

- Show all tables in the database.

## SHOW tables

MySQL Workbench

studentweb2 (class-2017-9-1...

Query 1

```
SHOW tables
```

Result Grid

Tables_in_class-2017-9-17-610-557-01_mct129
accounts
branches
customers
departments
employees
products
transactions

Result 6

Output

#	Time	Action	Message	Duration / Fetch
75	20:24:53	SELECT * LIMIT 0, 1000	Error Code: 1096. No tables used	0.000 sec
76	20:25:22	SHOW *tables	Error Code: 1064. You have an error in your SQL syntax; check the manual that corresponds to your MySQL se...	0.000 sec
77	20:25:52	SELECT * FROM tables LIMIT 0, 1000	Error Code: 1146. Table 'class-2017-9-17-610-557-01_mct129.tables' doesn't exist	0.000 sec
78	20:27:38	SELECT * FROM accounts, branches, customers, departments, employees, products, transactions LIMIT 0, 10...	1000 row(s) returned	0.188 sec / 0.906 sec
79	20:30:07	SELECT cust_id, address, zipcode FROM customers LIMIT 0, 1000	13 row(s) returned	0.000 sec / 0.000 sec
80	20:32:20	SHOW tables	7 row(s) returned	0.000 sec / 0.000 sec

Query Completed

- List customer id, address and zipcode from customers.

## SELECT cust\_id, address, zipcode FROM customers;

MySQL Workbench

studentweb2 (class-2017-9-1...

Query 1

```
SELECT cust_id, address, zipcode FROM customers;
```

Result Grid

cust_id	address	zipcode
1	4 Main Street	01904
2	5 Park Ave	01801
3	12 Lake Ave	02169
4	8 School Lane	02451
5	7 Main Street	03073
6	22 School Lane	02451
7	51 Onder Dr	01867

customers 5

Output

#	Time	Action	Message	Duration / Fetch
74	20:24:41	SHOW *	Error Code: 1064. You have an error in your SQL syntax; check the manual that corresponds to your MySQL se...	0.000 sec
75	20:24:53	SELECT * LIMIT 0, 1000	Error Code: 1096. No tables used	0.000 sec
76	20:25:22	SHOW *tables	Error Code: 1064. You have an error in your SQL syntax; check the manual that corresponds to your MySQL se...	0.000 sec
77	20:25:52	SELECT * FROM tables LIMIT 0, 1000	Error Code: 1146. Table 'class-2017-9-17-610-557-01_mct129.tables' doesn't exist	0.000 sec
78	20:27:38	SELECT * FROM accounts, branches, customers, departments, employees, products, transactions LIMIT 0, 10...	1000 row(s) returned	0.188 sec / 0.906 sec
79	20:30:07	SELECT cust_id, address, zipcode FROM customers LIMIT 0, 1000	13 row(s) returned	0.000 sec / 0.000 sec

Query Completed

- List customer id, address, and zipcode for customers from NH.

`SELECT cust_id, address, zipcode FROM customers WHERE state = 'NH';`

The screenshot shows the MySQL Workbench interface. The query editor contains the SQL statement: `SELECT cust_id, address, zipcode FROM customers WHERE state = 'NH';`. The query has been executed successfully, and the results are displayed in the 'Result Grid' tab. The results show four rows of customer data from New Hampshire.

#	cust_id	address	zipcode
5	7	Main Street	03073
8	10	Main Street	03073
10	15	Main Street	03073
12	17	Main Street	03073

The 'Action Output' tab shows the execution log with the following entries:

#	Time	Action	Message	Duration / Fetch
90	20:38:45	SELECT * FROM customers LIMIT 0, 1000	13 row(s) returned	0.000 sec / 0.000 sec
91	20:38:57	SELECT cust_id, address, zipcode FROM customers WHERE state='NH' LIMIT 0, 1000	Error Code: 1054. Unknown column 'NH' in 'where clause'	0.000 sec
92	20:39:11	SELECT cust_id, address, zipcode FROM customers WHERE state IN ('NH') LIMIT 0, 1000	Error Code: 1054. Unknown column 'NH' in 'where clause'	0.063 sec
93	20:39:18	SELECT cust_id, address, zipcode FROM customers WHERE state IN NH	Error Code: 1064. You have an error in your SQL syntax; check the manual that corresponds to your MySQL se...	0.093 sec
94	20:44:58	SELECT cust_id, address, zipcode FROM customers WHERE branch_id='NH' LIMIT 0, 1000	Error Code: 1054. Unknown column 'branch_id' in 'where clause'	0.000 sec
95	20:47:33	SELECT cust_id, address, zipcode FROM customers WHERE state = 'NH' LIMIT 0, 1000	4 row(s) returned	0.015 sec / 0.000 sec

- List all transactions that took place on '2010-02-25'.

`SELECT * FROM transactions WHERE txn_date = '2010-02-25'`

The screenshot shows the MySQL Workbench interface. The query editor contains the SQL statement: `SELECT * FROM transactions WHERE txn_date = '2010-02-25';`. The query has been executed successfully, and the results are displayed in the 'Result Grid' tab. The results show four rows of transaction data for the date 2010-02-25.

#	txn_id	txn_date	account_id	txn_type_cd	amount
5	6	2010-02-25	1	debit	50.00
6	7	2010-02-25	3	debit	25.00
7	8	2010-02-25	2	credit	125.37

The 'Action Output' tab shows the execution log with the following entries:

#	Time	Action	Message	Duration / Fetch
98	20:49:43	SHOW transactions WHERE txn_date = '2010-02-25'	Error Code: 1064. You have an error in your SQL syntax; check the manual that corresponds to your MySQL se...	0.078 sec
99	20:50:17	SELECT * FROM transactions WHERE txn_date = '2010-02-25'	Error Code: 1064. You have an error in your SQL syntax; check the manual that corresponds to your MySQL se...	0.015 sec
100	20:50:23	SELECT * FROM transactions WHERE txn_date = '2010-02-25'	Error Code: 1064. You have an error in your SQL syntax; check the manual that corresponds to your MySQL se...	0.000 sec
101	20:51:03	SELECT * FROM 'class-2017-9-17-610-557-01_mct129' employees LIMIT 0, 1000	10 row(s) returned	0.000 sec / 0.000 sec
102	20:51:17	SELECT * FROM 'class-2017-9-17-610-557-01_mct129' transactions LIMIT 0, 1000	9 row(s) returned	0.000 sec / 0.000 sec
103	20:51:38	SELECT * FROM transactions WHERE txn_date = '2010-02-25' LIMIT 0, 1000	3 row(s) returned	0.016 sec / 0.000 sec

- List account id, transaction type, and amount for all transactions that did not take place on '2010-02-24' or on '2010-02-25'.

SELECT \* FROM transactions WHERE !(txn\_date = '2010-02-25' OR txn\_date = '2010-02-24')

The screenshot shows the MySQL Workbench interface. The query editor contains the following SQL statement:

```
SELECT * FROM transactions WHERE !(txn_date = '2010-02-25' OR txn_date = '2010-02-24')
```

The result grid displays the following data:

txn_id	txn_date	account_id	txn_type_cd	amount
1	2010-02-22	1	credit	1000.00
2	2010-02-23	2	credit	\$25.75
8	2010-02-26	3	debit	10.00
9	2010-02-27	1	credit	75.00

The output pane shows the following error messages:

```

105 20:53:39 SELECT account_id,txn_type_cd,amount FROM transactions WHERE txn_date NOT '2010-02-24' OR '2010-02-25' Error Code: 1064. You have an error in your SQL syntax; check the manual that corresponds to your MySQL se... 0.003 sec
106 20:55:57 SELECT account_id,txn_type_cd,amount FROM transactions WHERE (txn_date NOT '2010-02-24' OR '2010-02-25') AND (txn_date = '2010-02-24' OR '2010-02-25') Error Code: 1064. You have an error in your SQL syntax; check the manual that corresponds to your MySQL se... 0.000 sec
107 20:56:18 SELECT account_id,txn_type_cd,amount FROM transactions WHERE (txn_date NOT '2010-02-24' AND '2010-02-25') AND (txn_date = '2010-02-24' OR '2010-02-25') Error Code: 1064. You have an error in your SQL syntax; check the manual that corresponds to your MySQL se... 0.000 sec
108 20:57:40 SELECT account_id,txn_type_cd,amount FROM transactions WHERE NOT(txn_date = '2010-02-24' OR '2010-02-25') 0 row(s) returned 0.000 sec / 0.000 sec
109 20:59:23 SELECT * FROM transactions WHERE txn_date = '2010-02-25' OR txn_date = '2010-02-24' LIMIT 0, 1000 5 row(s) returned 0.000 sec / 0.000 sec
110 20:59:41 SELECT * FROM transactions WHERE (txn_date = '2010-02-25' OR txn_date = '2010-02-24') LIMIT 0, 1000 4 row(s) returned 0.015 sec / 0.000 sec

```