PRACTICAL:-2

Enter password: ********

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

Your MySQL connection id is 14

Server version: 9.2.0 MySQL Community Server - GPL

Copyright (c) 2000, 2025, Oracle and/or its affiliates.

Oracle is a registered trademark of Oracle Corporation and/or its

affiliates. Other names may be trademarks of their respective

owners.

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

```
mysql> use bank;
Database changed
mysql> CREATE TABLE customer
    -> (
    ->  customer_id INT NOT NULL,
    ->  name VARCHAR(10) NOT NULL,
    ->  address VARCHAR(50) NOT NULL,
    ->  contactno INT NOT NULL,
    ->  email_id VARCHAR(50) NOT NULL,
    ->  PRIMARY KEY (customer_id)
    -> );
Query OK, 0 rows affected (0.03 sec)
```

```
mysql>

mysql> CREATE TABLE transaction

    -> (

    ->  transaction_id INT NOT NULL,

    ->  transaction_type VARCHAR(10) NOT NULL,

    ->  transaction_date DATE NOT NULL,

    ->  transaction_time FLOAT NOT NULL,

    ->  PRIMARY KEY (transaction_id)

    -> );

Query OK, 0 rows affected (0.02 sec)


mysql>

mysql> CREATE TABLE employee

    -> (

    ->  name INT NOT NULL,

    ->  id INT NOT NULL,

    ->  branch VARCHAR(50) NOT NULL,

    ->  transaction_id INT NOT NULL,

    ->  customer_id INT NOT NULL,

    ->  PRIMARY KEY (id),

    ->  FOREIGN KEY (transaction_id) REFERENCES transaction(transaction_id),

    ->  FOREIGN KEY (customer_id) REFERENCES customer(customer_id)

    -> );

Query OK, 0 rows affected (0.06 sec)


mysql>

mysql> CREATE TABLE account
```

```
    -> (

    ->  account_no INT NOT NULL,

    ->  account_type INT NOT NULL,

    ->  balance FLOAT NOT NULL,

    ->  account_id INT NOT NULL,

    ->  customer_id INT NOT NULL,

    ->  transaction_id INT NOT NULL,

    ->  PRIMARY KEY (account_no),

    ->  FOREIGN KEY (customer_id) REFERENCES customer(customer_id),

    ->  FOREIGN KEY (transaction_id) REFERENCES transaction(transaction_id)

    -> );

Query OK, 0 rows affected (0.05 sec)


mysql> show tables;

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

| Tables_in_bank |

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

| account        |

| customer       |

| employee       |

| transaction    |

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

4 rows in set (0.00 sec)


mysql> desc account;

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

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

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

```
| account_no    | int   | NO  | PRI | NULL |   |
| account_type  | int   | NO  |     | NULL |   |
| balance       | float | NO  |     | NULL |   |
| account_id    | int   | NO  |     | NULL |   |
| customer_id   | int   | NO  | MUL | NULL |   |
| transaction_id| int   | NO  | MUL | NULL |   |
+---------------+-------+------+-----+---------+-------+
6 rows in set (0.01 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    |       |
+-------------+-------------+------+-----+---------+-------+
5 rows in set (0.00 sec)
```

mysql> desc employee;

```
+----------------+-------------+------+-----+---------+-------+
| Field          | Type        | Null | Key | Default | Extra |
+----------------+-------------+------+-----+---------+-------+
| name           | int         | NO   |     | NULL    |       |
| id             | int         | NO   | PRI | NULL    |       |
| branch         | varchar(50) | NO   |     | NULL    |       |
```

```
| transaction_id | int       | NO  | MUL | NULL   |       |
| customer_id    | int       | NO  | MUL | NULL   |       |
+----------------+-------------+------+-----+---------+-------+
5 rows in set (0.00 sec)


mysql> desc transaction;
+------------------+-------------+------+-----+---------+-------+
| Field            | Type        | Null | Key | Default | Extra |
+------------------+-------------+------+-----+---------+-------+
| transaction_id   | int         | NO   | PRI | NULL    |       |
| transaction_type | varchar(10) | NO   |     | NULL    |       |
| transaction_date | date        | NO   |     | NULL    |       |
| transaction_time | float       | NO   |     | NULL    |       |
+------------------+-------------+------+-----+---------+-------+
4 rows in set (0.00 sec)


mysql> create user 'amita'@localhost identified by 'amita';
Query OK, 0 rows affected (0.01 sec)


mysql> grant select on bank.account to 'amita'@localhost;
Query OK, 0 rows affected (0.01 sec)


mysql> create user 'managerr'@localhost identified by 'managerr';
Query OK, 0 rows affected (0.01 sec)


mysql> grant all privileges on bank.* to 'managerr'@localhost;
Query OK, 0 rows affected (0.01 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    |       |
+-------------+-------------+------+-----+---------+-------+
5 rows in set (0.00 sec)


mysql> alter table customer add email varchar(20);
Query OK, 0 rows affected (0.06 sec)
Records: 0  Duplicates: 0  Warnings: 0


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    |       |
| email       | varchar(20) | YES  |     | NULL    |       |
+-------------+-------------+------+-----+---------+-------+
6 rows in set (0.00 sec)
```