> BONUS\_DATE DATETIME,

-> FOREIGN KEY (WORKER\_REF\_ID)

-> );

ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near ')' at line 6

mysql> CREATE TABLE Bonus(

-> WORKER\_REF\_ID INT,

-> BONUS\_AMOUNT INT(10),

-> BONUS\_DATE DATETIME,FOREIGN KEY(WORKER\_REF\_ID) REFERENCES Worker(WORKER\_ID) ON DELETE CASCADE);

Query OK, 0 rows affected, 1 warning (0.02 sec)

mysql> SHOW TABLES;

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

| Tables\_in\_org |

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

| bonus |

| worker |

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

2 rows in set (0.00 sec)

mysql> DESCRIBE BONUS;

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

| Field | Type | Null | Key | Default | Extra |

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

| WORKER\_REF\_ID | int | YES | MUL | NULL | |

| BONUS\_AMOUNT | int | YES | | NULL | |

| BONUS\_DATE | datetime | YES | | NULL | |

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

3 rows in set (0.00 sec)

mysql> INSERT INTO Bonus

-> (WORKER\_REF\_ID,BONUS\_AMOUNT,BONUS\_DATE) VALUES

-> (001,5000,'16-02-20'),

-> (002,3000,'16-06-11'),

-> (003,4000,'16-02-20'),

-> (001,4500,'16-02-20'),

-> (002,3500,'16-06-11');

Query OK, 5 rows affected (0.00 sec)

Records: 5 Duplicates: 0 Warnings: 0

mysql> SELECT \* FROM Bonus;

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

| WORKER\_REF\_ID | BONUS\_AMOUNT | BONUS\_DATE |

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

| 1 | 5000 | 2016-02-20 00:00:00 |

| 2 | 3000 | 2016-06-11 00:00:00 |

| 3 | 4000 | 2016-02-20 00:00:00 |

| 1 | 4500 | 2016-02-20 00:00:00 |

| 2 | 3500 | 2016-06-11 00:00:00 |

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

5 rows in set (0.00 sec)

# CREATE TABLE TITLE

mysql> CREATE TABLE Title(

-> WORKER\_REF\_ID INT,

-> WORKER\_TITLE CHAR(25),

-> AFFECTED\_FROM DATETIME,

-> FOREIGN KEY(WORKER\_REF\_ID)

-> REFERENCES Worker(WORKER\_ID)

-> ON DELETE CASCADE

-> );

Query OK, 0 rows affected (0.07 sec)

mysql> SHOW TABLES;

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

| Tables\_in\_org |

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

| bonus |

| title |

| worker |

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

3 rows in set (0.00 sec)

mysql> USE TITLE

ERROR 1049 (42000): Unknown database 'title'

mysql> use title;

ERROR 1049 (42000): Unknown database 'title'

mysql> select \* from title

-> ;

Empty set (0.00 sec)

mysql> describe title;

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

| Field | Type | Null | Key | Default | Extra |

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

| WORKER\_REF\_ID | int | YES | MUL | NULL | |

| WORKER\_TITLE | char(25) | YES | | NULL | |

| AFFECTED\_FROM | datetime | YES | | NULL | |

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

3 rows in set (0.01 sec)

mysql> # Q.1:- Write an SQL query to fetch "FIRST\_NAME" from the Worker table usgin the alis name <WORKER\_NAME>.

mysql> select FIRST\_NAME AS WORKER\_NAME from Worker;

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

| WORKER\_NAME |

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

| Monika |

| Niharika |

| Vishal |

| Amitabh |

| Vivek |

| Vipul |

| Satish |

| Geetika |

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

8 rows in set (0.00 sec)

mysql> # Q-2. Write an sql query to fetch "FIRST\_NAME" from the Worker table in Upper case.

mysql> select upper(FIRST\_NAME) from Worker;

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

| upper(FIRST\_NAME) |

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

| MONIKA |

| NIHARIKA |

| VISHAL |

| AMITABH |

| VIVEK |

| VIPUL |

| SATISH |

| GEETIKA |

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

8 rows in set (0.00 sec)

mysql> # Q.3-Write an SQL query to fetch unique values of DEPARTMENT from the Worker table.

mysql> select distince DEPARTMENT from Worker;

ERROR 1054 (42S22): Unknown column 'distince' in 'field list'

mysql> select distinct DEPARTMENT from Worker;

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

| DEPARTMENT |

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

| HR |

| Admin |

| Account |

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

3 rows in set (0.00 sec)

mysql> # Q.4-Write an SQL query to print the first three characters of FIRST\_NAME from the Worker table.

mysql> select substring(FIRST\_NAME 1,3) from Worker;

ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near '1,3) from Worker' at line 1

mysql> select substring(FIRST\_NAME,1,3) from Worker;

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

| substring(FIRST\_NAME,1,3) |

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

| Mon |

| Nih |

| Vis |

| Ami |

| Viv |

| Vip |

| Sat |

| Gee |

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

8 rows in set (0.00 sec)

mysql> # Q-5. Write an SQL query to find the position of alphabet('a') in the first name column'Amitabh' from the worker table.

mysql> select INSTR(FIRST\_NAME,BINARY'a') from Worker where FIRST\_NAME='Amitabh';

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

| INSTR(FIRST\_NAME,BINARY'a') |

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

| 1 |

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

1 row in set, 1 warning (0.00 sec)

mysql> # Q-6. Write an SQL query to print the FIRST\_NAME from the Worker table after removing whie spaces from the right side.

mysql> select RTRIM(FIRST\_NAME) from Worker;

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

| RTRIM(FIRST\_NAME) |

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

| Monika |

| Niharika |

| Vishal |

| Amitabh |

| Vivek |

| Vipul |

| Satish |

| Geetika |

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

8 rows in set (0.00 sec)

mysql> # Q.7- Write an SQL query to print the DEPARTMENT from the Worker table after removing white spaces from the left side.

mysql> Select LTRIM(DEPARTMENT) from Worker;

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

| LTRIM(DEPARTMENT) |

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

| HR |

| Admin |

| HR |

| Admin |

| Admin |

| Account |

| Account |

| Admin |

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

8 rows in set (0.02 sec)

mysql> # Q.8- Write an SQL query that getches the unique values of DEPARTMENT from the worker table and Prints its length.

mysql> Select distinct length(DEPARTMENT) from Worker;

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

| length(DEPARTMENT) |

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

| 2 |

| 5 |

| 7 |

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

3 rows in set (0.00 sec)

mysql> Select length(DEPARTMENT) from Worker;

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

| length(DEPARTMENT) |

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

| 2 |

| 5 |

| 2 |

| 5 |

| 5 |

| 7 |

| 7 |

| 5 |

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

8 rows in set (0.00 sec)