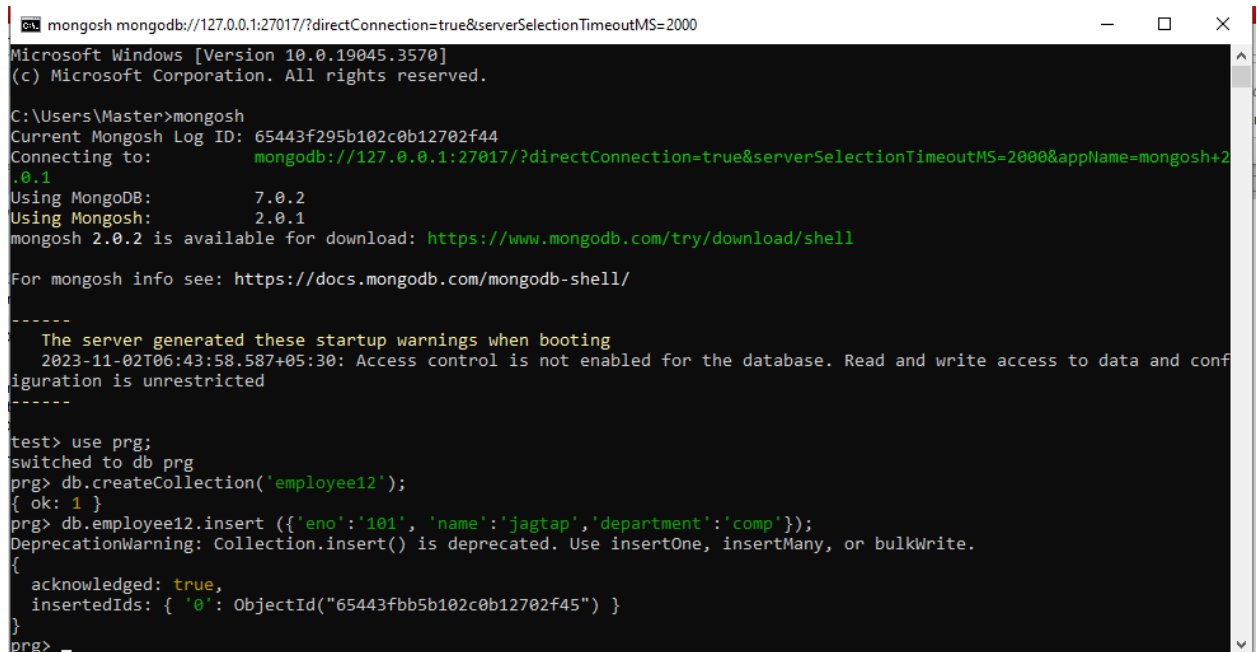


DBMSL Programs Steps for executing the Programs (follow the steps)

MongoDB Program steps (on windows OS)

1. In windows, Goto Command Prompt, Type **cmd**
2. Type **Mongosh**
(C:\Users\Master>mongosh)
3. Type database name as (e.g. prg)
Test> **use prg**
Switch to db prg will appear on screen
4. Type collection name (e.g. employee12)
prg>**db.createCollection ('employee12');**
{ok:1} will appear
5. Start writing programs by using insert command as: (by using key : value pair)
prg>**db.employee12.insert({'eno':'101', 'name':'jagtap','department':'comp'})**);

Screenshot



```
mongosh mongodb://127.0.0.1:27017/?directConnection=true&serverSelectionTimeoutMS=2000
Microsoft Windows [Version 10.0.19045.3570]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Master>mongosh
Current Mongosh Log ID: 65443f295b102c0b12702f44
Connecting to:      mongodb://127.0.0.1:27017/?directConnection=true&serverSelectionTimeoutMS=2000&appName=mongosh+2
.0.1
Using MongoDB:      7.0.2
Using Mongosh:      2.0.1
mongosh 2.0.2 is available for download: https://www.mongodb.com/try/download/shell
For mongosh info see: https://docs.mongodb.com/mongosh-shell/

-----
The server generated these startup warnings when booting
2023-11-02T06:43:58.587+05:30: Access control is not enabled for the database. Read and write access to data and conf
iguration is unrestricted
-----

test> use prg;
switched to db prg
prg> db.createCollection('employee12');
{ ok: 1 }
prg> db.employee12.insert ({'eno':'101', 'name':'jagtap','department':'comp'});
DeprecationWarning: Collection.insert() is deprecated. Use insertOne, insertMany, or bulkWrite.
{
  acknowledged: true,
  insertedIds: { '0': ObjectId("65443fbb5b102c0b12702f45") }
}
prg>
```

PL/SQL Program Steps: (On Windows O.S.) – Oracle 11g database

1. Type **SQL** on search bar of windows home screen
2. Click on **Run SQL Command Line (open app)** – SQL Prompt will appear, Type
3. **SQL> connect / as sysdba**
‘Connected’ msg appears (it connect you with database)
4. Start writing the program (by creating table first)

```
Run SQL Command Line

SQL*Plus: Release 11.2.0.2.0 Production on Fri Nov 3 05:12:52 2023
Copyright (c) 1982, 2014, Oracle. All rights reserved.

SQL> connect/ as sysdba
Connected.
SQL> create table emp2 (eno int, ename varchar(20));
Table created.
SQL> _
```

MySQL Programs Steps: (on Windows OS)

1. Type **MySQL** on search bar of Windows
2. Click on '**MySQL Command Line Client**' (open App)
3. Enter password as '**root**' (Mysql prompt will appear)
4. `mysql> create database student12;` (e.g. student12)
Query OK, 1 row affected (0.06 sec)
5. `mysql> use student12;`
Database changed

```
MySQL 8.0 Command Line Client
Enter password: ****
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 11
Server version: 8.0.34 MySQL Community Server - GPL

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owners.

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

mysql> create database student12;
Query OK, 1 row affected (0.00 sec)

mysql> use student12;
Database changed
mysql> create table student12(sid int, sname varchar(20), sage int);
Query OK, 0 rows affected (0.01 sec)

mysql> insert into student12 values('101','jagtap','42');
Query OK, 1 row affected (0.00 sec)

mysql>
```

=====

MySQL Programs Steps: (on Ubuntu OS)

Step 1. Open **Terminal** on Ubuntu.

Step 2. Type the following commands one by one on terminal:

1) `sudo apt install mysql-server`

2) `sudo apt install mysql-client`

3) `mysql -u root -p`

- It will ask you Enter password:
- Just type "root" and hit enter.
- If it say Error: Access denied for user 'root'@'localhost'
- Then type `--sudo mysql`
- And hit enter only then your mysql will install and will start your program...

```
sanghavi@sanghavi-HP-EliteDesk-800-G2-SFF:~$ sudo apt install mysql-server
[sudo] password for sanghavi:
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following packages were automatically installed and are no longer required:
  javascript-common libexpat1-dev libjs-jquery libjs-sphinxdoc
  libjs-underscore libpython3-dev libpython3.10-dev python3-dev python3-wheel
  python3.10-dev zlib1g-dev
Use 'sudo apt autoremove' to remove them.
The following packages will be upgraded:
  mysql-server
1 upgraded, 0 newly installed, 0 to remove and 204 not upgraded.
Need to get 9,458 B of archives.
After this operation, 0 B of additional disk space will be used.
Get:1 http://in.archive.ubuntu.com/ubuntu jammy-updates/main amd64 mysql-server all 8.0.43-0ubuntu0.22.04.2 [9,458 B]
Fetched 9,458 B in 0s (29.8 kB/s)
(Reading database ... 213085 files and directories currently installed.)
Preparing to unpack .../mysql-server_8.0.43-0ubuntu0.22.04.2_all.deb ...
Unpacking mysql-server (8.0.43-0ubuntu0.22.04.2) over (8.0.43-0ubuntu0.22.04.1) ...
Setting up mysql-server (8.0.43-0ubuntu0.22.04.2) ...
sanghavi@sanghavi-HP-EliteDesk-800-G2-SFF:~$ sudo apt install mysql-client
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following packages were automatically installed and are no longer required:
  javascript-common libexpat1-dev libjs-jquery libjs-sphinxdoc libjs-underscore libpython3-dev
  libpython3.10-dev python3-dev python3-wheel python3.10-dev zlib1g-dev
Use 'sudo apt autoremove' to remove them.
The following NEW packages will be installed:
  mysql-client
0 upgraded, 1 newly installed, 0 to remove and 204 not upgraded.
Need to get 9,354 B of archives.
After this operation, 35.8 kB of additional disk space will be used.
Get:1 http://in.archive.ubuntu.com/ubuntu jammy-updates/main amd64 mysql-client all 8.0.43-0ubuntu0.22.04.2 [9,354 B]
Fetched 9,354 B in 0s (33.0 kB/s)
Selecting previously unselected package mysql-client.
```

```
Fetch 9,354 B in 0s (33.0 kB/s)
Selecting previously unselected package mysql-client.
(Reading database ... 213085 files and directories currently installed.)
Preparing to unpack .../mysql-client_8.0.43-0ubuntu0.22.04.2_all.deb ...
Unpacking mysql-client (8.0.43-0ubuntu0.22.04.2) ...
Setting up mysql-client (8.0.43-0ubuntu0.22.04.2) ...
sanghavi@sanghavi-HP-EliteDesk-800-G2-SFF:~$ mysql -u root -p
Enter password:
ERROR 1698 (28000): Access denied for user 'root'@'localhost'
sanghavi@sanghavi-HP-EliteDesk-800-G2-SFF:~$ sudo mysql
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 9
Server version: 8.0.43-0ubuntu0.22.04.1 (Ubuntu)

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

mysql> S
```