

```
Maryams-MacBook-Pro:~ maryamtaherzadeh$ mysql -u root -p
Enter password:
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 9
Server version: 8.0.17 Homebrew
```

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

```
mysql> create table branch (branch_name varchar(12),branch_city
varchar(12),assets real);
ERROR 1046 (3D000): No database selected
mysql> use database database_maryam;
ERROR 1049 (42000): Unknown database 'database'
mysql> use database_maryam;
ERROR 1049 (42000): Unknown database 'database_maryam'
mysql> show database;
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 'database' at line 1
mysql> create database maryam;
Query OK, 1 row affected (0.00 sec)
```

```
mysql> use maryam;
Database changed
mysql> create table branch (branch_name varchar(12),branch_city
varchar(12),assets real);
Query OK, 0 rows affected (0.02 sec)
```

```
mysql> insert into branch values('Pownal','Bennington',400000);
Query OK, 1 row affected (0.02 sec)
```

```
mysql> insert into branch values('Brighton','Brooklyn',7000000);
Query OK, 1 row affected (0.00 sec)
```

```
mysql> insert into branch values('DownTown','Brooklyn',900000);
Query OK, 1 row affected (0.00 sec)
```

```
mysql> insert into branch values('Round Hill','Horseneck',8000000);
Query OK, 1 row affected (0.01 sec)
```

```
mysql> insert into branch values('Perryridge','Horseneck',1700000);
```

Query OK, 1 row affected (0.00 sec)

```
mysql> insert into branch values('Mianus','Horseneck',400000);
Query OK, 1 row affected (0.00 sec)
```

```
mysql> insert into branch values('RedWood','Palo Alto',2100000);
Query OK, 1 row affected (0.00 sec)
```

```
mysql> select * from branch;
```

branch_name	branch_city	assets
Pownal	Bennington	400000
Brighton	Brooklyn	7000000
DownTown	Brooklyn	900000
Round Hill	Horseneck	8000000
Perryridge	Horseneck	1700000
Mianus	Horseneck	400000
RedWood	Palo Alto	2100000

7 rows in set (0.00 sec)

```
mysql> create table account_tb1( account_number varchar(20), balance
real, branch_name varchar(30), branch_city varchar(30));
Query OK, 0 rows affected (0.01 sec)
```

```
mysql> insert into account_tb1 values('A-102',400,'Pownal',
Bennington);
ERROR 1054 (42S22): Unknown column 'Bennington' in 'field list'
mysql> insert into account_tb1 values('A-102',400,'Pownal',
'Bennington');
Query OK, 1 row affected (0.00 sec)
```

```
mysql> select * from accout_tb1;
ERROR 1146 (42S02): Table 'maryam.accout_tb1' doesn't exist
mysql> select * from account_tb1;
```

account_number	balance	branch_name	branch_city
A-102	400	Pownal	Bennington

1 row in set (0.00 sec)

```
mysql> insert into account_tb1 values('A-101',500,'Round Hill', 'Palo
Alto');
Query OK, 1 row affected (0.00 sec)
```

```
mysql> select * from account_tb1;
```

account_number	balance	branch_name	branch_city
----------------	---------	-------------	-------------

account_number	balance	branch_name	branch_city
A-102	400	Pownal	Bennington
A-101	500	Round Hill	Palo Alto

2 rows in set (0.00 sec)

```
mysql> insert into account_tb1 values('A-444',625,'Brighton',
'Brooklyn');
Query OK, 1 row affected (0.00 sec)
```

```
mysql> insert into account_tb1 values('A-305',350,'DownTown',
'Horsenck');
Query OK, 1 row affected (0.00 sec)
```

```
mysql> select * from account_tb1;
```

account_number	balance	branch_name	branch_city
A-102	400	Pownal	Bennington
A-101	500	Round Hill	Palo Alto
A-444	625	Brighton	Brooklyn
A-305	350	DownTown	Horsenck

4 rows in set (0.00 sec)

```
mysql> select * from account_tb1 where (branch_name) IN (select
branch_name from branch group by branch_name);
```

ERROR 1146 (42S02): Table 'maryam.account\_tb1' doesn't exist

```
mysql> select * from account_tb1 where (branch_name) IN (select
branch_name from branch group by branch_name);
```

ERROR 1146 (42S02): Table 'maryam.account\_tb1' doesn't exist

```
mysql> insert into account_tb1 values('A-305',350,'DownTown',
'Horsenck')
```

```
-> ;
```

Query OK, 1 row affected (0.01 sec)

```
mysql> select * from account_tb1;
```

account_number	balance	branch_name	branch_city
A-102	400	Pownal	Bennington
A-101	500	Round Hill	Palo Alto
A-444	625	Brighton	Brooklyn
A-305	350	DownTown	Horsenck
A-305	350	DownTown	Horsenck

5 rows in set (0.00 sec)

```
mysql> delete from account_tb1 where 'account_number=('A-305');
    > ;
    >
```

^C

```
mysql> select * from account_tb1;
```

account_number	balance	branch_name	branch_city
A-102	400	Pownal	Bennington
A-101	500	Round Hill	Palo Alto
A-444	625	Brighton	Brooklyn
A-305	350	DownTown	Horsenck
A-305	350	DownTown	Horsenck

5 rows in set (0.00 sec)

```
mysql> select a.account_number, b.account_id, b.branch_name
```

```
->
```

```
-> ;
```

ERROR 1109 (42S02): Unknown table 'a' in field list

```
mysql> select * from account_tbl where (branch_name) IN (select
branch_nam from branch group by branch_name);
```

ERROR 1146 (42S02): Table 'maryam.account\_tbl' doesn't exist

```
mysql> select * from account_tb1 where (branch_name) IN (select
branch_name from branch group by branch_name);
```

account_number	balance	branch_name	branch_city
A-102	400	Pownal	Bennington
A-101	500	Round Hill	Palo Alto
A-444	625	Brighton	Brooklyn
A-305	350	DownTown	Horsenck
A-305	350	DownTown	Horsenck

5 rows in set (0.00 sec)

```
mysql> select * from account_tbl where (branch_name) NOT IN (select
branch_name from branch group by branch_name);
```

ERROR 1146 (42S02): Table 'maryam.account\_tbl' doesn't exist

```
mysql> select * from account_tb1 where (branch_name) NOT IN (select
branch_name from branch group by branch_name);
```

Empty set (0.01 sec)

```
mysql> select distinct branch_city from branch b
```

```
-> where not exists (
```

```
-> select * from account_tbl a
```

```
-> ;
```

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 3

```
mysql> select distinct branch_city from branch b
-> where not exists (
-> select * from account_tb1 a
-> where a.branch_city= b.branch_city);
```

branch_city
Horseneck

1 row in set (0.00 sec)

```
mysql> select distinct branch_city from branch b where exists ( select
-> * from account_tb1 a where a.branch_city = b.branch_city);
```

branch_city
Bennington
Brooklyn
Palo Alto

3 rows in set (0.00 sec)

```
mysql> select branch_name from branch where assets > all ( select
assets from branch where branch_name = 'Brooklyn');
```

branch_name
Pownal
Brighton
DownTown
Round Hill
Perryridge
Mianus
RedWood

7 rows in set (0.00 sec)

```
mysql> alter table branch
-> add constraint UC_branch_city unique (branch_city);
```

ERROR 1062 (23000): Duplicate entry 'Brooklyn' for key 'UC\_branch\_city'

```
mysql> alter table branch add constraint UC_branch_city unique
(branch_name);
```

Query OK, 0 rows affected (0.02 sec)

Records: 0 Duplicates: 0 Warnings: 0

```
mysql> desc branch;
```

Field	Type	Null	Key	Default	Extra
branch_name	varchar(12)	YES	UNI	NULL	
branch_city	varchar(12)	YES		NULL	
assets	double	YES		NULL	

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

```
mysql> elect account_number, balance, branch_name, branch_city from
account_tb1 where balance = (select max(balance) from account_tb1);
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 'elect account_number, balance, branch_name,
branch_city from account_tb1 where b' at line 1
```

```
mysql> select account_number, balance, branch_name, branch_city from
account_tb1 where balance = (select max(balance) from account_tb1);
```

account_number	balance	branch_name	branch_city
A-444	625	Brighton	Brooklyn

```
1 row in set (0.01 sec)
```

```
mysql> select max(account_number) from account_tb1;
```

max(account_number)
A-444

```
1 row in set (0.00 sec)
```

```
mysql> select * from account_tb1;
```

account_number	balance	branch_name	branch_city
A-102	400	Pownal	Bennington
A-101	500	Round Hill	Palo Alto
A-444	625	Brighton	Brooklyn
A-305	350	DownTown	Horsenck
A-305	350	DownTown	Horsenck

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

```
mysql> select * from account_tb1 where branch_city in (select distinct
branch_city from branch);
```

account_number	balance	branch_name	branch_city
----------------	---------	-------------	-------------

A-102	400	Pownal	Bennington
A-101	500	Round Hill	Palo Alto
A-444	625	Brighton	Brooklyn

3 rows in set (0.00 sec)

```
mysql> select * from branch where branch_city in (select distinct
branch_city from account_tb1;
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> select * from branch where branch_city in (select distinct
branch_city from account_tb1);
```

branch_name	branch_city	assets
Pownal	Bennington	400000
Brighton	Brooklyn	7000000
DownTown	Brooklyn	900000
RedWood	Palo Alto	2100000

4 rows in set (0.00 sec)

```
mysql> select * from branch;
```

branch_name	branch_city	assets
Pownal	Bennington	400000
Brighton	Brooklyn	7000000
DownTown	Brooklyn	900000
Round Hill	Horseneck	8000000
Perryridge	Horseneck	1700000
Mianus	Horseneck	400000
RedWood	Palo Alto	2100000

7 rows in set (0.00 sec)

```
mysql> select a.account_number, b.branch_name
-> from account_tbl a inner join branch b
-> on a.account_number = b.branch_city;
```

ERROR 1146 (42S02): Table 'maryam.account\_tbl' doesn't exist

```
mysql> select a.account_number, b.branch_name from account_tb1 a inner
join branch b on a.account_number = b.branch_city;
Empty set (0.00 sec)
```

```
mysql> select a.account_number, b.branch_name from account_tb1 a inner
join branch b;
```

-----+

account_number	branch_name
A-102	Brighton
A-101	Brighton
A-444	Brighton
A-305	Brighton
A-305	Brighton
A-102	DownTown
A-101	DownTown
A-444	DownTown
A-305	DownTown
A-305	DownTown
A-102	Mianus
A-101	Mianus
A-444	Mianus
A-305	Mianus
A-305	Mianus
A-102	Perryridge
A-101	Perryridge
A-444	Perryridge
A-305	Perryridge
A-305	Perryridge
A-102	Pownal
A-101	Pownal
A-444	Pownal
A-305	Pownal
A-305	Pownal
A-102	RedWood
A-101	RedWood
A-444	RedWood
A-305	RedWood
A-305	RedWood
A-102	Round Hill
A-101	Round Hill
A-444	Round Hill
A-305	Round Hill
A-305	Round Hill

35 rows in set (0.00 sec)

```
mysql> select a.account_number, b.branch_name, b.branch_city from
account_tb1 a inne;
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 'inne' at line 1
mysql> alter table branch add account_id varchar(20));
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> alter table branch add account_id varchar(20);
Query OK, 0 rows affected (0.01 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

```
mysql> update branch set account_id = 'A-101';
Query OK, 7 rows affected (0.00 sec)
Rows matched: 7 Changed: 7 Warnings: 0
```

```
mysql> update branch set account_id = 'A-101'
    -> where branch_name = 'Pownal';
Query OK, 0 rows affected (0.00 sec)
Rows matched: 1 Changed: 0 Warnings: 0
```

```
mysql> update branch set account_id = 'A-102' where branch_name =
'Brighton';
Query OK, 1 row affected (0.00 sec)
Rows matched: 1 Changed: 1 Warnings: 0
```

```
mysql> update branch set account_id = 'A-444' where branch_name =
'Downtown';
Query OK, 1 row affected (0.00 sec)
Rows matched: 1 Changed: 1 Warnings: 0
```

```
mysql> update branch set account_id = 'A-305' where branch_name =
'Round Hill';
Query OK, 1 row affected (0.01 sec)
Rows matched: 1 Changed: 1 Warnings: 0
```

```
mysql> update branch set account_id = 'A-101' where branch_name =
'Perryridge';
Query OK, 0 rows affected (0.00 sec)
Rows matched: 1 Changed: 0 Warnings: 0
```

```
mysql> update branch set account_id = 'A-305' where branch_name =
'Mianus';
Query OK, 1 row affected (0.00 sec)
Rows matched: 1 Changed: 1 Warnings: 0
```

```
mysql> update branch set account_id = 'A-444' where branch_name =
'Redwood';
Query OK, 1 row affected (0.00 sec)
Rows matched: 1 Changed: 1 Warnings: 0
```

```
mysql> select a.account_number, b.account_id, b.branch_name
    -> from account_tbl a inner join branch b
    -> on a.account_number = b.account_id;
```

```
+-----+-----+-----+
| account_number | account_id | branch_name |
+-----+-----+-----+
```

A-101	A-101	Pownal
A-102	A-102	Brighton
A-444	A-444	DownTown
A-305	A-305	Round Hill
A-305	A-305	Round Hill
A-101	A-101	Perryridge
A-305	A-305	Mianus
A-305	A-305	Mianus
A-444	A-444	RedWood

9 rows in set (0.00 sec)

```
mysql> on a.account_number, select a.account_number, b.account_id,
b.branch_name
```

```
-> from account_tb1 a left outer join branch b
```

```
-> on a.account_number = b.account_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 'on a.account\_number, select a.account\_number, b.account\_id, b.branch\_name from ' at line 1

```
mysql> on a.account_number = b.account_id, b.branch_name
```

```
-> from account_tb1 a left outer join branch b
```

```
-> on a.account_number = b.account_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 'on a.account\_number = b.account\_id, b.branch\_name from account\_tb1 a left outer ' at line 1

```
mysql> select a.account_number, b.account_id, b.branch_name
```

```
-> from account_tb1 a left outer join branch b
```

```
-> on a.account_number = b.account_id;
```

account_number	account_id	branch_name
A-101	A-101	Pownal
A-102	A-102	Brighton
A-444	A-444	DownTown
A-305	A-305	Round Hill
A-305	A-305	Round Hill
A-101	A-101	Perryridge
A-305	A-305	Mianus
A-305	A-305	Mianus
A-444	A-444	RedWood

9 rows in set (0.00 sec)

```
mysql> select * from branch;
```

branch_name	branch_city	assets	account_id
-------------	-------------	--------	------------

Pownal	Bennington	400000	A-101
Brighton	Brooklyn	7000000	A-102
DownTown	Brooklyn	900000	A-444
Round Hill	Horseneck	8000000	A-305
Perryridge	Horseneck	1700000	A-101
Mianus	Horseneck	400000	A-305
RedWood	Palo Alto	2100000	A-444

7 rows in set (0.00 sec)

```
mysql> select * from account_tb1;
```

account_number	balance	branch_name	branch_city
A-102	400	Pownal	Bennington
A-101	500	Round Hill	Palo Alto
A-444	625	Brighton	Brooklyn
A-305	350	DownTown	Horsenck
A-305	350	DownTown	Horsenck

5 rows in set (0.00 sec)

```
mysql> select account_number,balance,branch_name, from account where
account_number=(select max(balance) from account_tab1);
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 'from account where account_number=(select
max(balance) from account_tab1)' at line 1
mysql> select account_number,balance,branch_name, from account where
account_number=(select max(balance) from account_tab1);
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 'from account where account_number=(select
max(balance) from account_tab1)' at line 1
mysql> select account_number, balance, branch_name, branch_city from
-> account_tab1 where where balance = (select max(balance) from
account_tab1);
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 'where balance = (select max(balance) from
account_tab1)' at line 2
mysql> select account_number, balance, branch_name, branch_city from
account_tb1 where where balance = (select max(balance) from
account_tb1);
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 'where balance = (select max(balance) from
account_tb1)' at line 1
```

```
mysql> select account_number, balance, branch_name, branch_city from
account_tbl1 where balance = (select max(balance) from account_tbl1);
```

```
+-----+-----+-----+-----+
| account_number | balance | branch_name | branch_city |
+-----+-----+-----+-----+
| A-444          |      625 | Brighton    | Brooklyn    |
+-----+-----+-----+-----+
1 row in set (0.00 sec)
```

```
mysql> select a.account_number, b.account_id, b.branch_name from
account_tbl1 a left outer join branch b on a.account_number =
b.account_id;
```

```
+-----+-----+-----+
| account_number | account_id | branch_name |
+-----+-----+-----+
| A-101          | A-101      | Pownal      |
| A-102          | A-102      | Brighton    |
| A-444          | A-444      | DownTown    |
| A-305          | A-305      | Round Hill  |
| A-305          | A-305      | Round Hill  |
| A-101          | A-101      | Perryridge  |
| A-305          | A-305      | Mianus      |
| A-305          | A-305      | Mianus      |
| A-444          | A-444      | RedWood     |
+-----+-----+-----+
9 rows in set (0.00 sec)
```

```
mysql> select a.account_number, b.account_id, b.branch_name from
account_tbl1 a right outer join branch b on a.account_number =
b.account_id;
```

```
+-----+-----+-----+
| account_number | account_id | branch_name |
+-----+-----+-----+
| A-102          | A-102      | Brighton    |
| A-101          | A-101      | Pownal      |
| A-101          | A-101      | Perryridge  |
| A-444          | A-444      | DownTown    |
| A-444          | A-444      | RedWood     |
| A-305          | A-305      | Round Hill  |
| A-305          | A-305      | Mianus      |
| A-305          | A-305      | Round Hill  |
| A-305          | A-305      | Mianus      |
+-----+-----+-----+
9 rows in set (0.00 sec)
```

```
mysql> select a.account_number, b.branch_name
-> from account_tbl1 a inner join branch b
-> ;
```

```
ERROR 1146 (42S02): Table 'maryam.account_tbl1' doesn't exist
```

```
mysql> select a.account_number, b.branch_name from account_tbl a inner
join branch b;
```

account_number	branch_name
A-102	Brighton
A-101	Brighton
A-444	Brighton
A-305	Brighton
A-305	Brighton
A-102	DownTown
A-101	DownTown
A-444	DownTown
A-305	DownTown
A-305	DownTown
A-102	Mianus
A-101	Mianus
A-444	Mianus
A-305	Mianus
A-305	Mianus
A-102	Perryridge
A-101	Perryridge
A-444	Perryridge
A-305	Perryridge
A-305	Perryridge
A-102	Pownal
A-101	Pownal
A-444	Pownal
A-305	Pownal
A-305	Pownal
A-102	RedWood
A-101	RedWood
A-444	RedWood
A-305	RedWood
A-305	RedWood
A-102	Round Hill
A-101	Round Hill
A-444	Round Hill
A-305	Round Hill
A-305	Round Hill

35 rows in set (0.00 sec)

```
mysql> select a.account_number, b.branch_name from account_tbl a inner
join branch b on a.account_number = b.branch_city;
Empty set (0.00 sec)
```

```
mysql> select a.account_number, b.branch_name from account_tbl a inner
join branch b;
```

ERROR 1146 (42S02): Table 'maryam.account\_tbl' doesn't exist  
mysql> select a.account\_number, b.branch\_name from account\_tbl a inner  
join branch b;

account_number	branch_name
A-102	Brighton
A-101	Brighton
A-444	Brighton
A-305	Brighton
A-305	Brighton
A-102	DownTown
A-101	DownTown
A-444	DownTown
A-305	DownTown
A-305	DownTown
A-102	Mianus
A-101	Mianus
A-444	Mianus
A-305	Mianus
A-305	Mianus
A-102	Perryridge
A-101	Perryridge
A-444	Perryridge
A-305	Perryridge
A-305	Perryridge
A-102	Pownal
A-101	Pownal
A-444	Pownal
A-305	Pownal
A-305	Pownal
A-102	RedWood
A-101	RedWood
A-444	RedWood
A-305	RedWood
A-305	RedWood
A-102	Round Hill
A-101	Round Hill
A-444	Round Hill
A-305	Round Hill
A-305	Round Hill

35 rows in set (0.01 sec)

mysql> select b.account\_id,a.account\_number, b.branch\_name from  
account a right outer join in branch b on a.account\_number=  
b.account\_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 'join in branch b on a.account_number=
b.account_id' at line 1
mysql> select b.account_id, a.account_number, b.branch_name from
account_tab1 a right outer join in branch b on a.account_number=
b.account_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 'in branch b on a.account_number= b.account_id' at
line 1
mysql> select b.account_id, a.account_number, b.branch_name from
account_tab1 a right outer join in branch b on a.account_number=
b.account_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 'in branch b on a.account_number= b.account_id' at
line 1
mysql> select b.account_id, a.account_number, b.branch_name from
account_tab1 a right outer join branch b on a.account_number =
b.account_id;

```

account_number	account_id	branch_name
A-102	A-102	Brighton
A-101	A-101	Pownal
A-101	A-101	Perryridge
A-444	A-444	DownTown
A-444	A-444	RedWood
A-305	A-305	Round Hill
A-305	A-305	Mianus
A-305	A-305	Round Hill
A-305	A-305	Mianus

9 rows in set (0.00 sec)

```

mysql> select b.account_id, a.account_number, b.branch_name from
account_tab1 a right outer join branch b on a.account_number =
b.account_id;

```

account_id	account_number	branch_name
A-102	A-102	Brighton
A-101	A-101	Pownal

A-101	A-101	Perryridge
A-444	A-444	DownTown
A-444	A-444	RedWood
A-305	A-305	Round Hill
A-305	A-305	Mianus
A-305	A-305	Round Hill
A-305	A-305	Mianus

9 rows in set (0.00 sec)

```
mysql> select b.account_id, a.account_number, b.branch_name from
account_tb1 a right outer join branch b on a.account_number =
b.account_id;
```

account_id	account_number	branch_name
A-102	A-102	Brighton
A-101	A-101	Pownal
A-101	A-101	Perryridge
A-444	A-444	DownTown
A-444	A-444	RedWood
A-305	A-305	Round Hill
A-305	A-305	Mianus
A-305	A-305	Round Hill
A-305	A-305	Mianus

9 rows in set (0.00 sec)

```
mysql> select account_id from a left outer join account_tb1 a right
outer join branch b on a.account_number = b.account_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> select a.account_number, b.branch_name from account_tb1 a inner
join branch b on a.account_number = b.branch_city where
a.account_number is null;
Empty set (0.00 sec)
```

```
mysql> select a.account_number, b.account_id, b.branch_name from
account_tb1 a right outer join branch b on a.account_number =
b.account_id
-> where a.account_number is null;
Empty set (0.00 sec)
```

```
mysql> select a.account_number, b.account_id, b.branch_name from
account_tb1 a left outer join branch b on a.account_number =
b.account_id where a.account_number is null;
Empty set (0.00 sec)
```



```
mysql> select a.account_number, b.account_id, b.branch_name from
account_tb1 a right outer join branch b on a.account_number =
b.account_id where a.account_number is null;
Empty set (0.00 sec)
```

```
mysql> select a.account_number, b.branch_name from account_tb1 a inner
join branch b on a.account_number = b.branch_city;
Empty set (0.01 sec)
```

```
mysql> select a.account_number, b.account_id, b.branch_name from
account_tb1 a left outer join branch b on a.account_number =
b.account_id;
```

account_number	account_id	branch_name
A-101	A-101	Pownal
A-102	A-102	Brighton
A-444	A-444	DownTown
A-305	A-305	Round Hill
A-305	A-305	Round Hill
A-101	A-101	Perryridge
A-305	A-305	Mianus
A-305	A-305	Mianus
A-444	A-444	RedWood

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

```
mysql> alter table branch add SSN INT;
Query OK, 0 rows affected (0.12 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

```
mysql> select* from branch;
```

branch_name	branch_city	assets	account_id	SSN
Pownal	Bennington	400000	A-101	NULL
Brighton	Brooklyn	7000000	A-102	NULL
DownTown	Brooklyn	900000	A-444	NULL
Round Hill	Horseneck	8000000	A-305	NULL
Perryridge	Horseneck	1700000	A-101	NULL
Mianus	Horseneck	400000	A-305	NULL
RedWood	Palo Alto	2100000	A-444	NULL

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

```
mysql> update branch set SSN=123456 where account_id = 'A-101';
Query OK, 2 rows affected (0.01 sec)
Rows matched: 2 Changed: 2 Warnings: 0
```

```
mysql> update branch set SSN=123458 where account_id = 'A-102';
Query OK, 1 row affected (0.00 sec)
Rows matched: 1  Changed: 1  Warnings: 0
```

```
mysql> update branch set SSN=123451 where account_id = 'A-444';
Query OK, 2 rows affected (0.00 sec)
Rows matched: 2  Changed: 2  Warnings: 0
```

```
mysql> update branch set SSN=123450 where account_id = 'A-305';
Query OK, 2 rows affected (0.00 sec)
Rows matched: 2  Changed: 2  Warnings: 0
```

```
mysql> update branch set SSN=123459 where account_id = 'A-101';
Query OK, 2 rows affected (0.00 sec)
Rows matched: 2  Changed: 2  Warnings: 0
```

```
mysql> update branch set SSN=123454 where account_id = 'A-305';
Query OK, 2 rows affected (0.00 sec)
Rows matched: 2  Changed: 2  Warnings: 0
```

```
mysql> update branch set SSN=123451 where account_id = 'A-444';
Query OK, 0 rows affected (0.00 sec)
Rows matched: 2  Changed: 0  Warnings: 0
```

```
mysql> select * from branch;
```

branch_name	branch_city	assets	account_id	SSN
Pownal	Bennington	400000	A-101	123459
Brighton	Brooklyn	7000000	A-102	123458
DownTown	Brooklyn	900000	A-444	123451
Round Hill	Horseneck	8000000	A-305	123454
Perryridge	Horseneck	1700000	A-101	123459
Mianus	Horseneck	400000	A-305	123454
RedWood	Palo Alto	2100000	A-444	123451

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

```
mysql> select a.account_number, b.account_id, b.branch_name
-> from account_tbl a left outer join branch b
-> ;
```

```
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 2
```

```
mysql> select a.account_number, b.account_id, b.branch_name from
account_tbl a left outer join branch b
```

```
-> on a.account_number = b.account_id;
```

```
ERROR 1146 (42S02): Table 'maryam.account_tbl' doesn't exist
```

```
mysql> select a.account_number, b.account_id, b.branch_name from
account_tb1 a left outer join branch b on a.account_number =
b.account_id;
```

account_number	account_id	branch_name
A-101	A-101	Pownal
A-102	A-102	Brighton
A-444	A-444	DownTown
A-305	A-305	Round Hill
A-305	A-305	Round Hill
A-101	A-101	Perryridge
A-305	A-305	Mianus
A-305	A-305	Mianus
A-444	A-444	RedWood

9 rows in set (0.00 sec)

```
mysql> select b.account_id,a.account_number,b.branch_name from
account_tb1 a left outer join branch b on a.account_number =
b.account_id;
```

account_id	account_number	branch_name
A-101	A-101	Pownal
A-102	A-102	Brighton
A-444	A-444	DownTown
A-305	A-305	Round Hill
A-305	A-305	Round Hill
A-101	A-101	Perryridge
A-305	A-305	Mianus
A-305	A-305	Mianus
A-444	A-444	RedWood

9 rows in set (0.00 sec)

```
mysql> select b.account_id,a.account_number,b.branch_name from
account_tb1 a right outer join branch b on a.account_number =
b.account_id;
```

account_id	account_number	branch_name
A-102	A-102	Brighton
A-101	A-101	Pownal
A-101	A-101	Perryridge
A-444	A-444	DownTown
A-444	A-444	RedWood
A-305	A-305	Round Hill
A-305	A-305	Mianus

A-305	A-305	Round Hill
A-305	A-305	Mianus

9 rows in set (0.00 sec)

```
mysql> select a.account_number, b.branch_name from account_tab1 a
inner join branch b;
ERROR 1146 (42S02): Table 'maryam.account_tab1' doesn't exist
mysql> select a.account_number, b.branch_name from account_tb1 a inner
join branch b;
```

account_number	branch_name
A-102	Brighton
A-101	Brighton
A-444	Brighton
A-305	Brighton
A-305	Brighton
A-102	DownTown
A-101	DownTown
A-444	DownTown
A-305	DownTown
A-305	DownTown
A-102	Mianus
A-101	Mianus
A-444	Mianus
A-305	Mianus
A-305	Mianus
A-102	Perryridge
A-101	Perryridge
A-444	Perryridge
A-305	Perryridge
A-305	Perryridge
A-102	Pownal
A-101	Pownal
A-444	Pownal
A-305	Pownal
A-305	Pownal
A-102	RedWood
A-101	RedWood
A-444	RedWood
A-305	RedWood
A-305	RedWood
A-102	Round Hill
A-101	Round Hill
A-444	Round Hill
A-305	Round Hill
A-305	Round Hill

35 rows in set (0.00 sec)

```
mysql> alter table account_tb1 add SSN INT;
Query OK, 0 rows affected (0.01 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

```
mysql> update account_tb1 set SSN=123456 where account_id = 'A-101';
ERROR 1054 (42S22): Unknown column 'account_id' in 'where clause'
mysql> select * from account_tb1;
```

account_number	balance	branch_name	branch_city	SSN
A-102	400	Pownal	Bennington	NULL
A-101	500	Round Hill	Palo Alto	NULL
A-444	625	Brighton	Brooklyn	NULL
A-305	350	DownTown	Horsenck	NULL
A-305	350	DownTown	Horsenck	NULL

5 rows in set (0.00 sec)

```
mysql> update account_tb1 set SSN=123456 where account_number =
'A-102';
Query OK, 1 row affected (0.00 sec)
Rows matched: 1 Changed: 1 Warnings: 0
```

```
mysql> update account_tb1 set SSN=123459 where account_number =
'A-101';
Query OK, 1 row affected (0.01 sec)
Rows matched: 1 Changed: 1 Warnings: 0
```

```
mysql> update account_tb1 set SSN=123450 where account_number =
'A-444';
Query OK, 1 row affected (0.01 sec)
Rows matched: 1 Changed: 1 Warnings: 0
```

```
mysql> update account_tb1 set SSN=123455 where account_number =
'A-305;
'> update account_tb1 set SSN=123455 where account_number =
'A-305;;
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 'A-305' at line 2
ERROR:
No query specified
```

```
mysql> update account_tb1 set SSN=123455 where account_number =
'A-305;
'> update account_tb1 set SSN=123451 where account_number =
'A-305;
```

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 'A-305' at line 3

```
mysql> update account_tb1 set SSN=123452 where account_number = 'A-305;
```

```
'>
      '> ;
      '>
      '> ç
```

```
ç
^C
```

```
mysql> update account_tb1 set SSN=123452 where account_number = 'A-305;
```

```
'> ;
      '> ç
      '> ç
```

```
^C
```

```
mysql> select * from account_tb1;
```

account_number	balance	branch_name	branch_city	SSN
A-102	400	Pownal	Bennington	123456
A-101	500	Round Hill	Palo Alto	123459
A-444	625	Brighton	Brooklyn	123450
A-305	350	DownTown	Horsenck	NULL
A-305	350	DownTown	Horsenck	NULL

5 rows in set (0.00 sec)

```
mysql> update account_tb1 set SSN=123452 where account_number = 'A-305;
```

```
'> ;
      '>
```

```
^C
```

```
mysql> delete from account_tb1 where account_number='A-305';
Query OK, 2 rows affected (0.00 sec)
```

```
mysql> insert into account_tb1
(account_number,balance,branch_name,branch_city, SSN) values('A-305',
350,'DownTown','Horsenck',123451);
Query OK, 1 row affected (0.01 sec)
```

```
mysql> select * from account_tb1;
```

account_number	balance	branch_name	branch_city	SSN
A-102	400	Pownal	Bennington	123456

A-101	500	Round Hill	Palo Alto	123459
A-444	625	Brighton	Brooklyn	123450
A-305	350	DownTown	Horsenck	123451

4 rows in set (0.00 sec)

mysql> select \* from branch;

branch_name	branch_city	assets	account_id	SSN
Pownal	Bennington	400000	A-101	123459
Brighton	Brooklyn	7000000	A-102	123458
DownTown	Brooklyn	900000	A-444	123451
Round Hill	Horseneck	8000000	A-305	123454
Perryridge	Horseneck	1700000	A-101	123459
Mianus	Horseneck	400000	A-305	123454
RedWood	Palo Alto	2100000	A-444	123451

7 rows in set (0.00 sec)

mysql> alter table branch from drop column SSN;

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 'from drop column SSN' at line 1

mysql> alter table branch drop column SSN;

Query OK, 0 rows affected (0.22 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> select \* from branch;

branch_name	branch_city	assets	account_id
Pownal	Bennington	400000	A-101
Brighton	Brooklyn	7000000	A-102
DownTown	Brooklyn	900000	A-444
Round Hill	Horseneck	8000000	A-305
Perryridge	Horseneck	1700000	A-101
Mianus	Horseneck	400000	A-305
RedWood	Palo Alto	2100000	A-444

7 rows in set (0.00 sec)

mysql> select b.account\_id,a.account\_number,b.SSN from account\_tb1 a right outer join branch b on a.account\_number = b.account\_id;

ERROR 1054 (42S22): Unknown column 'b.SSN' in 'field list'

mysql> select b.account\_id,a.account\_number,b.branch\_name from account\_tb1 a right outer join branch b on a.account\_number = b.account\_id;

-----+

account_id	account_number	branch_name
A-102	A-102	Brighton
A-101	A-101	Pownal
A-101	A-101	Perryridge
A-444	A-444	DownTown
A-444	A-444	RedWood
A-305	A-305	Round Hill
A-305	A-305	Mianus

7 rows in set (0.00 sec)

```
mysql> select a.account_number,a.SSN,b.branch_name from account_tb1 a
right outer join branch b on a.account_number = b.account_id;
```

account_number	SSN	branch_name
A-102	123456	Brighton
A-101	123459	Pownal
A-101	123459	Perryridge
A-444	123450	DownTown
A-444	123450	RedWood
A-305	123451	Round Hill
A-305	123451	Mianus

7 rows in set (0.00 sec)

```
mysql> select a.account_number,a.SSN,b.branch_name from account_tb1 a
left outer join branch b on a.account_number = b.account_id;
```

account_number	SSN	branch_name
A-101	123459	Pownal
A-102	123456	Brighton
A-444	123450	DownTown
A-305	123451	Round Hill
A-101	123459	Perryridge
A-305	123451	Mianus
A-444	123450	RedWood

7 rows in set (0.00 sec)

```
mysql> select a.account_number,a.SSN,b.branch_name from account_tb1 a
left outer join branch b on a.branch_city = b.branch_city;
```

account_number	SSN	branch_name
A-102	123456	Pownal
A-444	123450	Brighton



A-444	123450	DownTown
A-101	123459	RedWood
A-305	123451	NULL

5 rows in set (0.00 sec)

```
mysql> select a.account_number, b.branch_name from account_tbl a inner
join branch b;
```

ERROR 1146 (42S02): Table 'maryam.account\_tbl' doesn't exist

```
mysql> select a.account_number, b.branch_name from account_tb1 a inner
join branch b;
```

account_number	branch_name
A-102	Brighton
A-101	Brighton
A-444	Brighton
A-305	Brighton
A-102	DownTown
A-101	DownTown
A-444	DownTown
A-305	DownTown
A-102	Mianus
A-101	Mianus
A-444	Mianus
A-305	Mianus
A-102	Perryridge
A-101	Perryridge
A-444	Perryridge
A-305	Perryridge
A-102	Pownal
A-101	Pownal
A-444	Pownal
A-305	Pownal
A-102	RedWood
A-101	RedWood
A-444	RedWood
A-305	RedWood
A-102	Round Hill
A-101	Round Hill
A-444	Round Hill
A-305	Round Hill

28 rows in set (0.00 sec)

```
mysql> select a.account_number,a.SSN,b.branch_name from account_tb1 a
right outer join branch b on a.branch_city = b.branch_city;
```

account_number	SSN	branch_name
----------------	-----	-------------

A-102	123456	Pownal
A-101	123459	RedWood
A-444	123450	Brighton
A-444	123450	DownTown
NULL	NULL	Round Hill
NULL	NULL	Perryridge
NULL	NULL	Mianus

7 rows in set (0.00 sec)

```
mysql> select a.SSN, b.branch_name from account_tb1 a inner join
branch b on a.SSN =b.branch_city;
Empty set, 28 warnings (0.00 sec)
```

```
mysql> select a.SSN, b.branch_name from account_tb1 a inner join
branch b on a.SSN =b.branch_name;
Empty set, 28 warnings (0.01 sec)
```

```
mysql> select a.SSN, b.branch_name from account_tb1 a inner join
branch b;
```

SSN	branch_name
123456	Brighton
123459	Brighton
123450	Brighton
123451	Brighton
123456	DownTown
123459	DownTown
123450	DownTown
123451	DownTown
123456	Mianus
123459	Mianus
123450	Mianus
123451	Mianus
123456	Perryridge
123459	Perryridge
123450	Perryridge
123451	Perryridge
123456	Pownal
123459	Pownal
123450	Pownal
123451	Pownal
123456	RedWood
123459	RedWood
123450	RedWood
123451	RedWood
123456	Round Hill

123459	Round Hill	
123450	Round Hill	
123451	Round Hill	

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

28 rows in set (0.00 sec)

mysql>