

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 (0.07 sec)

```
mysql> use bank;
```

Database changed

```
mysql> show tables;
```

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

```
| Tables_in_bank |
```

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

```
| account      |
```

```
| customer     |
```

```
| employee     |
```

```
| transaction  |
```

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

4 rows in set (0.02 sec)

```
mysql> create view create_view select * from customer;
```

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 'select * from customer' at line 1

```
mysql> create view customer_view as select * from customer;
```

Query OK, 0 rows affected (0.05 sec)

```
mysql> show tables;
```

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

```
| Tables_in_bank |
```

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

```
| account      |
```

```
| customer     |
```

```
| customer_view |
```

| employee |

| transaction |

+-----+

5 rows in set (0.00 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 (0.01 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       | 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 (0.00 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> select * from customer;
```

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

```
| 345 | anita | pune | 78946789 | anita23@gmail.com |
| 355 | ajay | mumbai | 9876543 | ajay23@gmail.com |
| 356 | aman | bengaluru | 9876783 | aman90@gmail.com |
| 358 | sunita | thane | 7654893 | sunita23@gmail.com |
```

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

4 rows in set (0.02 sec)

```
mysql> select * from account;
```

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

```
| account_no | account_type | balance | account_id | customer_id | transaction_id |
```

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

```
| 111 | savings | 60000 | 456 | 345 | 789 |
```

```
| 56789 | savings | 30000 | 5678 | 345 | 789 |
```

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

2 rows in set (0.02 sec)

```
mysql> select c.name, a.account_no,a.balance from customer c join account on
c.customerID where a.balance >=0;
```

ERROR 1054 (42S22): Unknown column 'a.account_no' in 'field list'

```
mysql> SELECT c.Name, a.Account_no, a.Balance FROM Customer c JOIN Account a
ON c.CustomerID = a.CustomerID WHERE a.Balance >= 0;
```

ERROR 1054 (42S22): Unknown column 'c.CustomerID' in 'on clause'

```
mysql> SELECT c.Name, a.Account_no, a.Balance FROM Customer c JOIN Account a
ON c.CustomerID = a.Customer_ID WHERE a.Balance >= 0;
```

ERROR 1054 (42S22): Unknown column 'c.CustomerID' in 'on clause'

```
mysql> SELECT c.Name, a.Account_no, a.Balance FROM Customer c JOIN Account a
ON c.CustomerID = a.Customer_id WHERE a.Balance >= 0;
```

ERROR 1054 (42S22): Unknown column 'c.CustomerID' in 'on clause'

```
mysql> SELECT c.Name, a.Account_no, a.Balance FROM Customer c JOIN Account a
ON c.Customer_id = a.Customer_id WHERE a.Balance >= 0;
```

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

```
| Name | Account_no | Balance |
```

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

```
| anita | 111 | 60000 |
```

```
| anita | 56789 | 30000 |
```

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

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

```
mysql> select * from customer_view;
```

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

```
| customer_id | name | address | contactno | email_id |
```

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

```
| 345 | anita | pune | 78946789 | anita23@gmail.com |
```

```
| 355 | ajay | mumbai | 9876543 | ajay23@gmail.com |
```

```
| 356 | aman | bengaluru | 9876783 | aman90@gmail.com |
```

```
| 358 | sunita | thane | 7654893 | sunita23@gmail.com |
```

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

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

```
mysql> create index index1 on transaction(transaction_date);
```

```
Query OK, 0 rows affected (0.09 sec)
```

```
Records: 0 Duplicates: 0 Warnings: 0
```

```
mysql> show indexes from transaction;
```

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

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

Table	Non_unique	Key_name	Seq_in_index	Column_name	Collation	Cardinality	Sub_part	Packed	Null	Index_type	Comment	Index_comment	Visible	Expression
-------	------------	----------	--------------	-------------	-----------	-------------	----------	--------	------	------------	---------	---------------	---------	------------

transaction	0	PRIMARY	1	transaction_id	A	0			NULL	NULL				
BTREE		YES	NULL											

transaction	1	index1	1	transaction_date	A	0			NULL	NULL				
BTREE		YES	NULL											

transaction	1	index1	1	transaction_date	A	0			NULL	NULL				
BTREE		YES	NULL											

transaction	1	index1	1	transaction_date	A	0			NULL	NULL				
BTREE		YES	NULL											

2 rows in set (0.01 sec)

mysql> select name from customer where name like 'd%';

Empty set (0.00 sec)

mysql> select Name from customer where Name like 'S%';

Name

sunita

sunita

sunita

sunita

1 row in set (0.00 sec)

mysql> select Name from customer where Name like 'a%';

Name

anita

anita

anita

anita

```
| aman |
```

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

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

```
mysql> select Balance from account where Balance between 400 and 100000;
```

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

```
| Balance |
```

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

```
| 60000 |
```

```
| 30000 |
```

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

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