**\_\_DevOps ASSIGNMENTS\_\_**

* **Install PostgreSQL and write a database backup script using bash.**

**After Successfull installation of postgres\_**

-sudo -i -u postgres

-[sudo] password for webonise:

-postgres@webonise:~$ createdb Webonator

-postgres@webonise:~$ createdb Webonators

-postgres@webonise:~$ psql Webonators

-psql (14.1 (Ubuntu 14.1-2.pgdg20.04+1))

-Webonators=# create table Actor(Act\_no integer primary key , Act\_name varchar(40));

-CREATE TABLE

-Webonators=# \d Actor

**Table "public.actor"**

Column | Type | Collation | Nullable | Default

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

act\_no | integer | | not null |

act\_name | character varying(40) | | |

Indexes:

"actor\_pkey" PRIMARY KEY, btree (act\_no)

-Webonators=# create table Movie ( Mov\_no integer primary key, - Mov\_name varchar (50) , Rel\_year integer , A\_no integer references Actor (Act\_no));

-CREATE TABLE

-Webonators=# \d Movie

**Table "public.movie"**

Column | Type | Collation | Nullable | Default

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

mov\_no | integer | | not null |

mov\_name | character varying(50) | | |

rel\_year | integer | | |

a\_no | integer | | |

-Indexes:

"movie\_pkey" PRIMARY KEY, btree (mov\_no)

Foreign-key constraints:

"movie\_a\_no\_fkey" FOREIGN KEY (a\_no) REFERENCES actor(act\_no)

Webonators=# insert into Actor values (1, 'Amir');

INSERT 0 1

Webonators=# insert into Actor values (2, 'Salman');

INSERT 0 1

Webonators=# insert into Actor values (3, 'hritik');

INSERT 0 1

Webonators=# insert into Movie values (1, 'Dhoom', 2000, 1);

INSERT 0 1

Webonators=# insert into Movie values (2, 'Dhoom', 2000,2);

INSERT 0 1

Webonators=# insert into Movie values (3, 'Dabang', 2010,3);

INSERT 0 1

Webonators=# insert into Movie values (4, 'Baghi3', 2010,2);

INSERT 0 1

Webonators=# select \* from Actor ;

act\_no | act\_name

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

1 | Amir

2 | Salman

3 | hritik

(3 rows)

Webonators=# select \* from Movie;

mov\_no | mov\_name | rel\_year | a\_no

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

1 | Dhoom | 2000 | 1

2 | Dhoom | 2000 | 2

3 | Dabang | 2010 | 3

4 | Baghi3 | 2010 | 2

(4 rows)

Webonators=# select count(\*) from Movie where rel\_year=2010;

count

-------

2

(1 row)

Webonators=# select Act\_no,Act\_name from Actor ,Movie where Mov\_name='Dhoom' and Movie.a\_no=Actor.Act\_no;

act\_no | act\_name

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

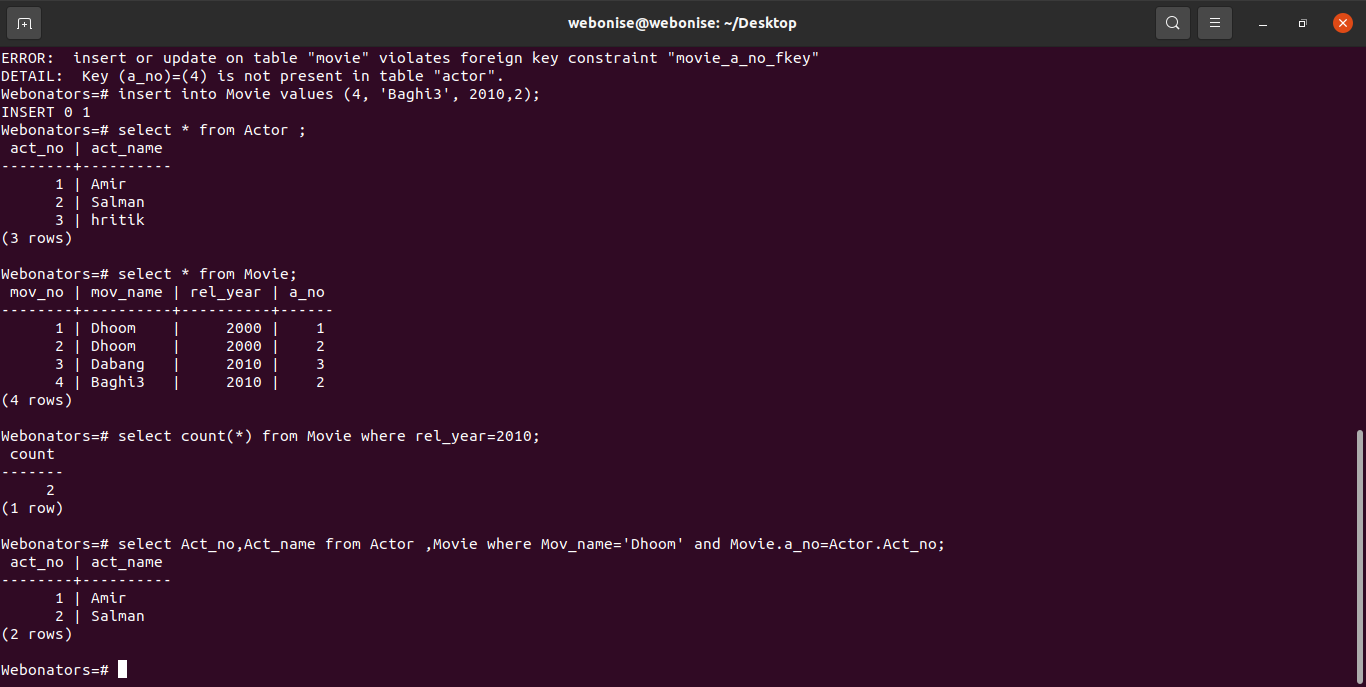
1 | Amir

2 | Salman

(2 rows)

**Screenshots of DATABASES:**

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* ***Install Mysql and write a database backup script using bash.***

- sudo apt update -y (Updation)

- sudo apt install mysql-server -y (Installation of mysql server)

- sudo systemctl status mysql.service (Check the status of mysql if it is active/Running or not )

- sudo mysql\_secure\_installation (Set password here)

- mysql -u root -p ( Enter into Mysql monitor)

- SHOW DATABASES (It will show existing databses )

- CREATE DATABASE Database\_name;

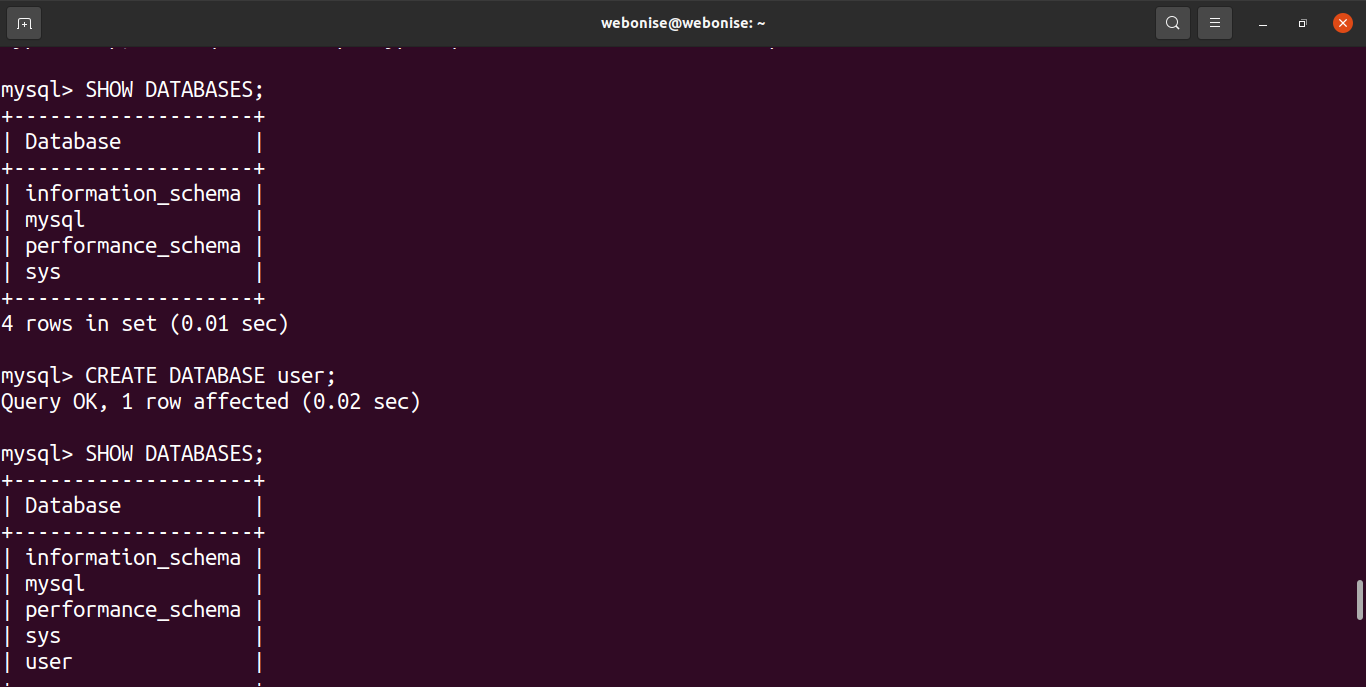
- SHOW DATABASES (It will show your created databse in list now)

- CREATE TABLE Table\_name;

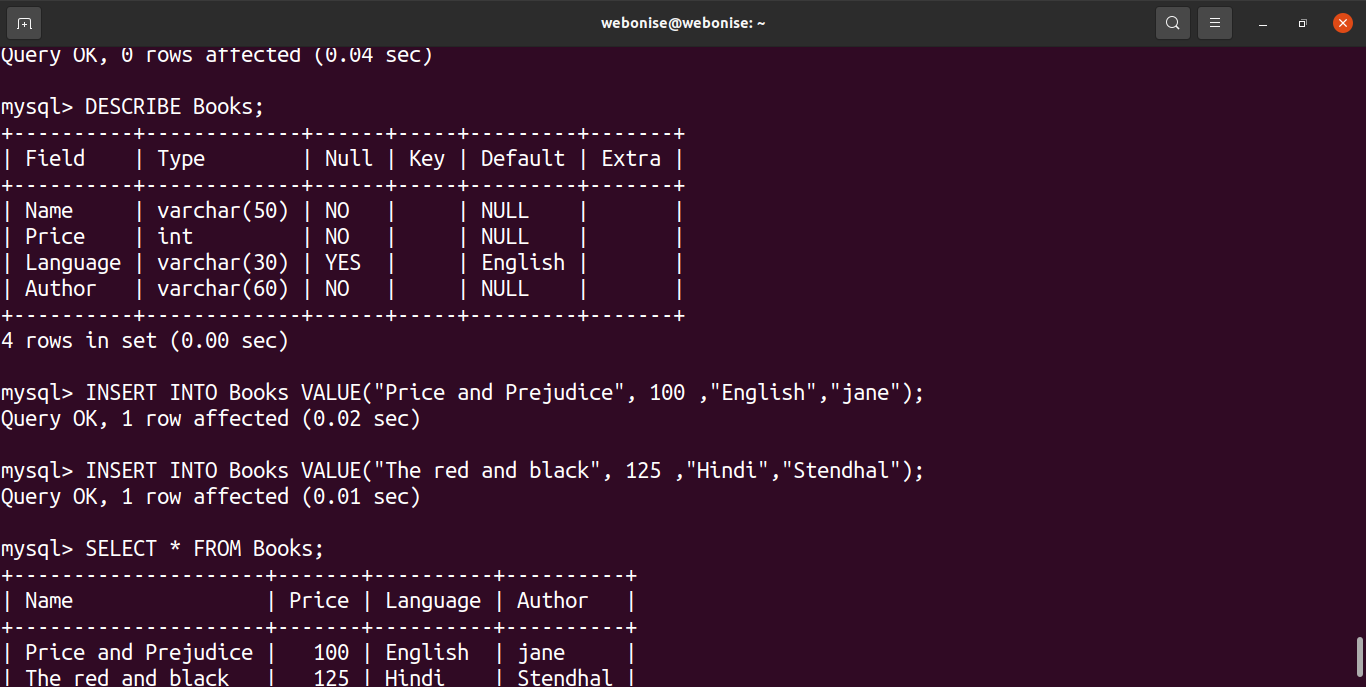
- INSERT INTO Table\_name VALUES( “ ”, ,” ”);

- SELECT \* FROM Table\_name; (It will show All the inserted data into table)

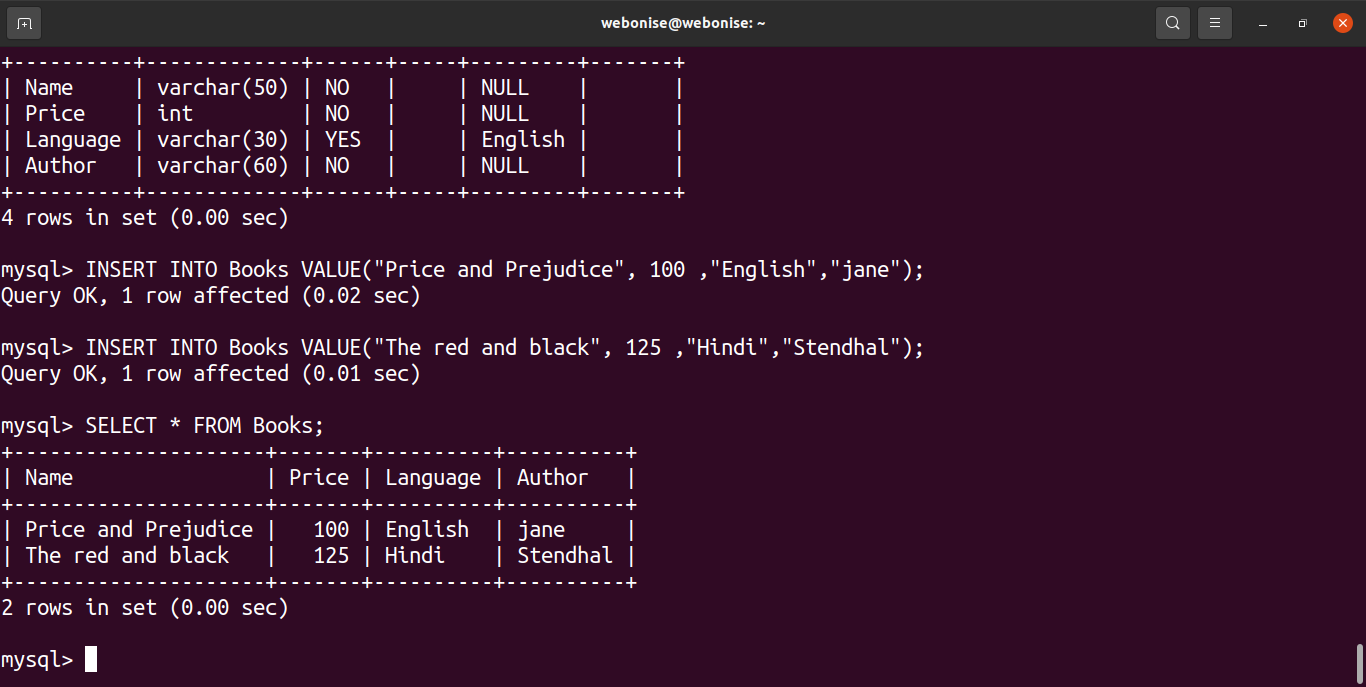
**1st :-Creation of database**



**2nd:Table creation**



**3rd:Insertion of data into table:**



**Mysql Database Backup Script:**

- mysqldump -u root -p user > user.sql (Command for backup)

- ls -la user.sql (It will show that backup has been created)

- And the .sql file save on Desktop with backup script like given below.

**Script:**

-- MySQL dump 10.13 Distrib 8.0.27, for Linux (x86\_64)

--

-- Host: localhost Database: user

-- ------------------------------------------------------

-- Server version 8.0.27

/\*!40101 SET @OLD\_CHARACTER\_SET\_CLIENT=@@CHARACTER\_SET\_CLIENT \*/;

/\*!40101 SET @OLD\_CHARACTER\_SET\_RESULTS=@@CHARACTER\_SET\_RESULTS \*/;

/\*!40101 SET @OLD\_COLLATION\_CONNECTION=@@COLLATION\_CONNECTION \*/;

/\*!50503 SET NAMES utf8mb4 \*/;

/\*!40103 SET @OLD\_TIME\_ZONE=@@TIME\_ZONE \*/;

/\*!40103 SET TIME\_ZONE='+00:00' \*/;

/\*!40014 SET @OLD\_UNIQUE\_CHECKS=@@UNIQUE\_CHECKS, UNIQUE\_CHECKS=0 \*/;

/\*!40014 SET @OLD\_FOREIGN\_KEY\_CHECKS=@@FOREIGN\_KEY\_CHECKS, FOREIGN\_KEY\_CHECKS=0 \*/;

/\*!40101 SET @OLD\_SQL\_MODE=@@SQL\_MODE, SQL\_MODE='NO\_AUTO\_VALUE\_ON\_ZERO' \*/;

/\*!40111 SET @OLD\_SQL\_NOTES=@@SQL\_NOTES, SQL\_NOTES=0 \*/;

--

-- Table structure for table `Books`

--

DROP TABLE IF EXISTS `Books`;

/\*!40101 SET @saved\_cs\_client = @@character\_set\_client \*/;

/\*!50503 SET character\_set\_client = utf8mb4 \*/;

CREATE TABLE `Books` (

`Name` varchar(50) NOT NULL,

`Price` int NOT NULL,

`Language` varchar(30) DEFAULT 'English',

`Author` varchar(60) NOT NULL

) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4\_0900\_ai\_ci;

/\*!40101 SET character\_set\_client = @saved\_cs\_client \*/;

--

-- Dumping data for table `Books`

--

LOCK TABLES `Books` WRITE;

/\*!40000 ALTER TABLE `Books` DISABLE KEYS \*/;

INSERT INTO `Books` VALUES ('Price and Prejudice',100,'English','jane'),('The red and black',125,'Hindi','Stendhal');

/\*!40000 ALTER TABLE `Books` ENABLE KEYS \*/;

UNLOCK TABLES;

/\*!40103 SET TIME\_ZONE=@OLD\_TIME\_ZONE \*/;

/\*!40101 SET SQL\_MODE=@OLD\_SQL\_MODE \*/;

/\*!40014 SET FOREIGN\_KEY\_CHECKS=@OLD\_FOREIGN\_KEY\_CHECKS \*/;

/\*!40014 SET UNIQUE\_CHECKS=@OLD\_UNIQUE\_CHECKS \*/;

/\*!40101 SET CHARACTER\_SET\_CLIENT=@OLD\_CHARACTER\_SET\_CLIENT \*/;

/\*!40101 SET CHARACTER\_SET\_RESULTS=@OLD\_CHARACTER\_SET\_RESULTS \*/;

/\*!40101 SET COLLATION\_CONNECTION=@OLD\_COLLATION\_CONNECTION \*/;

/\*!40111 SET SQL\_NOTES=@OLD\_SQL\_NOTES \*/;

-- Dump completed on 2021-12-09 22:49:01

* ***Install & Configure Wordpress / Magento / Drupal / php / website with nginx proxy.***

- sudo apt update -y (updatation)

- sudo apt install nginx -y (To install nginx )

- sudo systemctl start nginx (To start the nginx service)

- sudo systemctl status nginx (To check status of nginx)

- ip a (Run this command it will show ip address ,copy that ip address and paste it at chrome it will display “Welcome to Nginx”)

- sudo apt install mysql-server mysql-client -y (Installation of mysql server)

- sudo systemctl start mysql (To start the mysql server)

- sudo systemctl status mysql (To check the status of mysql if it is active or not)

*-* sudo mysql\_secure\_installation (Set password here)

- sudo mysql -u root -p (Enter into mysql monitor)

- sudo apt install php7.4 php7.4-gd php7.4-mysql php7.4-zip php7.4- fpm -y (Installation of php7.4)

- wget <https://wordpress.org/latest.zip> (Installation of Wordpress)

- ls (Will show one file as latest.zip)

- unzip latest.zip (unzip the latest.zip file)

- ls (Will show one file namely “wordpress”)

- cd wordpress/ (Enter into wordpress directory)

- ls (Will show files inside wordpress directory )

- sudo cp -r \* /var/www/html/

- sudo chown -R www-data:www-data /var/www/html/

- sudo systemctl restart nginx

- cd /etc/nginx/sites-enabled/

- ls (default)

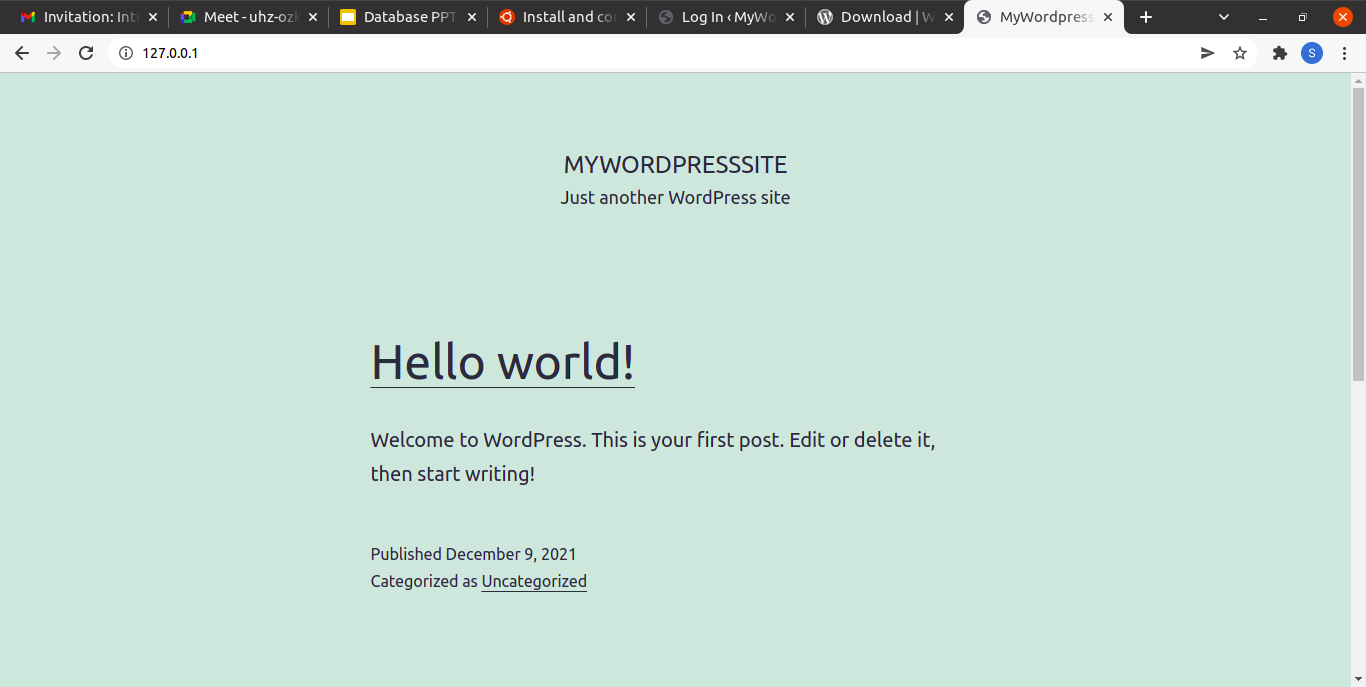
- ls (WORDPRESS)

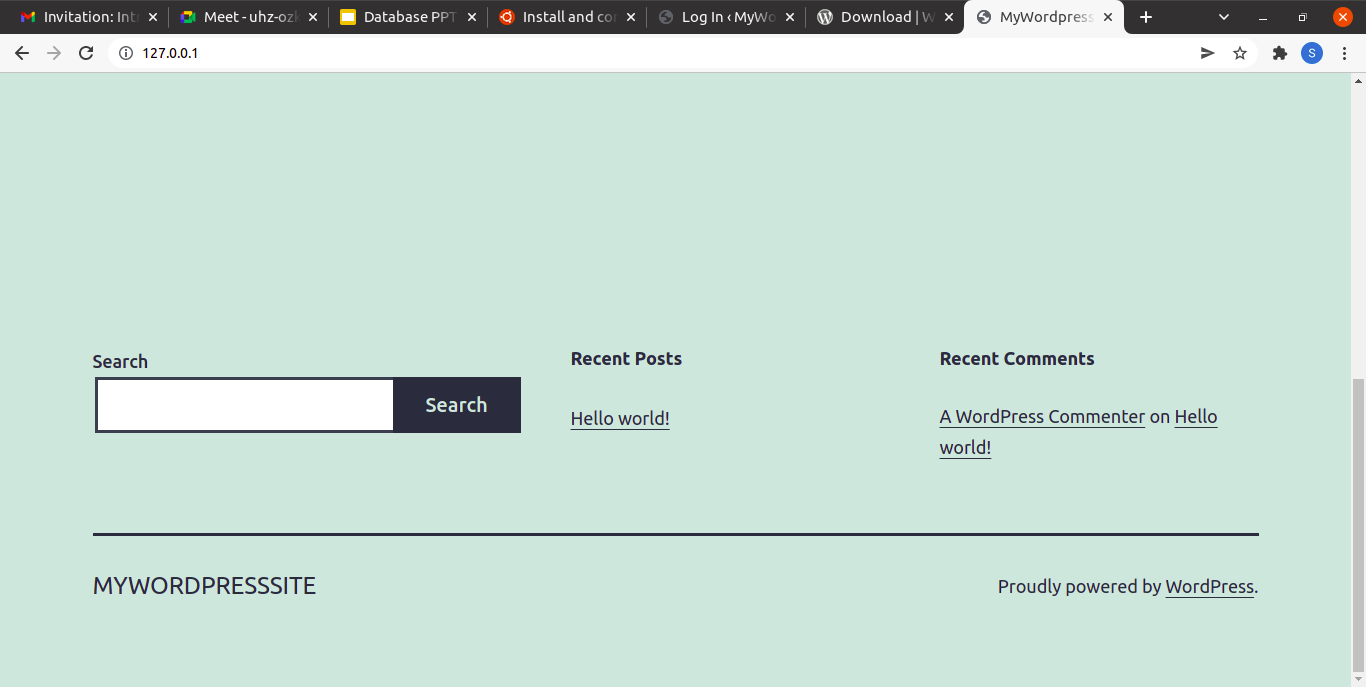
- sudo nano WORDPRESS

- sudo systemctl restart nginx (Again restart the nginx service)

- sudo nginx -t (It will check syntax of configurations )

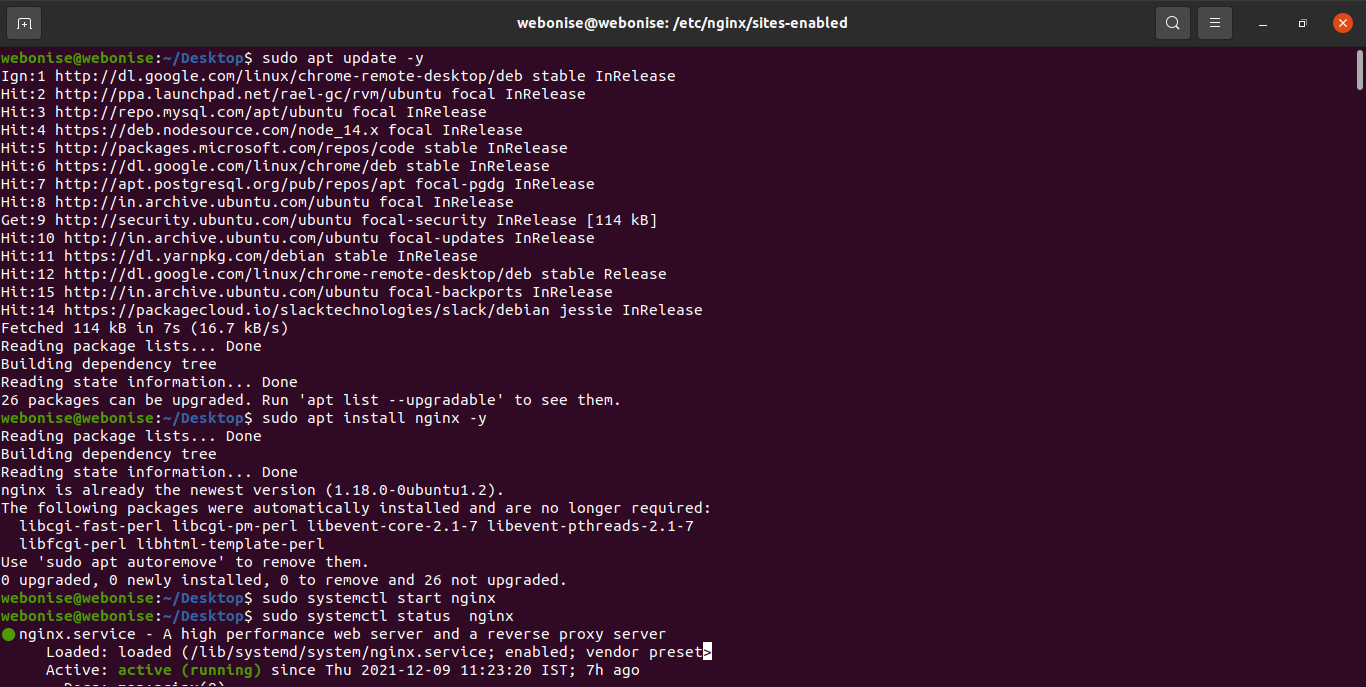
- Now go to chrome and refresh the webpage showing “Welcome to nginx and it will show wordpress window . Click continue and then Run installation. Make changes as per created database. And continue at last it will show wordpress site home page as below.

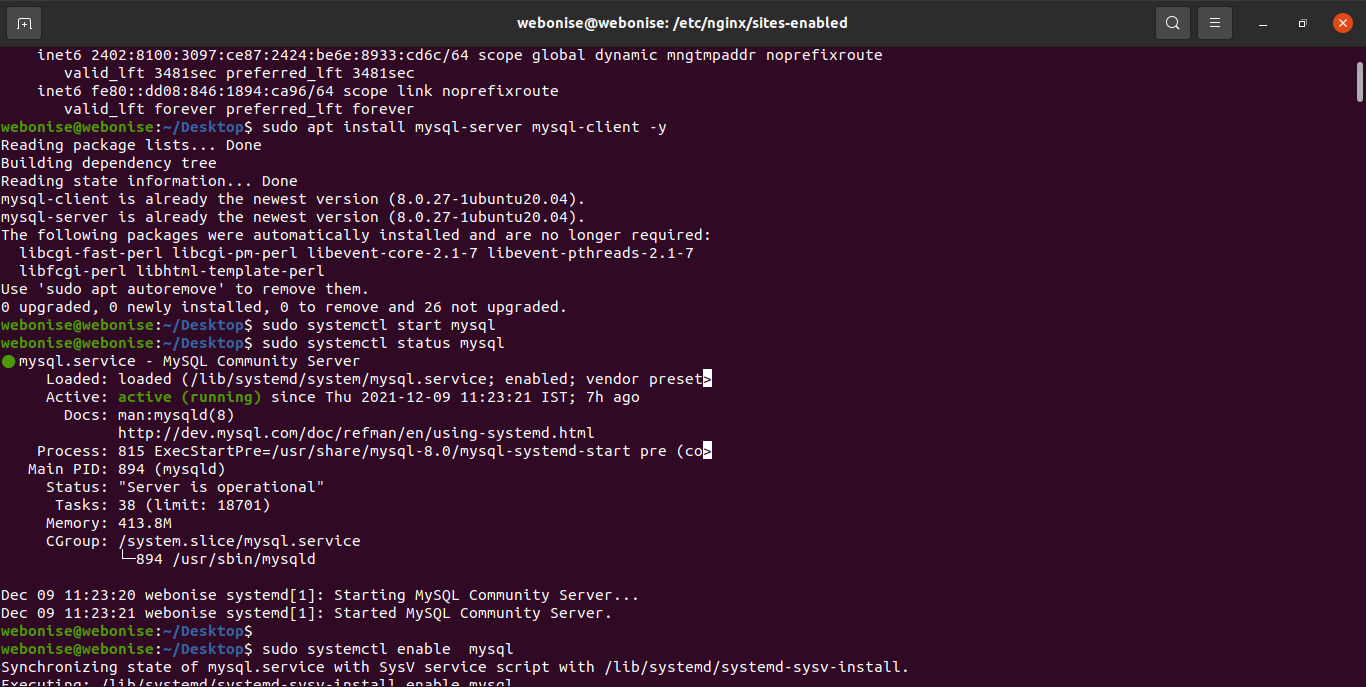




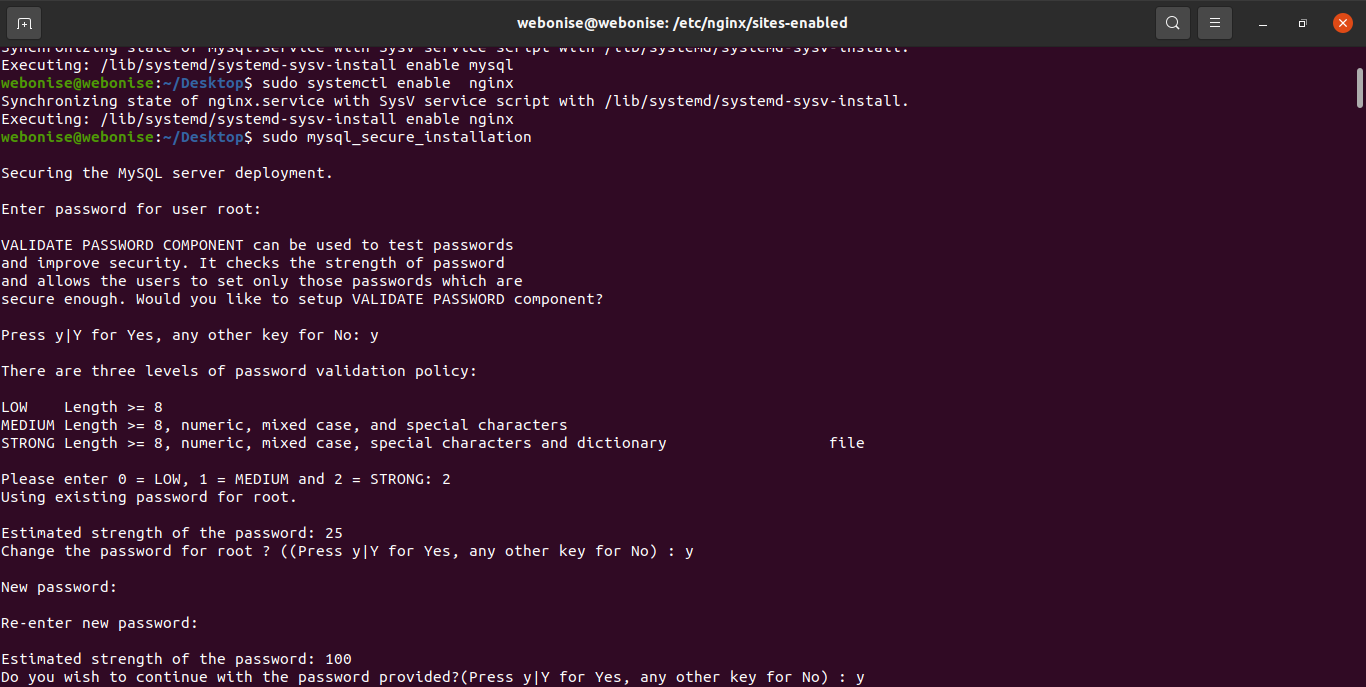
**Screenshots of Terminal while installation of Wordpress :**

**1st:**

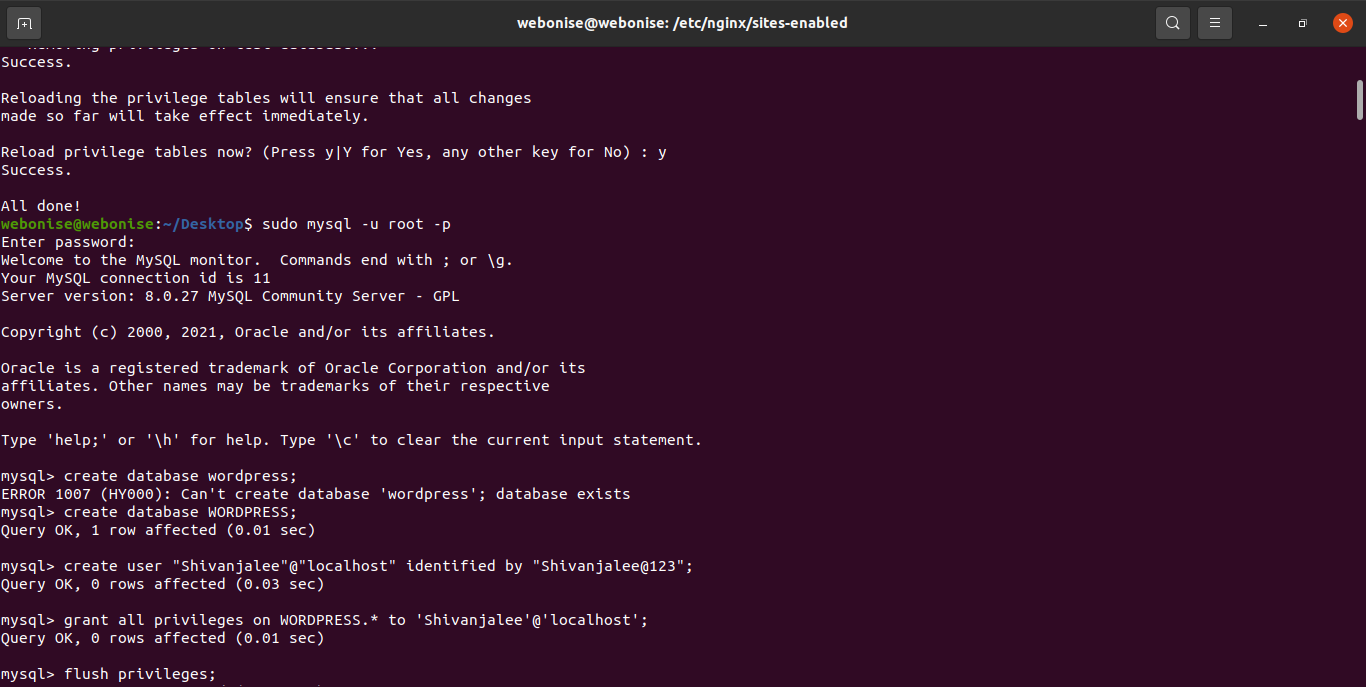


**2nd:**

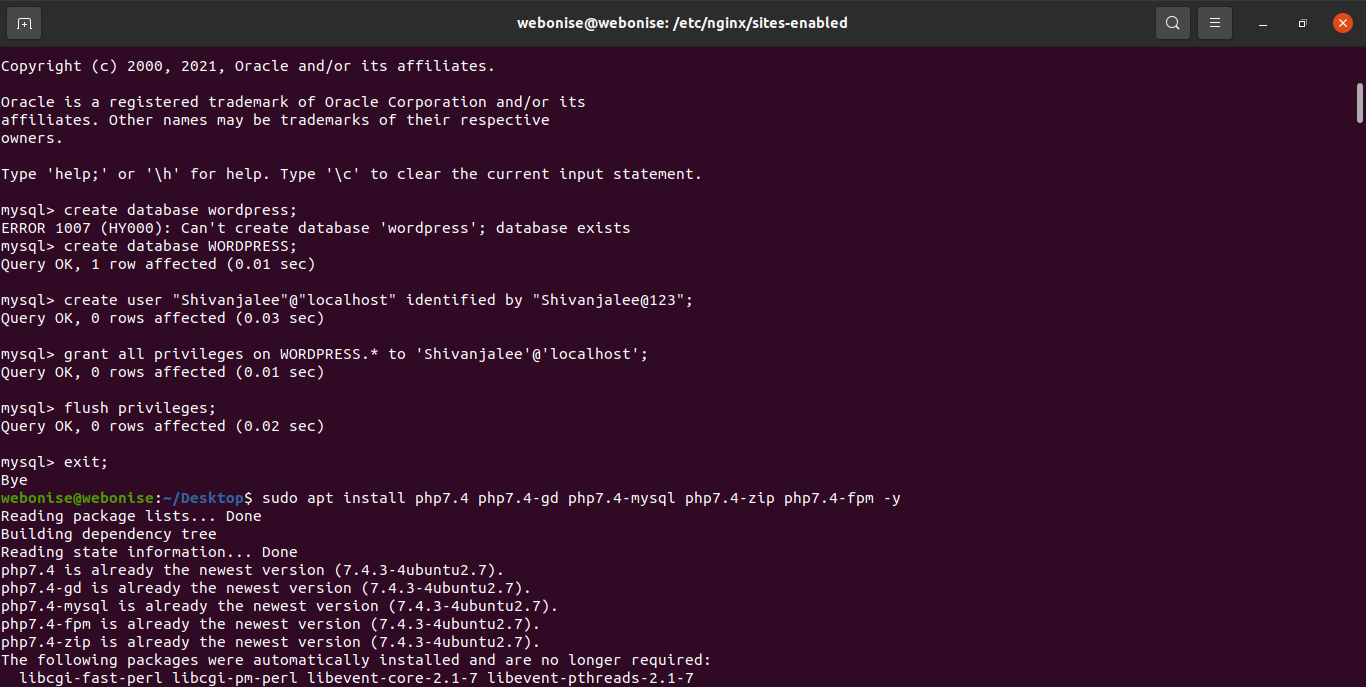
**3rd:**



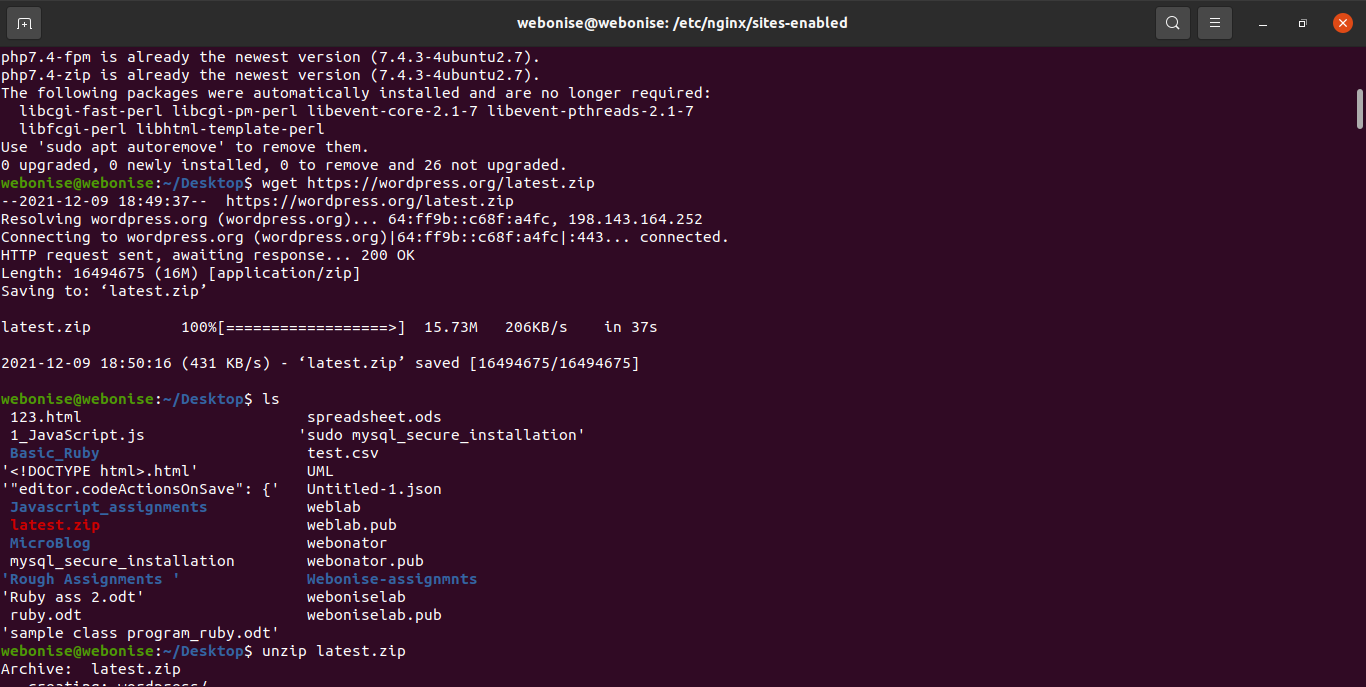
**4th:**



**5th:**



**6th:**



**7th:**

