```
bash: export: `/home/student/.bashrc': not a valid identifier
(base) student@student:~$ mongo
MongoDB shell version v4.4.24
connecting to: mongodb://127.0.0.1:27017/?compressors=disabled&gssapiServiceName=mongodb
Implicit session: session { "id" : UUID("919fe350-4a63-43de-8c87-59114a8812ba") }
MongoDB server version: 4.4.24
---
The server generated these startup warnings when booting:
        2023-10-04T11:36:50.349+05:30: Using the XFS filesystem is strongly recommended with the
WiredTiger storage engine. See http://dochub.mongodb.org/core/prodnotes-filesystem
        2023-10-04T11:36:56.462+05:30: Access control is not enabled for the database. Read and
write access to data and configuration is unrestricted
---
> show dbs
admin    0.000GB
college  0.000GB
config   0.000GB
local    0.000GB
test     0.000GB
> use assign1
switched to db assign1
> create collection "Student"
uncaught exception: SyntaxError: unexpected token: identifier :
@(shell):1:7
> db.createCollection("Student")
{ "ok" : 1 }
> db.collection.insert({f_name:"Shubham" , l_name:"Bagul" , gender:"Male" , class:"TE A" ,
age:19 , grd_point:32.56 , course:{courseName:"Enginnering" , duration:"4"  },
address:{city:"Pune" , state:"Maharastra" , country:"India" } , } )
> db.collection.insert({f_name:"Vishal" , l_name:"Auti" , gender:"Male" , class:"TE A" , age:19 ,
grd_point:35.56 , course:{courseName:"Enginnering" , duration:"4"  }, address:{city:"Pune" ,
state:"Maharastra" , country:"India" } , } )
WriteResult({ "nInserted" : 1 })
```

```
> db.collection.insert({f_name:"Soham" , l_name:"Bajare" , gender:"Male" , class:"TE A" , age:19 ,
grd_point:29.56 , course:{courseName:"Enginnering" , duration:"4"  }, address:{city:"Pune" ,
state:"Maharastra" , country:"India" } , } )
WriteResult({ "nInserted" : 1 })
> db.collection.insert({f_name:"Aditya" , l_name:"Andhale" , gender:"Male" , class:"TE A" ,
age:19 , grd_point:25.56 , course:{courseName:"Enginnering" , duration:"4"  },
address:{city:"ShambhajiNagar" , state:"Maharastra" , country:"India" } , } )
WriteResult({ "nInserted" : 1 })
> db.collection.insert({f_name:"Rutwik" , l_name:"Gaikwad" , gender:"Male" , class:"TE B" ,
age:19 , grd_point:32.6 , course:{courseName:"Enginnering" , duration:"4"  },
address:{city:"Dharashiv" , state:"Maharastra" , country:"India" } , } )
WriteResult({ "nInserted" : 1 })
> db.collection.insert({f_name:"Pratik" , l_name:"Abhang" , gender:"Male" , class:"TE B" ,
age:19 , grd_point:30.6 , course:{courseName:"Enginnering" , duration:"4"  },
address:{city:"Pune" , state:"Maharastra" , country:"India" } , } )
WriteResult({ "nInserted" : 1 })
> db.collection.insert({f_name:"Ayush" , l_name:"Pandey" , gender:"Male" , class:"TE A" , age:19 ,
grd_point:20.6 , course:{courseName:"Enginnering" , duration:"4"  }, address:{city:"Pune" ,
state:"Maharastra" , country:"India" } , } )
WriteResult({ "nInserted" : 1 })
> db.collection.find({}).pretty()
{
        "_id" : ObjectId("651d05a9f108376ad49782d7"),
        "f_name" : "Shubham",
        "l_name" : "Bagul",
        "gender" : "Male",
        "class" : "TE A",
        "age" : 19,
        "grd_point" : 32.56,
        "course" : {
                "courseName" : "Enginnering",
                "duration" : "4"
        },
        "address" : {
                "city" : "Pune",
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                    "state" : "Maharastra",
                    "country" : "India"
            }
    }
    {
            "_id" : ObjectId("651d06d9f108376ad49782d8"),
            "f_name" : "Vishal",
            "l_name" : "Auti",
            "gender" : "Male",
            "class" : "TE A",
            "age" : 19,
            "grd_point" : 35.56,
            "course" : {
                    "courseName" : "Enginnering",
                    "duration" : "4"
            },
            "address" : {
                    "city" : "Pune",
                    "state" : "Maharastra",
                    "country" : "India"
            }
    }
    {
            "_id" : ObjectId("651d0706f108376ad49782d9"),
            "f_name" : "Soham",
            "l_name" : "Bajare",
            "gender" : "Male",
            "class" : "TE A",
            "age" : 19,
            "grd_point" : 29.56,
            "course" : {
                    "courseName" : "Enginnering",
                    "duration" : "4"
            },
            "address" : {
```

```json
                "city" : "Pune",
                "state" : "Maharastra",
                "country" : "India"
        }
}
{
        "_id" : ObjectId("651d0735f108376ad49782da"),
        "f_name" : "Aditya",
        "l_name" : "Andhale",
        "gender" : "Male",
        "class" : "TE A",
        "age" : 19,
        "grd_point" : 25.56,
        "course" : {
                "courseName" : "Enginnering",
                "duration" : "4"
        },
        "address" : {
                "city" : "ShambhajiNagar",
                "state" : "Maharastra",
                "country" : "India"
        }
}
{
        "_id" : ObjectId("651d0777f108376ad49782db"),
        "f_name" : "Rutwik",
        "l_name" : "Gaikwad",
        "gender" : "Male",
        "class" : "TE B",
        "age" : 19,
        "grd_point" : 32.6,
        "course" : {
                "courseName" : "Enginnering",
                "duration" : "4"
        },
```

```
        "address" : {
                "city" : "Dharashiv",
                "state" : "Maharastra",
                "country" : "India"
        }
}
{
        "_id" : ObjectId("651d07c0f108376ad49782dc"),
        "f_name" : "Pratik",
        "l_name" : "Abhang",
        "gender" : "Male",
        "class" : "TE B",
        "age" : 19,
        "grd_point" : 30.6,
        "course" : {
                "courseName" : "Enginnering",
                "duration" : "4"
        },
        "address" : {
                "city" : "Pune",
                "state" : "Maharastra",
                "country" : "India"
        }
}
{
        "_id" : ObjectId("651d07d9f108376ad49782dd"),
        "f_name" : "Ayush",
        "l_name" : "Pandey",
        "gender" : "Male",
        "class" : "TE A",
        "age" : 19,
        "grd_point" : 20.6,
        "course" : {
                "courseName" : "Enginnering",
                "duration" : "4"
```

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                },
                "address" : {
                        "city" : "Pune",
                        "state" : "Maharastra",
                        "country" : "India"
                }
        }
> db.collection.find({ $and : [ {gender:"Male"}, {class:"TE A" }, { grd_point:{$gte:31} } ] } )
{ "_id" : ObjectId("651d05a9f108376ad49782d7"), "f_name" : "Shubham", "l_name" : "Bagul",
"gender" : "Male", "class" : "TE A", "age" : 19, "grd_point" : 32.56, "course" : { "courseName" :
"Enginnering", "duration" : "4" }, "address" : { "city" : "Pune", "state" : "Maharastra", "country" :
"India" } }
{ "_id" : ObjectId("651d06d9f108376ad49782d8"), "f_name" : "Vishal", "l_name" : "Auti",
"gender" : "Male", "class" : "TE A", "age" : 19, "grd_point" : 35.56, "course" : { "courseName" :
"Enginnering", "duration" : "4" }, "address" : { "city" : "Pune", "state" : "Maharastra", "country" :
"India" } }
> db.collection.find({$or: [ {gender:"Male"} , {grd_point: {$gte:31 } }  ]  } )
{ "_id" : ObjectId("651d05a9f108376ad49782d7"), "f_name" : "Shubham", "l_name" : "Bagul",
"gender" : "Male", "class" : "TE A", "age" : 19, "grd_point" : 32.56, "course" : { "courseName" :
"Enginnering", "duration" : "4" }, "address" : { "city" : "Pune", "state" : "Maharastra", "country" :
"India" } }
{ "_id" : ObjectId("651d06d9f108376ad49782d8"), "f_name" : "Vishal", "l_name" : "Auti",
"gender" : "Male", "class" : "TE A", "age" : 19, "grd_point" : 35.56, "course" : { "courseName" :
"Enginnering", "duration" : "4" }, "address" : { "city" : "Pune", "state" : "Maharastra", "country" :
"India" } }
{ "_id" : ObjectId("651d0706f108376ad49782d9"), "f_name" : "Soham", "l_name" : "Bajare",
"gender" : "Male", "class" : "TE A", "age" : 19, "grd_point" : 29.56, "course" : { "courseName" :
"Enginnering", "duration" : "4" }, "address" : { "city" : "Pune", "state" : "Maharastra", "country" :
"India" } }
{ "_id" : ObjectId("651d0735f108376ad49782da"), "f_name" : "Aditya", "l_name" : "Andhale",
"gender" : "Male", "class" : "TE A", "age" : 19, "grd_point" : 25.56, "course" : { "courseName" :
"Enginnering", "duration" : "4" }, "address" : { "city" : "ShambhajiNagar", "state" : "Maharastra",
"country" : "India" } }
{ "_id" : ObjectId("651d0777f108376ad49782db"), "f_name" : "Rutwik", "l_name" : "Gaikwad",
"gender" : "Male", "class" : "TE B", "age" : 19, "grd_point" : 32.6, "course" : { "courseName" :
```

"Enginnering", "duration" : "4" }, "address" : { "city" : "Dharashiv", "state" : "Maharastra", "country" : "India" } }

{ "_id" : ObjectId("651d07c0f108376ad49782dc"), "f_name" : "Pratik", "l_name" : "Abhang", "gender" : "Male", "class" : "TE B", "age" : 19, "grd_point" : 30.6, "course" : { "courseName" : "Enginnering", "duration" : "4" }, "address" : { "city" : "Pune", "state" : "Maharastra", "country" : "India" } }

{ "_id" : ObjectId("651d07d9f108376ad49782dd"), "f_name" : "Ayush", "l_name" : "Pandey", "gender" : "Male", "class" : "TE A", "age" : 19, "grd_point" : 20.6, "course" : { "courseName" : "Enginnering", "duration" : "4" }, "address" : { "city" : "Pune", "state" : "Maharastra", "country" : "India" } }

```
> db.collection.find({$or: [ {gender:"Male"} , {grd_point: {$gte:31 } } ] } ).pretty()
{
        "_id" : ObjectId("651d05a9f108376ad49782d7"),
        "f_name" : "Shubham",
        "l_name" : "Bagul",
        "gender" : "Male",
        "class" : "TE A",
        "age" : 19,
        "grd_point" : 32.56,
        "course" : {
                "courseName" : "Enginnering",
                "duration" : "4"
        },
        "address" : {
                "city" : "Pune",
                "state" : "Maharastra",
                "country" : "India"
        }
}
{
        "_id" : ObjectId("651d06d9f108376ad49782d8"),
        "f_name" : "Vishal",
        "l_name" : "Auti",
        "gender" : "Male",
        "class" : "TE A",
```

```
        "age" : 19,
        "grd_point" : 35.56,
        "course" : {
                "courseName" : "Enginnering",
                "duration" : "4"
        },
        "address" : {
                "city" : "Pune",
                "state" : "Maharastra",
                "country" : "India"
        }
}
{
        "_id" : ObjectId("651d0706f108376ad49782d9"),
        "f_name" : "Soham",
        "l_name" : "Bajare",
        "gender" : "Male",
        "class" : "TE A",
        "age" : 19,
        "grd_point" : 29.56,
        "course" : {
                "courseName" : "Enginnering",
                "duration" : "4"
        },
        "address" : {
                "city" : "Pune",
                "state" : "Maharastra",
                "country" : "India"
        }
}
{
        "_id" : ObjectId("651d0735f108376ad49782da"),
        "f_name" : "Aditya",
        "l_name" : "Andhale",
        "gender" : "Male",
```

```json
        "class" : "TE A",
        "age" : 19,
        "grd_point" : 25.56,
        "course" : {
                "courseName" : "Enginnering",
                "duration" : "4"
        },
        "address" : {
                "city" : "ShambhajiNagar",
                "state" : "Maharastra",
                "country" : "India"
        }
}
{
        "_id" : ObjectId("651d0777f108376ad49782db"),
        "f_name" : "Rutwik",
        "l_name" : "Gaikwad",
        "gender" : "Male",
        "class" : "TE B",
        "age" : 19,
        "grd_point" : 32.6,
        "course" : {
                "courseName" : "Enginnering",
                "duration" : "4"
        },
        "address" : {
                "city" : "Dharashiv",
                "state" : "Maharastra",
                "country" : "India"
        }
}
{
        "_id" : ObjectId("651d07c0f108376ad49782dc"),
        "f_name" : "Pratik",
        "l_name" : "Abhang",
```

```
        "gender" : "Male",
        "class" : "TE B",
        "age" : 19,
        "grd_point" : 30.6,
        "course" : {
                "courseName" : "Enginnering",
                "duration" : "4"
        },
        "address" : {
                "city" : "Pune",
                "state" : "Maharastra",
                "country" : "India"
        }
}
{
        "_id" : ObjectId("651d07d9f108376ad49782dd"),
        "f_name" : "Ayush",
        "l_name" : "Pandey",
        "gender" : "Male",
        "class" : "TE A",
        "age" : 19,
        "grd_point" : 20.6,
        "course" : {
                "courseName" : "Enginnering",
                "duration" : "4"
        },
        "address" : {
                "city" : "Pune",
                "state" : "Maharastra",
                "country" : "India"
        }
}
> db.collection.find({ $and : [ {age:19 },  {address: {city:"Pune" ,state:"Maharastra",
country:"India" } } ] } ).pretty()
{
```

```
        "_id" : ObjectId("651d05a9f108376ad49782d7"),
        "f_name" : "Shubham",
        "l_name" : "Bagul",
        "gender" : "Male",
        "class" : "TE A",
        "age" : 19,
        "grd_point" : 32.56,
        "course" : {
                "courseName" : "Enginnering",
                "duration" : "4"
        },
        "address" : {
                "city" : "Pune",
                "state" : "Maharastra",
                "country" : "India"
        }
}
{
        "_id" : ObjectId("651d06d9f108376ad49782d8"),
        "f_name" : "Vishal",
        "l_name" : "Auti",
        "gender" : "Male",
        "class" : "TE A",
        "age" : 19,
        "grd_point" : 35.56,
        "course" : {
                "courseName" : "Enginnering",
                "duration" : "4"
        },
        "address" : {
                "city" : "Pune",
                "state" : "Maharastra",
                "country" : "India"
        }
}
```

```json
{
        "_id" : ObjectId("651d0706f108376ad49782d9"),
        "f_name" : "Soham",
        "l_name" : "Bajare",
        "gender" : "Male",
        "class" : "TE A",
        "age" : 19,
        "grd_point" : 29.56,
        "course" : {
                "courseName" : "Enginnering",
                "duration" : "4"
        },
        "address" : {
                "city" : "Pune",
                "state" : "Maharastra",
                "country" : "India"
        }
}
{
        "_id" : ObjectId("651d07c0f108376ad49782dc"),
        "f_name" : "Pratik",
        "l_name" : "Abhang",
        "gender" : "Male",
        "class" : "TE B",
        "age" : 19,
        "grd_point" : 30.6,
        "course" : {
                "courseName" : "Enginnering",
                "duration" : "4"
        },
        "address" : {
                "city" : "Pune",
                "state" : "Maharastra",
                "country" : "India"
        }
```

```
        }
        {
                "_id" : ObjectId("651d07d9f108376ad49782dd"),
                "f_name" : "Ayush",
                "l_name" : "Pandey",
                "gender" : "Male",
                "class" : "TE A",
                "age" : 19,
                "grd_point" : 20.6,
                "course" : {
                        "courseName" : "Enginnering",
                        "duration" : "4"
                },
                "address" : {
                        "city" : "Pune",
                        "state" : "Maharastra",
                        "country" : "India"
                }
        }
> db.collection.update({f_name:"Ayush" },{ $set: {age:20 }  } )
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
> db.collection.find({f_name:"Ayush"})
{ "_id" : ObjectId("651d07d9f108376ad49782dd"), "f_name" : "Ayush", "l_name" : "Pandey",
"gender" : "Male", "class" : "TE A", "age" : 20, "grd_point" : 20.6, "course" : { "courseName" :
"Enginnering", "duration" : "4" }, "address" : { "city" : "Pune", "state" : "Maharastra", "country" :
"India" } }
> db.collection.update({f_name:"Vishal" },{ $set: {course:{courseName:"MCA" } }  } )
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
> db.collection.find({f_name:"Vishal"})
{ "_id" : ObjectId("651d06d9f108376ad49782d8"), "f_name" : "Vishal", "l_name" : "Auti",
"gender" : "Male", "class" : "TE A", "age" : 19, "grd_point" : 35.56, "course" : { "courseName" :
"MCA" }, "address" : { "city" : "Pune", "state" : "Maharastra", "country" : "India" } }
> db.collection.deleteOne( { address: { city:"Dharashiv", state:"Maharastra" , country:"India"}  } )
{ "acknowledged" : true, "deletedCount" : 1 }
> db.collection.find().pretty()
```

```
{
        "_id" : ObjectId("651d05a9f108376ad49782d7"),
        "f_name" : "Shubham",
        "l_name" : "Bagul",
        "gender" : "Male",
        "class" : "TE A",
        "age" : 19,
        "grd_point" : 32.56,
        "course" : {
                "courseName" : "Enginnering",
                "duration" : "4"
        },
        "address" : {
                "city" : "Pune",
                "state" : "Maharastra",
                "country" : "India"
        }
}
{
        "_id" : ObjectId("651d06d9f108376ad49782d8"),
        "f_name" : "Vishal",
        "l_name" : "Auti",
        "gender" : "Male",
        "class" : "TE A",
        "age" : 19,
        "grd_point" : 35.56,
        "course" : {
                "courseName" : "MCA"
        },
        "address" : {
                "city" : "Pune",
                "state" : "Maharastra",
                "country" : "India"
        }
}
```

```
{
        "_id" : ObjectId("651d0706f108376ad49782d9"),
        "f_name" : "Soham",
        "l_name" : "Bajare",
        "gender" : "Male",
        "class" : "TE A",
        "age" : 19,
        "grd_point" : 29.56,
        "course" : {
                "courseName" : "Enginnering",
                "duration" : "4"
        },
        "address" : {
                "city" : "Pune",
                "state" : "Maharastra",
                "country" : "India"
        }
}
{ "_id" : ObjectId("651d0735f108376ad49782da"), "age" : 20 }
{
        "_id" : ObjectId("651d07c0f108376ad49782dc"),
        "f_name" : "Pratik",
        "l_name" : "Abhang",
        "gender" : "Male",
        "class" : "TE B",
        "age" : 19,
        "grd_point" : 30.6,
        "course" : {
                "courseName" : "Enginnering",
                "duration" : "4"
        },
        "address" : {
                "city" : "Pune",
                "state" : "Maharastra",
                "country" : "India"
```

```
        }
}
{
        "_id" : ObjectId("651d07d9f108376ad49782dd"),
        "f_name" : "Ayush",
        "l_name" : "Pandey",
        "gender" : "Male",
        "class" : "TE A",
        "age" : 20,
        "grd_point" : 20.6,
        "course" : {
                "courseName" : "Enginnering",
                "duration" : "4"
        },
        "address" : {
                "city" : "Pune",
                "state" : "Maharastra",
                "country" : "India"
        }
}
> db.collection.deleteOne({ $and: [ {l_name:"Abhang" } , {age:19 }  ]} )
{ "acknowledged" : true, "deletedCount" : 1 }
> db.collection.find().pretty()
{
        "_id" : ObjectId("651d05a9f108376ad49782d7"),
        "f_name" : "Shubham",
        "l_name" : "Bagul",
        "gender" : "Male",
        "class" : "TE A",
        "age" : 19,
        "grd_point" : 32.56,
        "course" : {
                "courseName" : "Enginnering",
                "duration" : "4"
        },
```

```
        "address" : {
                "city" : "Pune",
                "state" : "Maharastra",
                "country" : "India"
        }
}
{
        "_id" : ObjectId("651d06d9f108376ad49782d8"),
        "f_name" : "Vishal",
        "l_name" : "Auti",
        "gender" : "Male",
        "class" : "TE A",
        "age" : 19,
        "grd_point" : 35.56,
        "course" : {
                "courseName" : "MCA"
        },
        "address" : {
                "city" : "Pune",
                "state" : "Maharastra",
                "country" : "India"
        }
}
{
        "_id" : ObjectId("651d0706f108376ad49782d9"),
        "f_name" : "Soham",
        "l_name" : "Bajare",
        "gender" : "Male",
        "class" : "TE A",
        "age" : 19,
        "grd_point" : 29.56,
        "course" : {
                "courseName" : "Enginnering",
                "duration" : "4"
        },
```

```
        "address" : {

                "city" : "Pune",

                "state" : "Maharastra",

                "country" : "India"

        }

}
{ "_id" : ObjectId("651d0735f108376ad49782da"), "age" : 20 }
{

        "_id" : ObjectId("651d07d9f108376ad49782dd"),

        "f_name" : "Ayush",

        "l_name" : "Pandey",

        "gender" : "Male",

        "class" : "TE A",

        "age" : 20,

        "grd_point" : 20.6,

        "course" : {

                "courseName" : "Enginnering",

                "duration" : "4"

        },

        "address" : {

                "city" : "Pune",

                "state" : "Maharastra",

                "country" : "India"

        }

}
> db.collection.update( {$and : [ {l_name:"Auti"} , {age:19 } ] } , {$set: { address:
{city:"Nagpur" , state:"MH" , country:"India" }  }  }  )


WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
> db.collection.find({l_name:"Auti" } ).pretty()
{

        "_id" : ObjectId("651d06d9f108376ad49782d8"),

        "f_name" : "Vishal",

        "l_name" : "Auti",

        "gender" : "Male",
```

```
        "class" : "TE A",
        "age" : 19,
        "grd_point" : 35.56,
        "course" : {
                "courseName" : "MCA"
        },
        "address" : {
                "city" : "Nagpur",
                "state" : "MH",
                "country" : "India"
        }
}
>
```