

# Practical 2

Enter password: \*\*\*\*\*

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

Your MySQL connection id is 10

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> create database bank;
```

Query OK, 1 row affected (0.02 sec)

```
mysql> use bank;
```

Database changed

```
mysql> CREATE TABLE customer
```

```
-> (
```

```
->  customer_id INT NOT NULL,
```

```
->  name INT NOT NULL,
```

```
->  address INT NOT NULL,
```

```
->  contactno INT NOT NULL,
```

```
->  email_id INT NOT NULL,
```

```
->  PRIMARY KEY (customer_id)
```

-> );

Query OK, 0 rows affected (0.05 sec)

mysql>

mysql> CREATE TABLE transaction

-> (

-> transaction\_id INT NOT NULL,

-> transaction\_type INT NOT NULL,

-> transaction\_date INT NOT NULL,

-> transaction\_time INT 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 INT NOT NULL,

-> transaction\_id INT NOT NULL,

-> customer\_id INT NOT NULL,

-> PRIMARY KEY (name),

-> FOREIGN KEY (transaction\_id) REFERENCES transaction(transaction\_id),

-> FOREIGN KEY (customer\_id) REFERENCES customer(customer\_id)

-> );

Query OK, 0 rows affected (0.07 sec)

```
mysql>
```

```
mysql> CREATE TABLE account
```

```
-> (
```

```
-> account_no INT NOT NULL,
```

```
-> account_type INT NOT NULL,
```

```
-> balance INT 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 (0.02 sec)
```

```
mysql> desc account;
```

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

Field	Type	Null	Key	Default	Extra
account_no	int	NO	PRI	NULL	
account_type	int	NO		NULL	
balance	int	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	int	NO		NULL	
address	int	NO		NULL	
contactno	int	NO		NULL	
email_id	int	NO		NULL	

5 rows in set (0.00 sec)

```
mysql> desc employee;
```

Field	Type	Null	Key	Default	Extra
name	int	NO	PRI	NULL	

id	branch	transaction_id	customer_id
1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5

5 rows in set (0.00 sec)

```
mysql> desc transaction;
```

Field	Type	Null	Key	Default	Extra
transaction_id	int	NO	PRI	NULL	
transaction_type	int	NO		NULL	
transaction_date	int	NO		NULL	
transaction_time	int	NO		NULL	

4 rows in set (0.00 sec)

```
mysql> create user 'amit'@localhost identified by 'amit';
```

Query OK, 0 rows affected (0.04 sec)

```
mysql> grant select on bank.account to 'amit'@localhost;
```

Query OK, 0 rows affected (0.00 sec)

```
mysql> create user 'manager'@localhost identified by 'manager';
```

Query OK, 0 rows affected (0.01 sec)

```
mysql> grant all privileges on bank.* to 'manager'@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	int	NO		NULL	
address	int	NO		NULL	
contactno	int	NO		NULL	
email_id	int	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	int	NO		NULL	
address	int	NO		NULL	
contactno	int	NO		NULL	
email_id	int	NO		NULL	
email	varchar(20)	YES		NULL	

--	--	--	--	--	--	--

6 rows in set (0.00 sec)