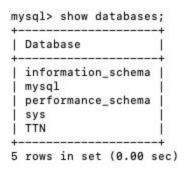
Debugs of mysql server for mac.

- https://gist.github.com/zubaer-ahammed/c81c9a0e37adc1cb9a6cdc61c4190f52
- https://stackoverflow.com/questions/6474775/setting-the-mysql-root-user-password-on-os-x
- https://stackoverflow.com/questions/7927854/start-mysql-server-from-command-line-on-mac-os-lion
- https://linuxize.com/post/how-to-check-mysgl-version/
- https://stackoverflow.com/questions/22009582/error-1064-42000-you-have-an-error-in-your-sql-syntax-check-the-manual-that/22009889
- https://www.tutorialspoint.com/resolve-usage-of-quotes-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
- https://dev.mysgl.com/doc/refman/8.0/en/resetting-permissions.html

Create Database

We can create databases using the (create database <databasename>) command.

```
mysql> create database TTN;
Query OK, 1 row affected (0.01 sec)
```



Create tables and show designed schema

Keeping in mind the future use of the whole database we have created 3 tables with the following schema.

1. Table for storing customer data

[mysql> use TTN
Database changed
mysql> create table cust_data(cust_id int auto_increment primary key, cust_name
[varchar(10), cust_contact int);
Query OK, 0 rows affected (0.01 sec)

mysql> desc cust_data;

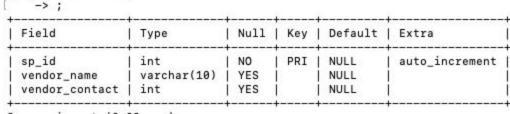
Field	Туре	Null	Key	Default	Extra
cust_id	int	NO	PRI	NULL	auto_increment
cust_name	varchar(10)	YES	600000	NULL	
cust_contact	int	YES	İ	NULL	İ

3 rows in set (0.00 sec)

2. Table for storing data for salesperson

mysql> create table salesperson(sp_id int auto_increment primary key, vendor_nam
[e varchar(10), vendor_contact int);
Query OK, 0 rows affected (0.01 sec)

[mysql> desc salesperson



3 rows in set (0.00 sec)

3. Table for storing the data for the orders

[mysql> create table order_info(order_id int auto_increment primary key, vendor_i]
d int, cust_id int);
Query OK, 0 rows affected (0.01 sec)

]

[mysql> desc order_info;

Field	Type	Null	Key	Default	Extra
order_id	int	NO NO	PRI	NULL	auto_increment
vendor_id	int	YES	i	NULL	
cust_id	int	YES	İ	NULL	ĺ

3 rows in set (0.00 sec)

Insert sample data

Inserting data in all of the tables

1. Customer data

```
mysql> insert into cust_data(cust_id, cust_name, cust_contact) values (101, 'Ale x', 01485131), (102, 'John', 01498352), (103, 'Nancy', 08493157), (104, 'Billy', 08795234), (105, 'Jane', 87492353); Query OK, 5 rows affected (0.01 sec) Records: 5 Duplicates: 0 Warnings: 0
```

1

[mysql> select * from cust_data;

cust_id	cust_name	cust_contact
101	Alex	1485131
102	John	1498352
103	Nancy	8493157
104	Billy	8795234
105	Jane	87492353
+	+	++

5 rows in set (0.00 sec)

2. Salesperson data

```
[mysql> insert into salesperson(sp_id, vendor_name, vendor_contact) values (1, 'A]
nnu', 01485131), (2, 'Anna', 01498352), (3, 'Amma', 08493157), (4, 'Appa', 08795
234), (5, 'Akka', 87492353);
Query OK, 5 rows affected (0.01 sec)
Records: 5 Duplicates: 0 Warnings: 0
```

[mysql> select * from salesperson;

sp_id	vendor_name	vendor_contact
1	Annu	1485131
2	Anna	1498352
3	Amma	8493157
4	Appa	8795234
5	Akka	87492353

3. Order data

```
mysql> insert into order_info(order_id, vendor_id, cust_id)
   -> values
   -> (589, 3, 101),
   -> (784, 1, 103),
   -> (121, 3, 104),
   -> (546, 4, 102),
   -> (580, 5, 105),
   -> (213, 2, 101);
Query OK, 6 rows affected (0.01 sec)
Records: 6 Duplicates: 0 Warnings: 0
[mysql> select * from order_info;
| order_id | vendor_id | cust_id |
       121 |
                   3 |
                            104 |
       213 |
                  2
                           101
                   4
       546
                           102
                   5 |
       580
                           105
                   3 |
       589
                            101
       784
                    1 |
                            103
6 rows in set (0.00 sec)
```

Find the sales person who has multiple orders.

For this task we first created a relation between the tables by binding their primary id's with a foreign key relationship.

Find the all sales person details along with order details There are 2 different ways to do it as follows: [mysql> select salesperson.sp_id, salesperson.vendor_name, salesperson.vendor_con]
tact, order_info.order_id from salesperson,order_info where order_info.vendor_id
=salesperson.sp_id;

sp_id	vendor_name	vendor_contact	order_id
1	Annu	1485131	784
2	Anna	1498352	213
3	Amma	8493157	121
3	Amma	8493157	589
4	Appa	8795234	546
5	Akka	87492353	580

6 rows in set (0.00 sec)

[mysql> select salesperson.sp_id, salesperson.vendor_name, salesperson.vendor_con] tact, order_info.order_id from salesperson left join order_info on order_info.ve ndor_id=salesperson.sp_id;

sp_id	vendor_name	vendor_contact	order_id
1	Annu	1485131	784
2	Anna	1498352	213
3	Amma	8493157	121
3	Amma	8493157	589
4	Appa	8795234	546
5	Akka	87492353	580

6 rows in set (0.00 sec)

Create index

```
[mysql> create index idx_c_name on cust_data(cust_name)
Query OK, 0 rows affected (0.02 sec)
Records: 0 Duplicates: 0 Warnings: 0
How to show index on a table
[mysql> show index from cust_data \G;
Table: cust_data
   Non_unique: 0
     Key_name: PRIMARY
 Seq_in_index: 1
  Column_name: cust_id
    Collation: A
  Cardinality: 5
     Sub_part: NULL
       Packed: NULL
         Null:
   Index_type: BTREE
      Comment:
Index_comment:
      Visible: YES
   Expression: NULL
************************ 2. row *********************
        Table: cust_data
   Non_unique: 1
     Key_name: idx_c_name
 Seq_in_index: 1
  Column_name: cust_name
    Collation: A
  Cardinality: 5
     Sub_part: NULL
       Packed: NULL
         Null: YES
   Index_type: BTREE
      Comment:
 Index_comment:
      Visible: YES
   Expression: NULL
 2 rows in set (0.00 sec)
ERROR:
No query specified
[mysql>
```

Find the order number, salesperson name, along with the customer to whom that order belongs to

mysql> select salesperson.vendor_name, order_info.order_id, cust_data.cust_name
[from salesperson,order_info,cust_data where (order_info.vendor_id=salesperson.sp]
_id and order_info.cust_id=cust_data.cust_id);

vendor_name	order_id	cust_name
Annu	784	Nancy
Anna	213	Alex
Amma	121	Billy
Amma	589	Alex
Appa	546	John
Akka	580	Jane

6 rows in set (0.00 sec)