Starting MySQL Shell (mysqlsh)

```
$ mysqlsh
MySQL Shell 8.0.17-commercial
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Other names may be trademarks of their respective owners.
Type '\help' or '\?' for help; '\quit' to exit.

MySQL JS session
 MySQL JS
             \connect root@127.0.0.1
Creating a session to 'root@127.0.0.1'
Fetching schema names for autocompletion... Press ^C to stop.
Your MySQL connection id is 10 (X protocol)
Server version: 8.0.17-commercial MySQL Enterprise Server - Commercial
No default schema selected; type \use <schema> to set one.
MySQL 127.0.0.1:33060+ ssl JS session
<Session:root@127.0.0.1:33060>
 MySQL 127.0.0.1:33060+ ssl JS Session
ReferenceError: Session is not defined MySQL 127.0.0.1:33060+ ssl JS \q
Bye!
$ mysqlsh root@127.0.0.1
MySQL Shell 8.0.17-commercial
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Type '\help' or '\?' for help; '\quit' to exit.
Creating a session to 'root@127.0.0.1'
Fetching schema names for autocompletion... Press ^C to stop.
Your MySQL connection id is 11 (X protocol)
Server version: 8.0.17-commercial MySQL Enterprise Server - Commercial
No default schema selected; type \use <schema> to set one.

MySQL 127.0.0.1:33060+ ssl JS session
<Session:root@127.0.0.1:33060>
MySQL 127.0.0.1:33060+ ssl JS
```

MySQL Shell - Create & Drop Schema

```
MySQL 127.0.0.1:33060+ ssl JS session.createSchema("test1")
<Schema:test1>
MySQL 127.0.0.1:33060+ ssl JS session.getSchemas()
   <Schema:information_schema>,
   <Schema: mysql>,
   <Schema: performance_schema>,
   <Schema:sys>,
   <Schema:test1>
MySQL 127.0.0.1:33060+ ssl JS session.runSql('show databases')
 Database
 information_schema
 mysql
 performance_schema
 sys
 test1
5 rows in set (0.0019 sec)
MySQL 127.0.0.1:33060+ ssl JS session.DropSchema("test1")
Invalid object member DropSchema (AttributeError)
MySQL 127.0.0.1:33060+ ssl JS session.dropSchema("test1")
MySQL
      <Schema:information_schema>,
   <Schema: mysql>,
   <Schema:performance_schema>,
   <Schema:sys>
MySQL 127.0.0.1:33060+ ssl JS session.createSchema("workshop")
<Schema:workshop>
MySQL 127.0.0.1:33060+ ssl JS \use workshop
Default schema `workshop` accessible through db.
MySQL 127.0.0.1:33060+ ssl workshop JS db
<Schema:workshop>
MySQL 127.0.0.1:33060+ ssl workshop JS
```

MySQL Shell - Changing schemas with var or \use

```
MySQL 127.0.0.1:33060+ ssl workshop JS \use workshop
Default schema `workshop` accessible through db.
MySQL 127.0.0.1:33060+ ssl workshop JS db
<Schema:workshop>
MySQL 127.0.0.1:33060+ ssl workshop JS session.getSchema('performance_schema');
<Schema:performance_schema>
MySQL 127.0.0.1:33060+ ssl workshop JS db
<Schema:workshop>
session.getSchema('performance_schema');
MySQL 127.0.0.1:33060+ ssl workshop JS db
<Schema:performance_schema>
MySQL 127.0.0.1:33060+ ssl workshop JS \use information_schema
Default schema `information_schema` accessible through db.
MySQL 127.0.0.1:33060+ ssl information_schema JS \use workshop
Default schema `workshop` accessible through db. MySQL 127.0.0.1:33060+ ssl workshop JS db
<Schema:workshop>
MySQL 127.0.0.1:33060+ ssl workshop JS
```

MySQL Shell - Setting commands as variables

```
JS
                                              var sdb = session.runSql('show databases')
 MySQL 127.0.0.1:33060+ ssl workshop
 MySQL 127.0.0.1:33060+ ssl workshop
  Database
  information_schema
  mysal
  performance_schema
  sys
  workshop
5 rows in set (0.0005 sec)
MySQL 127.0.0.1:33060+ ssl workshop JS
Bye!
Hackintosh:~ tonydarnell$ mysqlsh root@127.0.0.1
MySQL Shell 8.0.17-commercial
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Other names may be trademarks of their respective owners.
Type '\help' or '\?' for help; '\quit' to exit.
Creating a session to 'root@127.0.0.1'
Fetching schema names for autocompletion... Press ^C to stop.
Your MySQL connection id is 12 (X protocol)
Server version: 8.0.17-commercial MySQL Enterprise Server - Commercial
No default schema selected; type \use <schema> to set one.
 MySQL 127.0.0.1:33060+ ssl JS sdb
ReferenceError: sdb is not defined MySQL 127.0.0.1:33060+ ssl JS
```

MySQL Modes

```
MySQL 127.0.0.1:33060+ ssl JS \sql Switching to SQL mode... Commands end with; MySQL 127.0.0.1:33060+ ssl SQL \py Switching to Python mode...

MySQL 127.0.0.1:33060+ ssl Py \js Switching to JavaScript mode...

MySQL 127.0.0.1:33060+ ssl JS
```

Create, List, and Drop Collections (tables)

```
MySQL 127.0.0.1:33060+ ssl JS \use workshop
Default schema `workshop` accessible through db.

MySQL 127.0.0.1:33060+ ssl workshop JS db.createCollection("test1")
<Collection:test1>
MySQL 127.0.0.1:33060+ ssl workshop JS db.createCollection("test2")
<Collection:test2>
MySQL 127.0.0.1:33060+ ssl workshop JS db.getCollections()
    <Collection:test1>,
    <Collection:test2>
MySQL 127.0.0.1:33060+ ssl workshop JS session.runSql('show tables')
 Tables_in_workshop |
  test1
l test2
2 rows in set (0.0007 sec)
MySQL 127.0.0.1:33060+ ssl workshop JS db.dropCollection("MySQL 127.0.0.1:33060+ ssl workshop JS db.getCollections()
                                                 db.dropCollection("test1")
    <Collection:test2>
                                           JS
                                                 db.dropCollection("test2")
MySQL 127.0.0.1:33060+ ssl
                                workshop
                                               db.dropestions()
                                           JS
MySQL 127.0.0.1:33060+ ssl workshop
[]
MySQL 127.0.0.1:33060+ ssl workshop JS
```

Working with Collections (tables)

```
MySQL 127.0.0.1:33060+ ssl workshop JS \q
Bye!
Hackintosh:~ tonydarnell$ mysqlsh root@127.0.0.1
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Type '\help' or '\?' for help; '\quit' to exit.
Creating a session to 'root@127.0.0.1'
Fetching schema names for autocompletion... Press ^C to stop.
Your MySQL connection id is 13 (X protocol)
Server version: 8.0.17-commercial MySQL Enterprise Server - Commercial
No default schema selected; type \use <schema> to set one.
 MySQL 127.0.0.1:33060+ ssl JS db.createCollection("foods")
TypeError: Cannot read property 'createCollection' of null
 MySQL 127.0.0.1:33060+ ssl JS \use workshop
Default schema `workshop` accessible through db.
MySQL 127.0.0.1:33060+ ssl workshop JS db.createCollection("foods")
<Collection: foods>
MySQL 127.0.0.1:33060+ ssl workshop JS db.foods.add({Name_First: "Fox", Name_Last:
"Mulder", favorite_food: {Breakfast: "eggs and bacon", Lunch: "pulled pork sandwich", Dinner: "steak and baked potato"}})
Query OK, 1 item affected (0.0144 sec)
MySQL 127.0.0.1:33060+ ssl workshop JS
```

Find Documents

```
127.0.0.1:33060+ ssl workshop JS db.foods.find()
    " id": "00005da090640000000000000001",
    "Name_Last": "Mulder",
"Name_First": "Fox",
    "favorite food": {
        "Lunc\overline{h}": "pulled pork sandwich",
        "Dinner": "steak and baked potato",
        "Breakfast": "eggs and bacon"
    }
}
1 document in set (0.0007 sec)
MySQL 127.0.0.1:33060+ ssl workshop JS db.foods.find('Name_First = "Fox"')
    " id": "00005da090640000000000000001",
    "Name_Last": "Mulder",
    "Name_First": "Fox",
    "favorite food": {
        "Lunch": "pulled pork sandwich", "Dinner": "steak and baked potato",
        "Breakfast": "eggs and bacon"
    }
1 document in set (0.0008 sec)
MySQL 127.0.0.1:33060+ ssl workshop JS db.foods.find('Name_First = "Jason"')
Empty set (0.0003 sec)
MySQL 127.0.0.1:33060+ ssl workshop JS db.foods.find('Name_First =
"Fox"').fields('favorite food')
    "favorite food": {
        "Lunch": "pulled pork sandwich",
        "Dinner": "steak and baked potato",
        "Breakfast": "eggs and bacon"
    }
}
1 document in set (0.0003 sec)
MySQL 127.0.0.1:33060+ ssl workshop JS db.foods.find('Name_First =
"Fox"').fields("favorite_food", "Name_Last")
{
    "Name_Last": "Mulder",
    "favorite_food": {
        "Lunch": "pulled pork sandwich",
        "Dinner": "steak and baked potato",
        "Breakfast": "eggs and bacon"
    }
1 document in set (0.0004 sec)
MySQL 127.0.0.1:33060+ ssl workshop
                                           JS db.foods.add(
                                              -> {
                                                    Name_First: "Dana",
Name_Last: "Scully",
                                              ->
                                              ->
                                                    favorite_food: {
                                              ->
                                                        Breakfast: "coffee with bagel",
                                              ->
                                                        Lunch: "big salad",
                                              ->
                                                        Dinner: "fish with slaw"
                                              ->
                                              -> }
                                              ->
                                                 }
                                              ->
                                              ->
Query OK, 1 item affected (0.0068 sec)
MySQL 127.0.0.1:33060+ ssl workshop JS db.foods.find( 'Name_First =
"Dana"' ).fields( "favorite_food.Breakfast" )
```

```
{
    "favorite_food.Breakfast": "coffee with bagel"
}
1 document in set (0.0005 sec)
```

Modify Documents

```
MySQL 127.0.0.1:33060+ ssl workshop JS db.foods.modify("Name_First =
'Fox'").set("favorite_food", {Lunch: "Soup in a bread bowl", Dinner: "steak and
broccoli"})
Query OK, 1 item affected (0.0052 sec)
Rows matched: 1 Changed: 1 Warnings: 0
MySQL 127.0.0.1:33060+ ssl workshop JS db.foods.find('Name_First = "Fox"')
    " id": "00005da090640000000000000001",
    "Name_Last": "Mulder",
"Name_First": "Fox",
    "favorite food": {
        "Lunch": "Soup in a bread bowl".
        "Dinner": "steak and broccoli"
    }
1 document in set (0.0004 sec)
MySQL 127.0.0.1:33060+ ssl workshop JS db.foods.modify("Name First =
'Fox'").arrayAppend("favorite_food", {Breakfast: "eggs and bacon"})
Query OK, 1 item affected (0.0056 sec)
Rows matched: 1 Changed: 1 Warnings: 0
MySQL 127.0.0.1:33060+ ssl workshop JS db.foods.find('Name_First = "Fox"')
    " id": "00005da090640000000000000001",
    "Name_Last": "Mulder",
"Name_First": "Fox",
    "favorite food": [
            "Lunch": "Soup in a bread bowl",
            "Dinner": "steak and broccoli"
        },
        {
            "Breakfast": "eggs and bacon"
        }
    ]
1 document in set (0.0003 sec)
MySQL 127.0.0.1:33060+ ssl workshop JS db.foods.modify("Name_First =
'Fox'").arrayAppend("favorite_food", {Breakfast: "eggs and bacon", Lunch: "pulled pork sandwich", Dinner: "steak and baked potato" })
Query OK, 1 item affected (0.0036 sec)
MySQL 127.0.0.1:33060+ ssl workshop JS db.foods.find('Name_First = "Fox"')
Rows matched: 1 Changed: 1 Warnings: 0
    " id": "00005da090640000000000000001",
    "Name_Last": "Mulder",
"Name_First": "Fox",
    "favorite_food": [
            "Lunch": "Soup in a bread bowl",
            "Dinner": "steak and broccoli"
        },
        {
            "Breakfast": "eggs and bacon"
        },
{
            "Lunch": "pulled pork sandwich",
            "Dinner": "steak and baked potato",
            "Breakfast": "eggs and bacon"
        }
```

```
1
}
1 document in set (0.0004 sec)
MySQL 127.0.0.1:33060+ ssl workshop JS db.foods.modify("Name_First =
'Fox'").arrayDelete("$.favorite_food[1]")
Query OK, 1 item affected (0.0020 sec)
Rows matched: 1 Changed: 1 Warnings: 0
MySQL 127.0.0.1:33060+ ssl workshop JS db.foods.find('Name_First = "Fox"')
    " id": "00005da090640000000000000001",
   "Name_Last": "Mulder",
"Name_First": "Fox",
    "favorite_food": [
            "Lunch": "Soup in a bread bowl",
            "Dinner": "steak and broccoli"
        },
            "Lunch": "pulled pork sandwich",
            "Dinner": "steak and baked potato",
            "Breakfast": "eggs and bacon"
        }
    ]
1 document in set (0.0004 sec)
MySQL 127.0.0.1:33060+ ssl workshop JS db.foods.find("Name_First = 'Dana'")
{
    " id": "00005da0906400000000000000002",
    "Name_Last": "Scully",
    "Name First": "Dana",
    "favorite food": {
        "Lunch": "big salad",
        "Dinner": "fish with slaw"
        "Breakfast": "coffee with bagel"
    }
1 document in set (0.0003 sec)
MySQL 127.0.0.1:33060+ ssl workshop JS db.foods.modify("Name_First =
'Dana'").set('favorite_food.Dinner', 'Pizza')
Query OK, 1 item affected (0.0045 sec)
Rows matched: 1 Changed: 1 Warnings: 0
MySQL 127.0.0.1:33060+ ssl workshop JS db.foods.find("Name_First = 'Dana'")
{
    " id": "00005da09064000000000000000000002",
    "Name_Last": "Scully",
    "Name First": "Dana",
    "favorite food": {
        "Lunc\overline{h}": "big salad",
        "Dinner": "Pizza"
        "Breakfast": "coffee with bagel"
    }
1 document in set (0.0004 sec)
MySOL 127.0.0.1:33060+ ssl workshop JS db.foods.modify("Name First =
'Dana'").unset("favorite_food.Dinner")
Query OK, 1 item affected (0.0011 sec)
Rows matched: 1 Changed: 1 Warnings: 0
MySQL 127.0.0.1:33060+ ssl workshop JS db.foods.find("Name First = 'Dana'")
    "_id": "00005da0906400000000000000002".
    "Name_Last": "Scully",
    "Name_First": "Dana",
```

```
"favorite food": {
        "Lunch": "big salad",
"Breakfast": "coffee with bagel"
    }
1 document in set (0.0004 sec)
MySQL 127.0.0.1:33060+ ssl workshop JS MySQL 127.0.0.1:33060+ ssl workshop JS
                                                var schema = session.getSchema('workshop')
                                                var collection =
schema.getCollection('foods')
MySQL 127.0.0.1:33060+ ssl workshop JS collection.modify("Name_First =
'Dana'").patch({ Name_Middle: 'Katherine' })
Query OK, 1 item affected (0.0025 sec)
Rows matched: 1 Changed: 1 Warnings: 0
MySQL 127.0.0.1:33060+ ssl workshop JS db.foods.find("Name_First = 'Dana'")
{
    "Name_Last": "Scully",
"Name_First": "Dana",
    "Name_Middle": "Katherine",
    "favorite food": {
        "Lunch": "big salad",
"Breakfast": "coffee with bagel"
    }
1 document in set (0.0003 sec)
MySQL 127.0.0.1:33060+ ssl workshop JS
```

Remove Documents

```
MySQL 127.0.0.1:33060+ ssl workshop JS db.foods.find('Name_First = "Fox"')
{
    "_id": "00005da090640000000000000001",
    "Name_Last": "Mulder", "Name_First": "Fox",
    "favorite_food": [
              "Lunch": "Soup in a bread bowl",
              "Dinner": "steak and broccoli"
         },
{
              "Lunch": "pulled pork sandwich",
"Dinner": "steak and baked potato",
              "Breakfast": "eggs and bacon"
         }
    ]
}
1 document in set (0.0003 sec)
 MySQL 127.0.0.1:33060+ ssl workshop JS db.foods.remove('Name_First = "Fox"')
Query OK, 1 item affected (0.0029 sec)

MySQL 127.0.0.1:33060+ ssl workshop JS db.foods.find('Name_First = "Fox"')
Empty set (0.0004 sec)

MySQL 127.0.0.1:33060+ ssl workshop JS
```

Importing Large Data Set. (Slides 51 and 52)

```
MySQL 127.0.0.1:33060+ ssl workshop JS session.runSql('SHOW VARIABLES like
"%packet%"')
 Variable name
                            | Value
 max allowed packet
                              943718400
 mysqlx_max_allowed_packet
                              1073741824
 slave_max_allowed_packet
                            1073741824
3 rows in set (0.0254 sec)
MySQL 127.0.0.1:33060+ ssl workshop JS session.runSql('SET
@@GLOBAL.mysqlx_max_allowed_packet = 1073741824')
Query OK, 0 rows affected (0.0058 sec)
MySQL 127.0.0.1:33060+ ssl workshop JS session.runSql('SHOW VARIABLES like
"%packet%"')
                             Value
 Variable_name
 max allowed packet
                              943718400
 mysqlx_max_allowed_packet
                              1073741824
 slave_max_allowed_packet
                            | 1073741824
3 rows in set (0.0010 sec)
MySQL 127.0.0.1:33060+ ssl workshop JS session.getSchemas()
    <Schema:information schema>,
    <Schema: mysql>,
    <Schema:performance schema>,
    <Schema:sys>,
    <Schema:workshop>
MySQL 127.0.0.1:33060+ ssl workshop JS session.runSql('SET SQL_LOG_BIN=0')
Query OK, 0 rows affected (0.0003 sec)
MySQL 127.0.0.1:33060+ ssl workshop JS session.createSchema("project")
<Schema:project>
MySQL 127.0.0.1:33060+ ssl workshop JS \use project Default schema `project` accessible through db.
MySQL 127.0.0.1:33060+ ssl project JS util.importJson("./workshop/
Doc_Store_Demo_File.json", {schema: "project", collection: "GoverningPersons"})
Importing from file "./workshop/Doc_Store_Demo_File.json" to collection
project`.`GoverningPersons` in MySQL Server at 127.0.0.1:33060
.. 2613346.. 2613346
Processed 415.71 MB in 2613346 documents in 2 min 51.0696 sec (15.28K documents/s)
Total successfully imported documents 2613346 (15.28K documents/s)
MySQL 127.0.0.1:33060+ ssl project JS
```

Create and Drop Indexes

```
MySQL 127.0.0.1:33060+ ssl project JS \use project
Default schema `project` accessible through db.
MySQL 127.0.0.1:33060+ ssl project JS db.GoverningPersons.find().limit(1)
    "Ubi": "601544680",
    "Zip": "99205",
    "_id": "00005da09064000000000000003", "City": "SPOKANE",
    "State": "WA",
"Title": "GOVERNOR",
    "Address": "RT 5"
    "LastName": "FRISCH",
    "FirstName": "BOB",
    "MiddleName": ""
1 document in set (0.0022 sec)
MySQL 127.0.0.1:33060+ ssl project JS db.GoverningPersons.find('LastName =
"FRISCH"')
{
    "Ubi": "604394655",
    "Zip": "981181210"
    " id": "00005da090640000000000270977",
    "City": "SEATTLE",
    "State": "WA",
    "Title": ""
    "Address": "3922 46TH AVE S",
    "LastName": "FRISCH"
    "FirstName": "CAMERON",
    "MiddleName": ""
82 documents in set (1.1426 sec)
MySQL 127.0.0.1:33060+ ssl project JS db.GoverningPersons.find('LastName =
"FRISCH"')
{
    "Ubi": "604394655",
    "Zip": "981181210"
    "_id": "00005da090640000000000270977",
    "City": "SEATTLE",
    "State": "WA",
    "Title": "",
    "Address": "3922 46TH AVE S",
    "LastName": "FRISCH"
    "FirstName": "CAMERON",
"MiddleName": ""
82 documents in set (1.0689 sec)
```

```
MySQL 127.0.0.1:33060+ ssl project JS db.GoverningPersons.find('LastName =
"FRISCH"')
{
    "Ubi": "604394655",
    "Zip": "981181210"
    "_id": "00005da090640000000000270977",
    "City": "SEATTLE",
    "State": "WA",
    "Title": ""
    "Address": "3922 46TH AVE S",
    "LastName": "FRISCH",
    "FirstName": "CAMERON",
    "MiddleName": ""
82 documents in set (1.0388 sec)
MySQL 127.0.0.1:33060+ ssl project JS db.GoverningPersons.find('LastName =
"VARNELL"')
{
    "Ubi": "604353332",
    "Zip": "981663840";
    "_id": "00005da090640000000000264366",
    "City": "NORMANDY PARK",
    "State": "WA",
    "Title": "",
    "Address": "18150 MARINE VIEW DR SW", "LastName": "VARNELL",
    "FirstName": "JAMES",
"MiddleName": ""
33 documents in set (1.1247 sec)
MySQL 127.0.0.1:33060+ ssl project JS db.GoverningPersons.find('LastName =
"VARNELL"')
{
    "Ubi": "604353332"
    "Zip": "981663840"
    " id": "00005da090640000000000264366",
    "City": "NORMANDY PARK",
    "State": "WA",
    "Title": ""
    "Address": "18150 MARINE VIEW DR SW",
    "LastName": "VARNELL",
    "FirstName": "JAMES",
    "MiddleName": ""
33 documents in set (1.1357 sec)
MySQL 127.0.0.1:33060+ ssl project JS db.GoverningPersons.find('LastName =
"VÁRNELL"')
{
    "Ubi": "604353332",
    "Zip": "981663840"
    " id": "00005da090640000000000264366",
    "City": "NORMANDY PARK",
    "State": "WA",
    "Title": ""
    "Address": "18150 MARINE VIEW DR SW",
    "LastName": "VARNELL",
    "FirstName": "JAMES",
    "MiddleName": ""
33 documents in set (1.1274 sec)
MySQL 127.0.0.1:33060+ ssl project JS
```

Create and Use the Index

```
MySQL 127.0.0.1:33060+ ssl project JS
db.GoverningPersons.createIndex("i_Name_Last", {fields: [{field: "$.LastName", type:
"TEXT(20)"}]})
Query OK, 0 rows affected (7.4664 sec)
MySQL 127.0.0.1:33060+ ssl project JS session.runSql('SHOW INDEX FROM
project.GoverningPersons')
2 rows <u>in </u>set (0.0091 sec)
MySQL 127.0.0.1:33060+ ssl project JS db.GoverningPersons.find('LastName =
"FRISCH"')
{
   "Ubi": "604394655", "Zip": "981181210",
   " id": "00005da090640000000000270977",
   "City": "SEATTLE",
   "State": "WA",
   "Title": "".
   "Address": "3922 46TH AVE S",
   "LastName": "FRISCH",
"FirstName": "CAMERON"
"MiddleName": ""
82 documents in set (0.0119 sec)
MySQL 127.0.0.1:33060+ ssl project JS db.GoverningPersons.find('LastName =
"VÁRNEL<mark>L"'</mark>)
{
   "Ubi": "604353332"
   "Zip": "981663840"
   " id": "00005da090640000000000264366".
   "City": "NORMANDY PARK",
   "State": "WA",
   "Address": "18150 MARINE VIEW DR SW",
   "LastName": "VARNELL",
"FirstName": "JAMES",
   "MiddleName": ""
33 documents in set (0.0066 sec)
MySQL 127.0.0.1:33060+ ssl project JS
```

Drop Index

```
MySQL 127.0.0.1:33060+ ssl project JS db.GoverningPersons.dropIndex("i_Name_Last") session.runSql('SHOW INDEX FROM
project.GoverningPersons')
______
Expression |
  +----+
+-----+
| GoverningPersons | 0 | PRIMARY | 1 | _id | A
2481864 | NULL | NULL | BTREE | | |
NULL
+----+
1 row in set (0.0009 sec)
MySQL 127.0.0.1:33060+ ssl project JS db.GoverningPersons.find('LastName =
"FRISCH"')
.
  "Ubi": "604394655", "Zip": "981181210",
  " id": "00005da090640000000000270977",
  "City": "SEATTLE",
  "State": "WA",
"Title": "",
  "Address": "3922 46TH AVE S",
  "LastName": "FRISCH".
  "FirstName": "CAMERON",
  "MiddleName": ""
82 documents in set (1.0410 sec)
MySQL 127.0.0.1:33060+ ssl project JS
```

Session Formats

```
shell.options.set('resultFormat','table')
MySQL 127.0.0.1:33060+ ssl project JS
MySQL 127.0.0.1:33060+ ssl project JS
                                     session runSql('select user, host from
mysql.user')
                  host
 user
 mysql.infoschema
                  localhost
                  localhost
 mysql.session
                  localhost
 mysql.sys
                  localhost
 root
4 rows in set (0.0061 sec)
MySQL 127.0.0.1:33060+ ssl project
                                 JS
                                     shell.options.set('resultFormat','json')
MySQL 127.0.0.1:33060+ ssl project JS
                                     session.runSql('select user, host from
mysql.user')
   "user": "mysql.infoschema",
   "host": "localhost"
{
   "user": "mysql.session",
   "host": "localhost"
}
{
   "user": "mysql.sys",
   "host": "localhost"
}
{
   "user": "root"
   "host": "localhost"
4 rows in set (0.0004 sec)
MySQL 127.0.0.1:33060+ ssl
                         project
                                 JS
                                     shell.options.set('resultFormat','tabbed')
MySQL 127.0.0.1:33060+ ssl project JS
                                     session runSql('select user, host from
mysql.user')
user host
mysql.infoschema
               localhost
mysql.session localhost
mysql.sys localhost
root localhost
4 rows in set (0.0004 sec)
MySQL 127.0.0.1:33060+ ssl project JS
MySQL 127.0.0.1:33060+ ssl project JS
                                      shell.options.set('resultFormat','vertical')
                                     session.runSql('select user, host from
mysql.user')
user: mysql.infoschema
host: localhost
user: mysql.session
host: localhost
user: mysql.sys
host: localhost
user: root
host: localhost
4 rows in set (0.0004 sec)
MySQL 127.0.0.1:33060+ ssl project JS
```