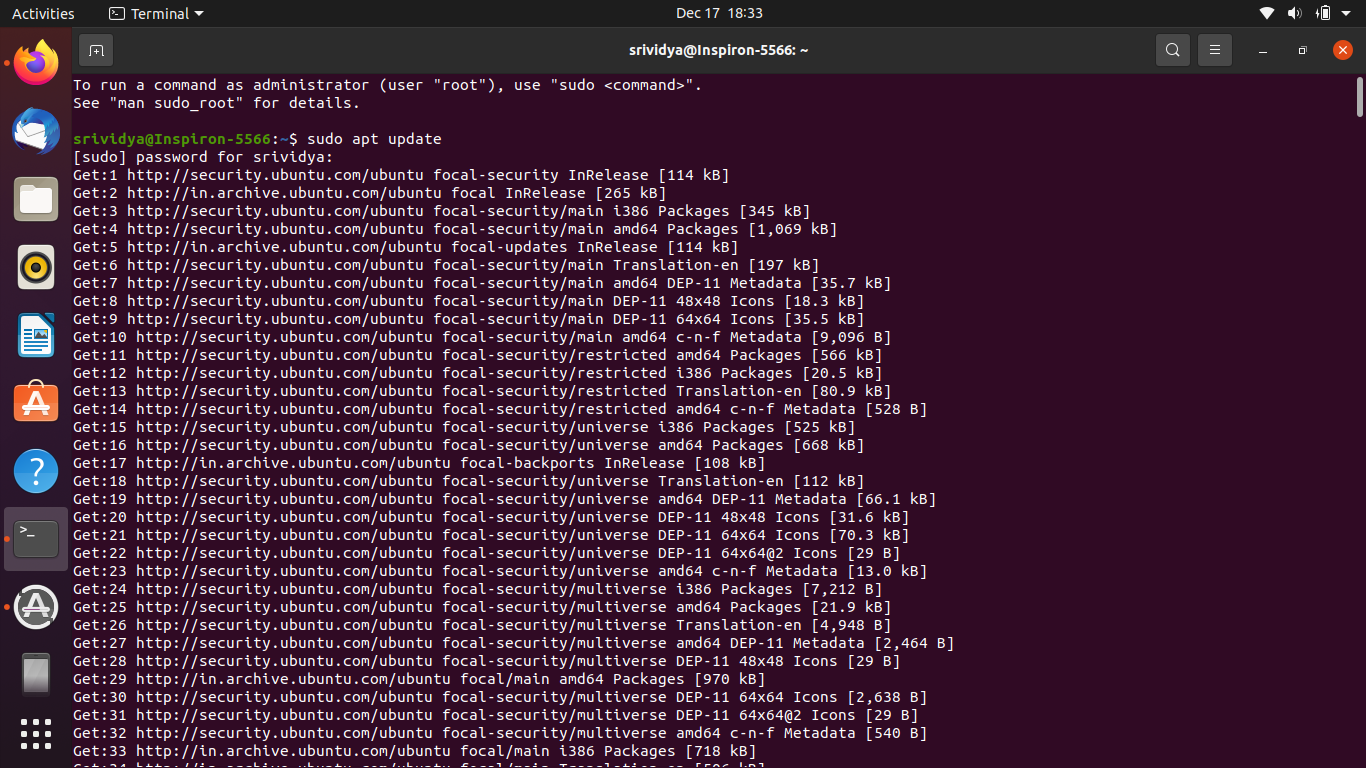
Installation of MySql



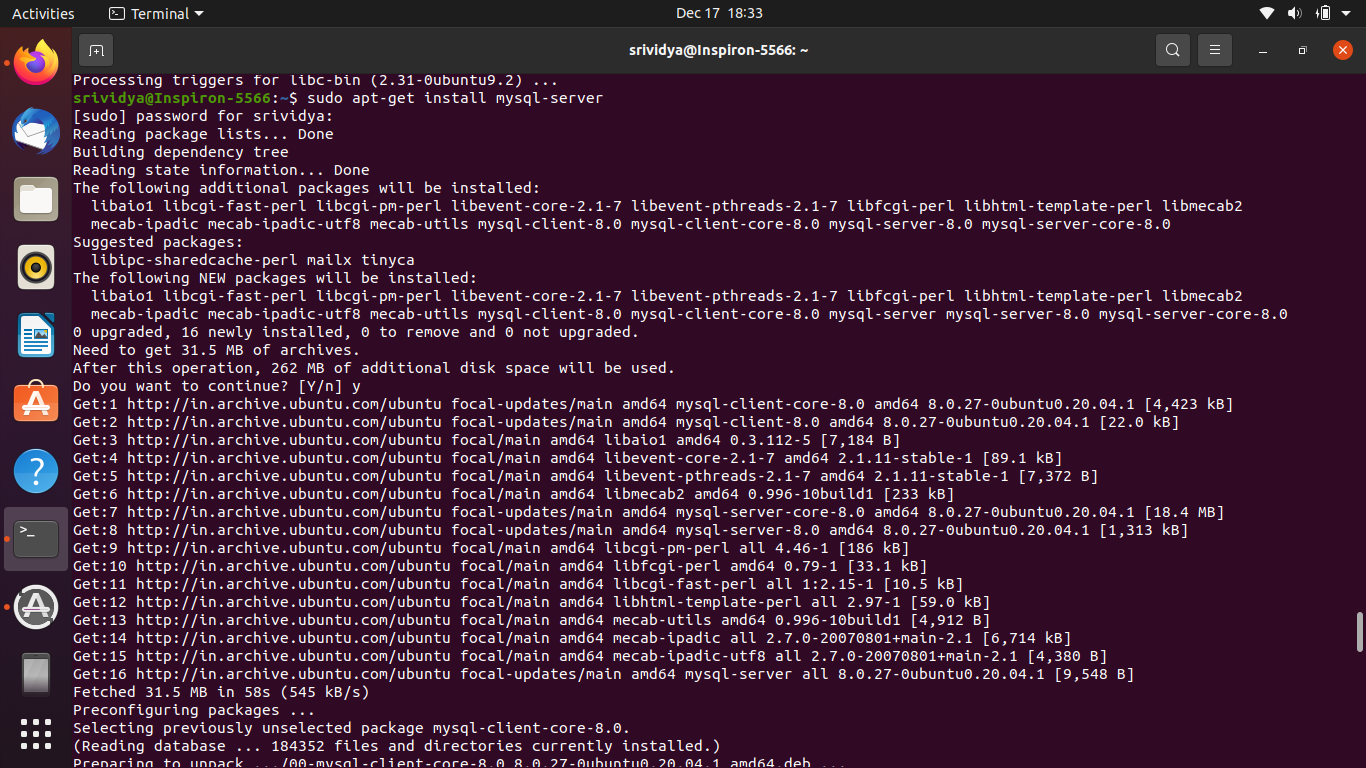
$sudo apt update

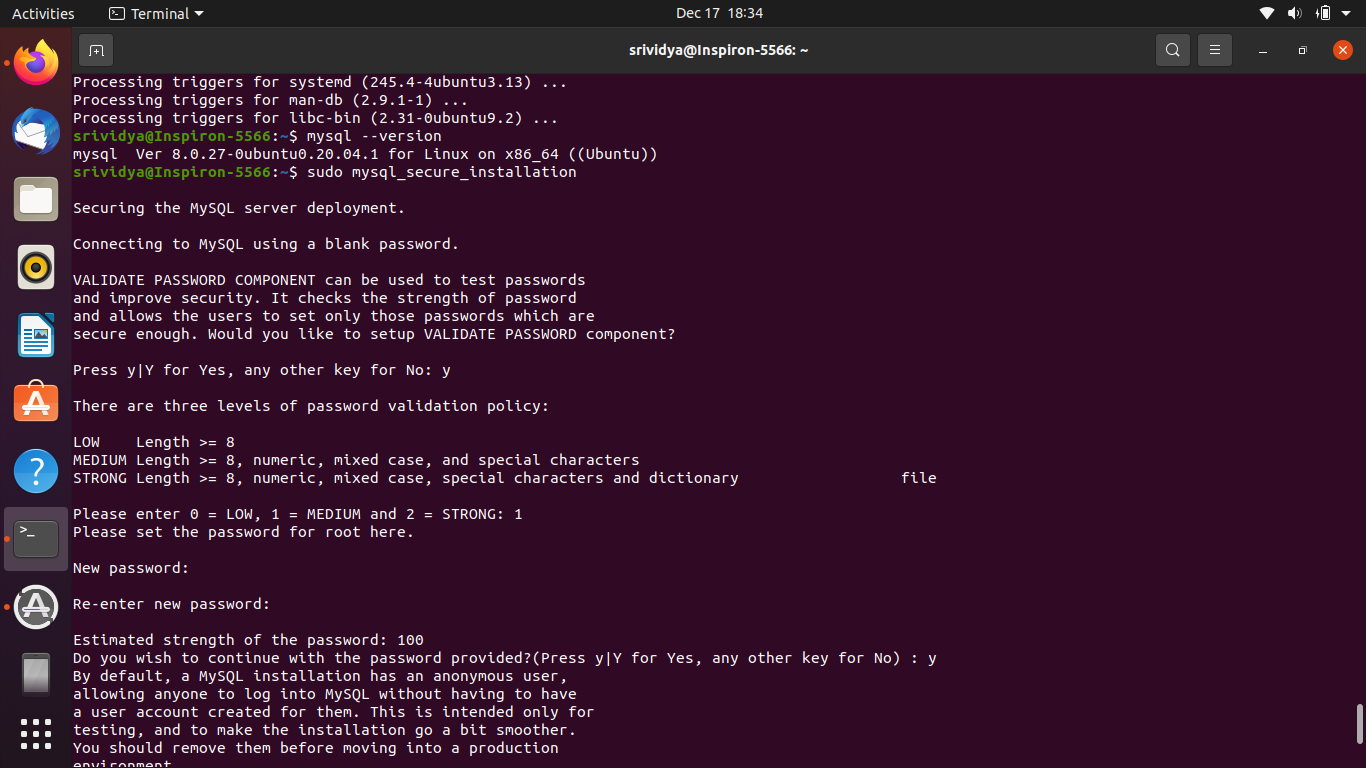
$sudo apt upgrade

# 

# $sudo apt-get install mysql-server

* It will install the mysql on ubuntu

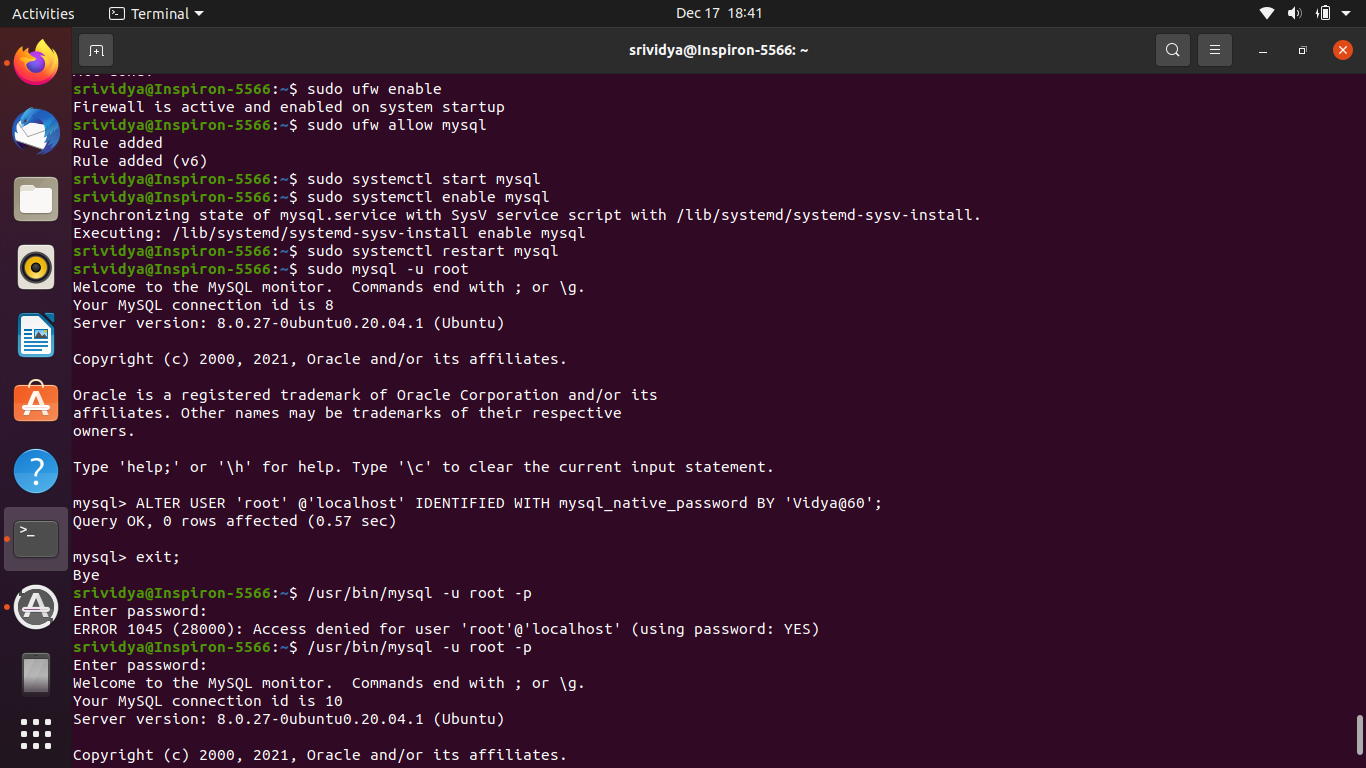




$sudo mysql\_secure\_installation

* You can set your password for mysql
* By choosing given options like strong or weak

### 



Follow the below steps:-

$sudo ufw enable

$sudo ufw allow mysql

$sudo systemctl start mysql

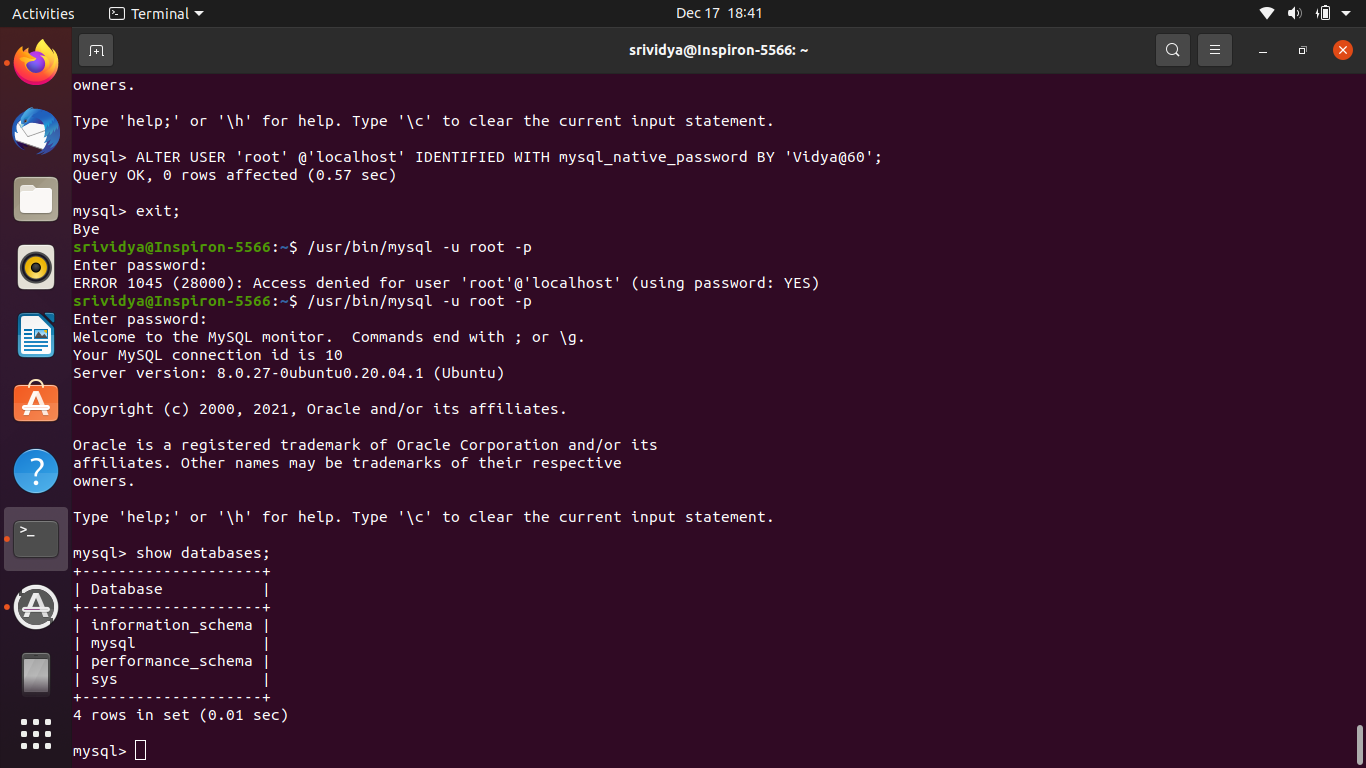
$sudo systemctl restart mysql

$sudo mysql -u root

mysql> ALTER USER ‘root’ @’localhost’ IDENTIFIED WITH mysql\_native\_password BY ‘your password’;

mysql> exit;

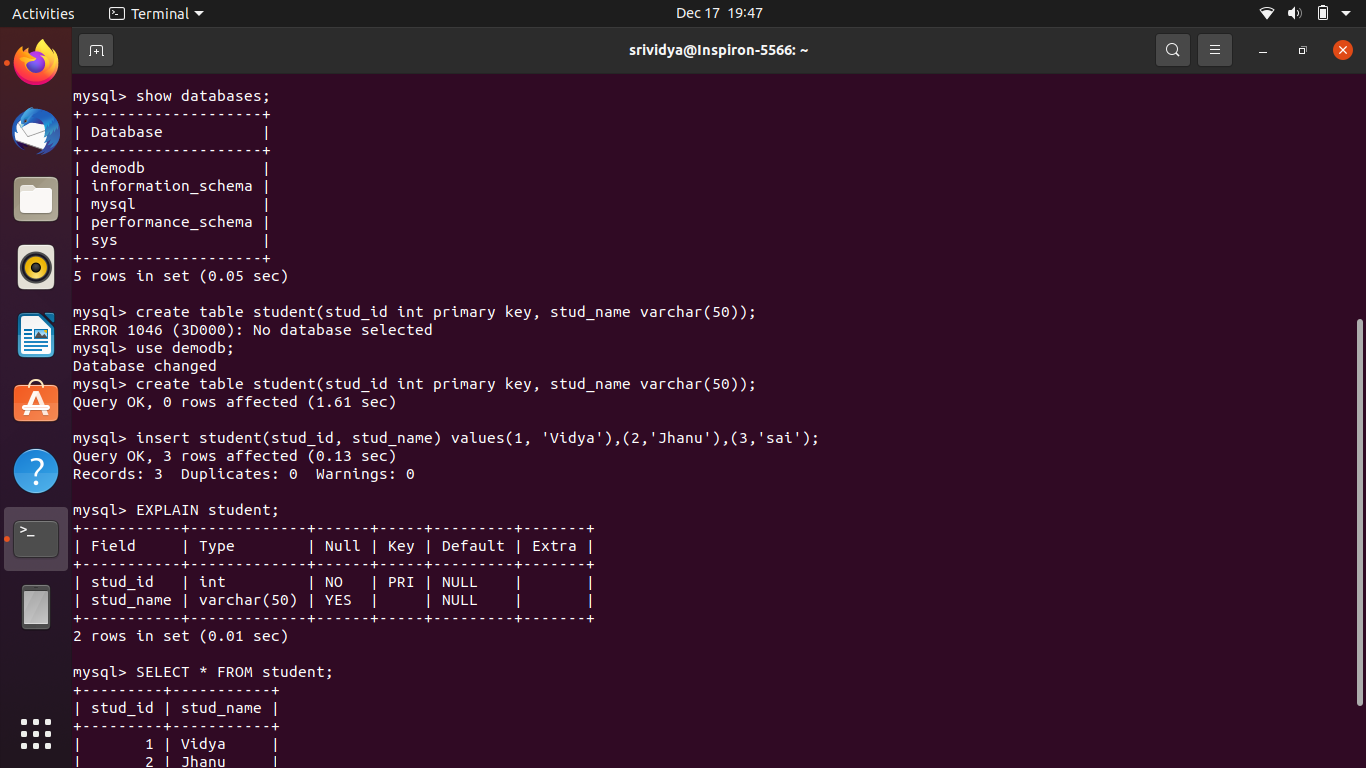
/usr/bin/mysql -u root -p



### After the above steps u can proceed with mysql:

mysql>show databases;

mysql>CREATE DATABASE demodb;



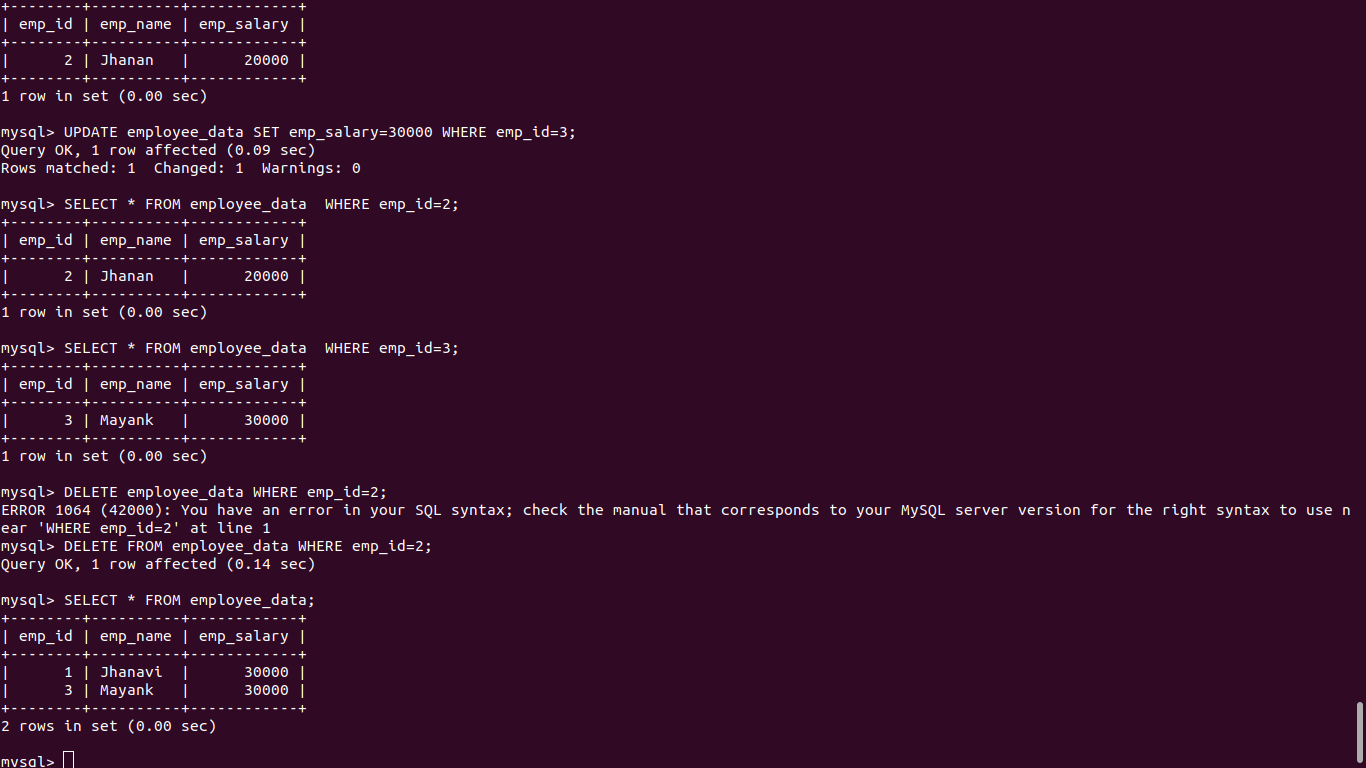
mysql>CREATE TABLE student(stud\_id INT PRIMARY KEY, stud\_name VARCHAR(50));

mysql> EXPLAIN student;

mysql>INSERT INTO student(stud\_id , stud\_name) VALUES(1,’Vidya’),(2,’Jhanu’),(3,’Pavi’);

### 

## CRUD Operations On Terminal



mysql> UPDATE table\_name SET column\_name WHERE column\_name=value

* We can update the data using UPDATE query

mysql> DELETE table\_name WHERE column\_name=value

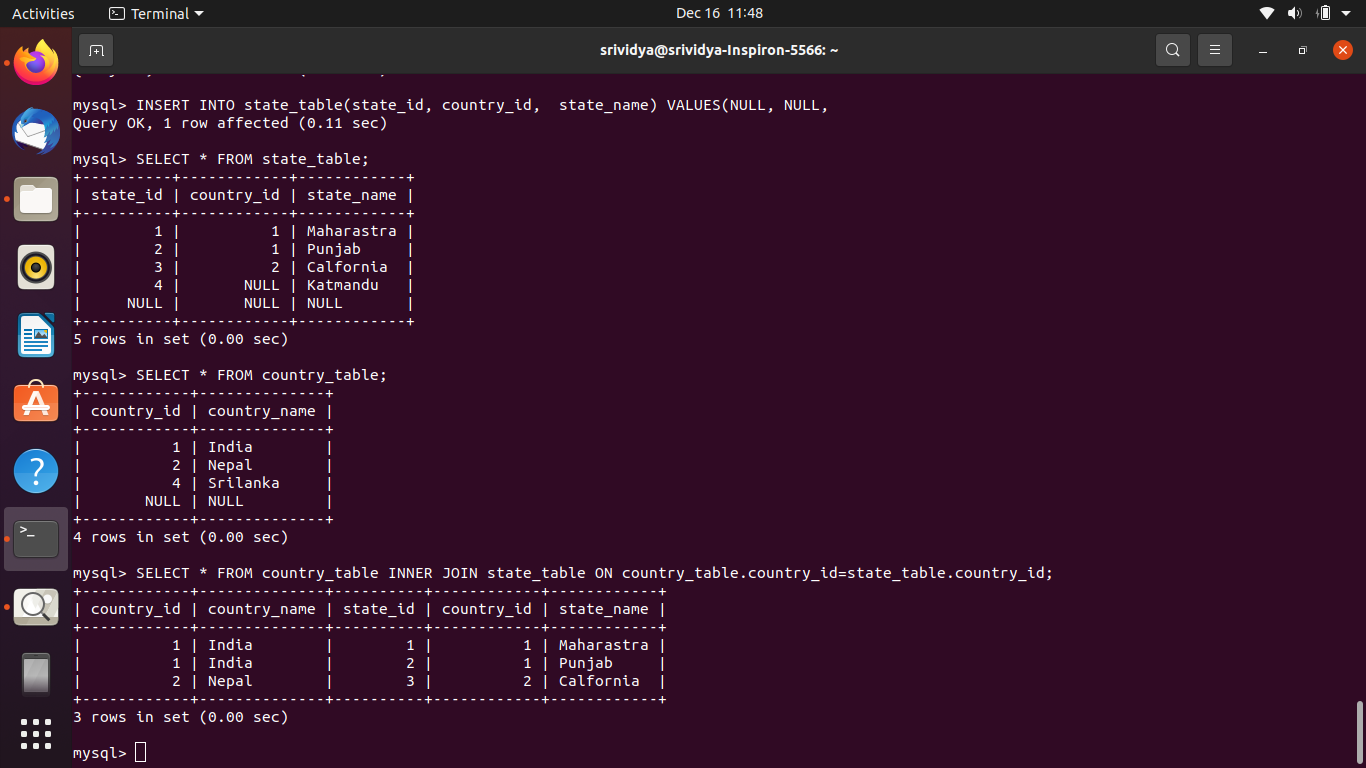
* You can delta data using DELETE query

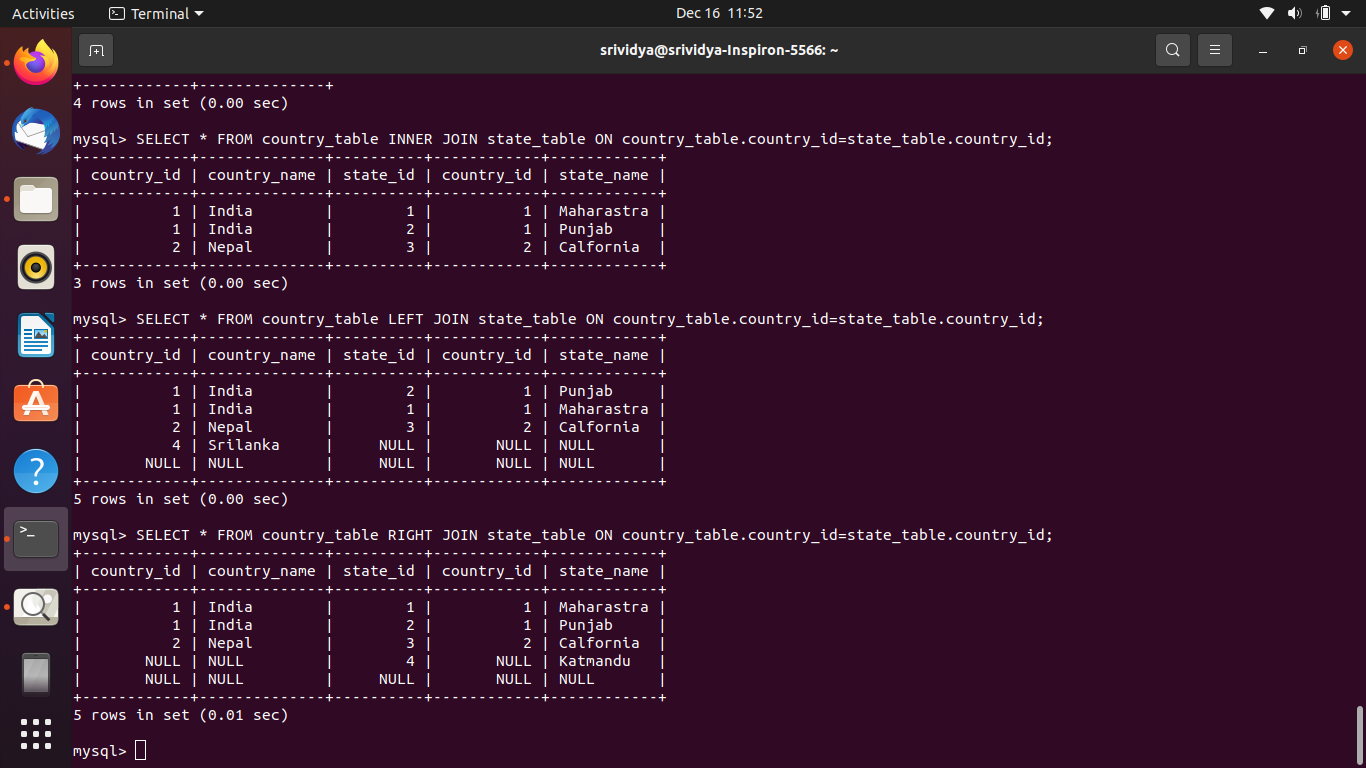
mysql> SELECT \*FROM table\_name

* Reading data using above query

## Joins:-

* Inner join
* Left join
* Right join
* Outer join





mysql> SELECT \* FROM country\_table INNER JOIN state\_table ON country\_table.country\_id=state\_table.country\_id;

mysql> SELECT \* FROM country\_table LEFT JOIN state\_table ON country\_table.country\_id=state\_table.country\_id;

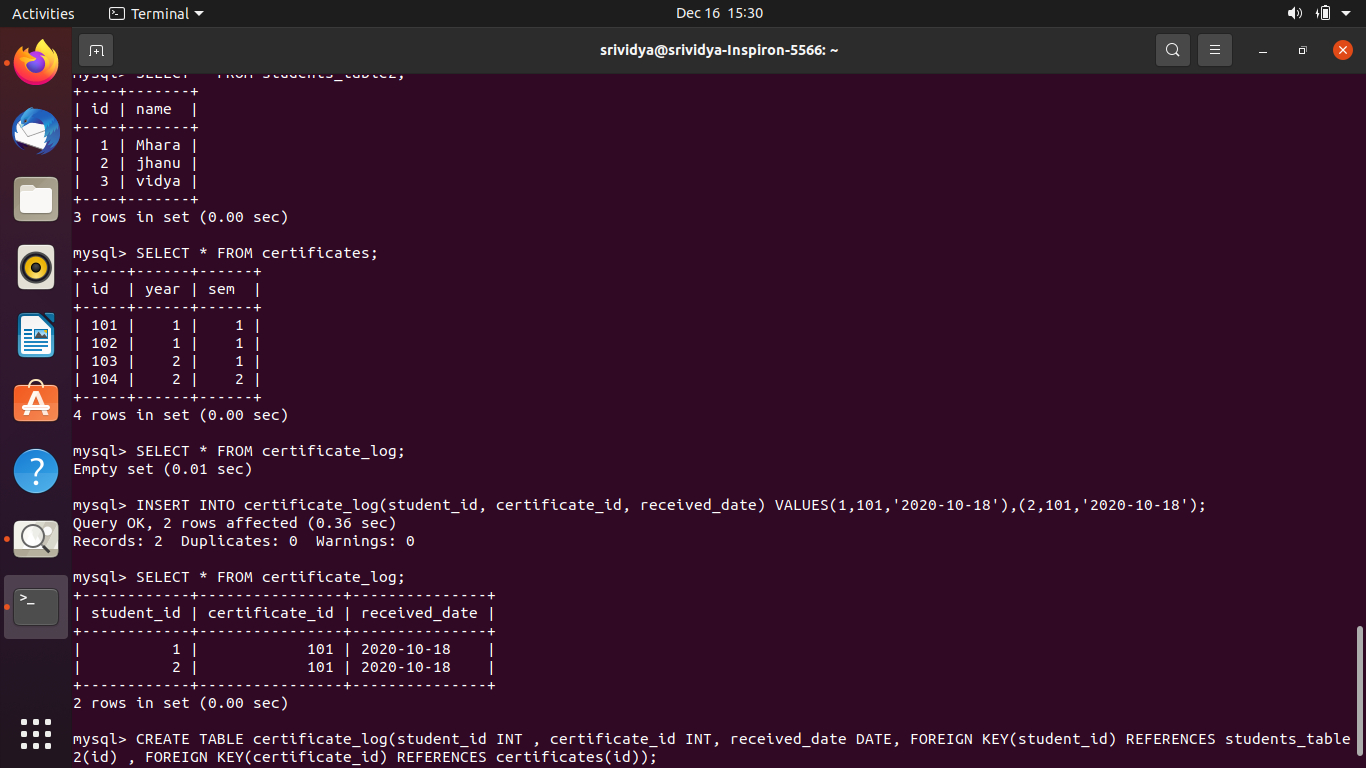
mysql> SELECT \* FROM country\_table RIGHT JOIN state\_table ON country\_table.country\_id=state\_table.country\_id;

mysql> SELECT \* FROM country\_table FULL OUTER JOIN state\_table ON country\_table.country\_id=state\_table.country\_id;

## Primary Key and ForeignKey

CREATE TABLE students\_table2(id INT PRIMARY KEY, name VARCHAR(50));

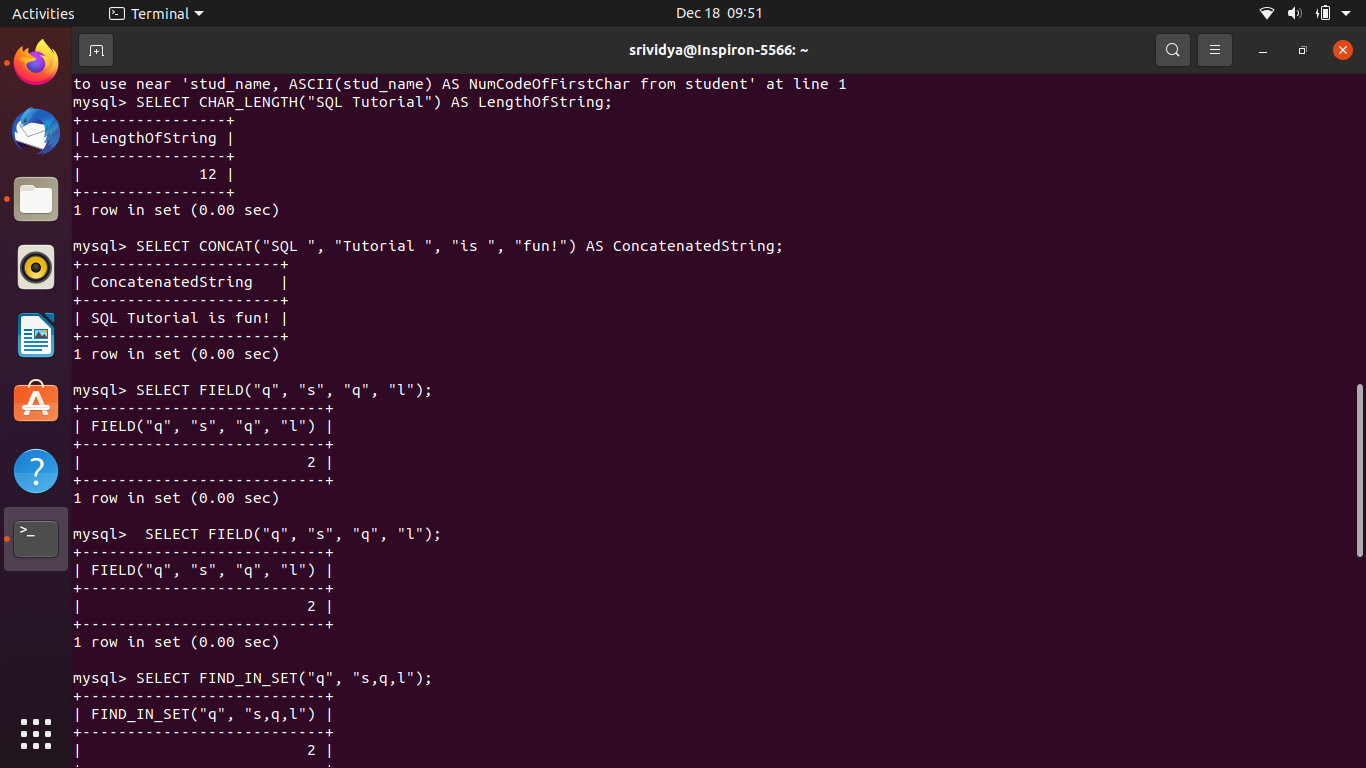
INSERT INTO students\_table2(id, name) VALUES(1,’Vidya’),(2,’Jhanu’),(3,’Pavi’);



CREATE TABLE certificate\_log(student\_id INT, certificate\_id INT, FOREGIN KEY(student\_id) REFERENCES students\_table2(id));

INSERT INTO certificate\_log(student\_id, certificate\_id) VALUES(1,101),(2,102),(3,104);

## Functions:-



mysql> SELECT CHAR\_LENGTH("SQL Tutorial") AS LengthOfString;

mysql> SELECT CONCAT("SQL ", "Tutorial ", "is ", "fun!") AS ConcatenatedString;

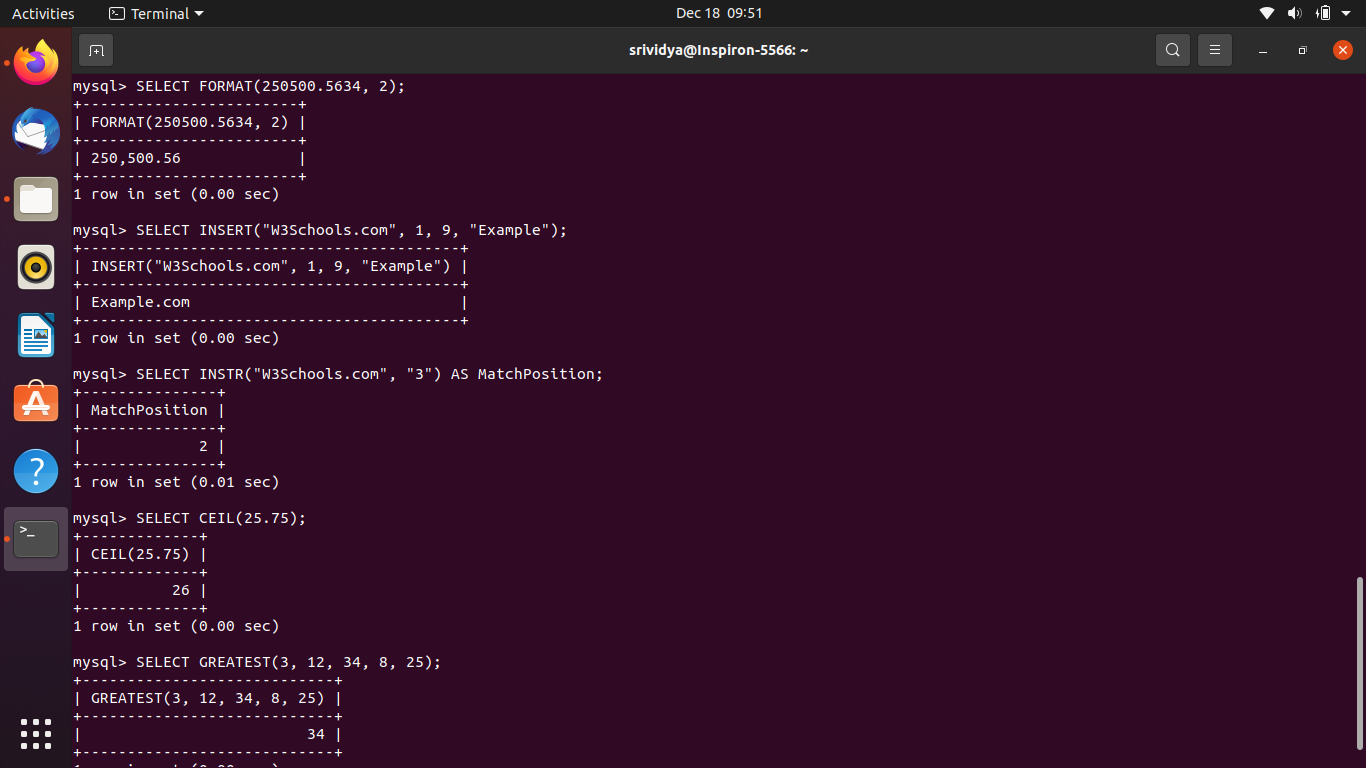
mysql> SELECT FIELD("q", "s", "q", "l");

mysql> SELECT FIND\_IN\_SET("q", "s,q,l");

mysql> SELECT FORMAT(250500.5634, 2);

mysql> SELECT INSERT("W3Schools.com", 1, 9, "Example");

mysql> SELECT INSTR("W3Schools.com", "3") AS MatchPosition;



mysql> SELECT CEIL(25.75);

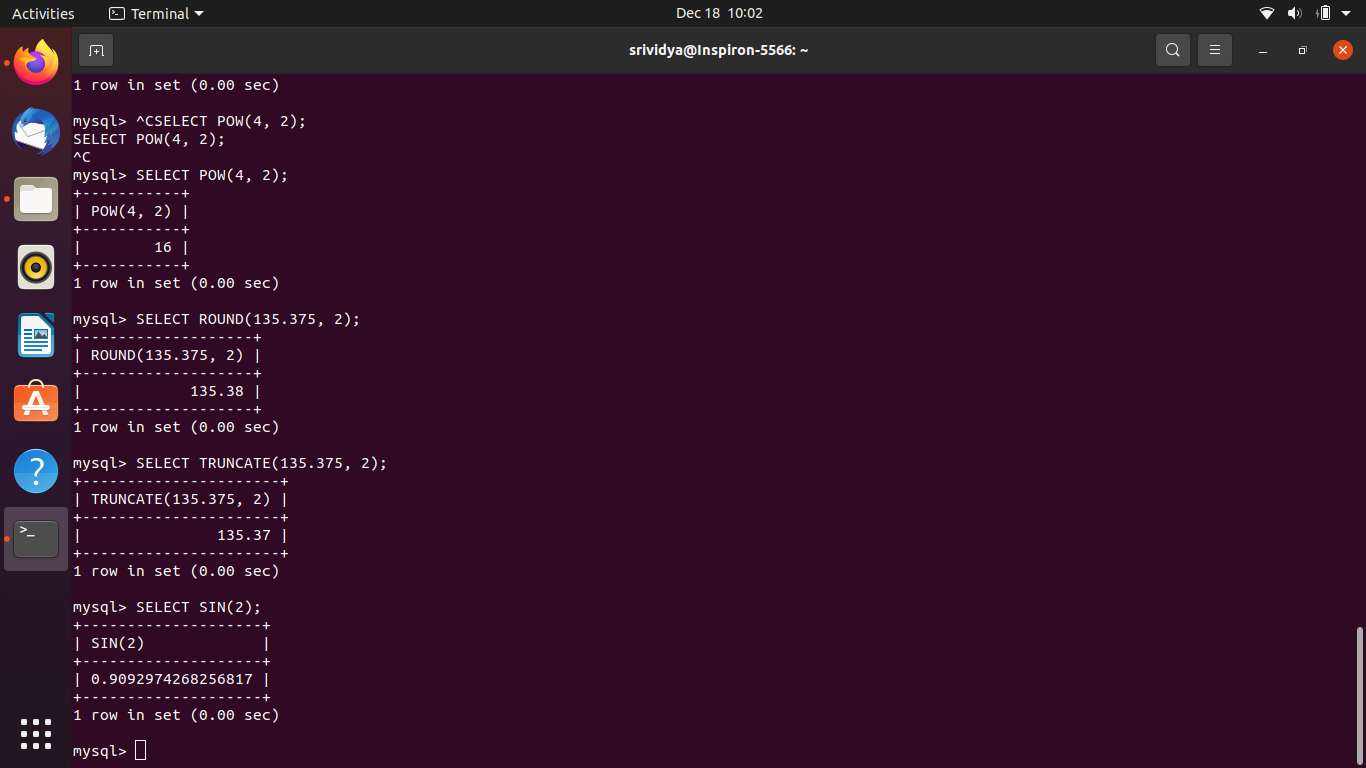
mysql> SELECT GREATEST(3, 12, 34, 8, 25);

mysql> SELECT POW(4, 2);

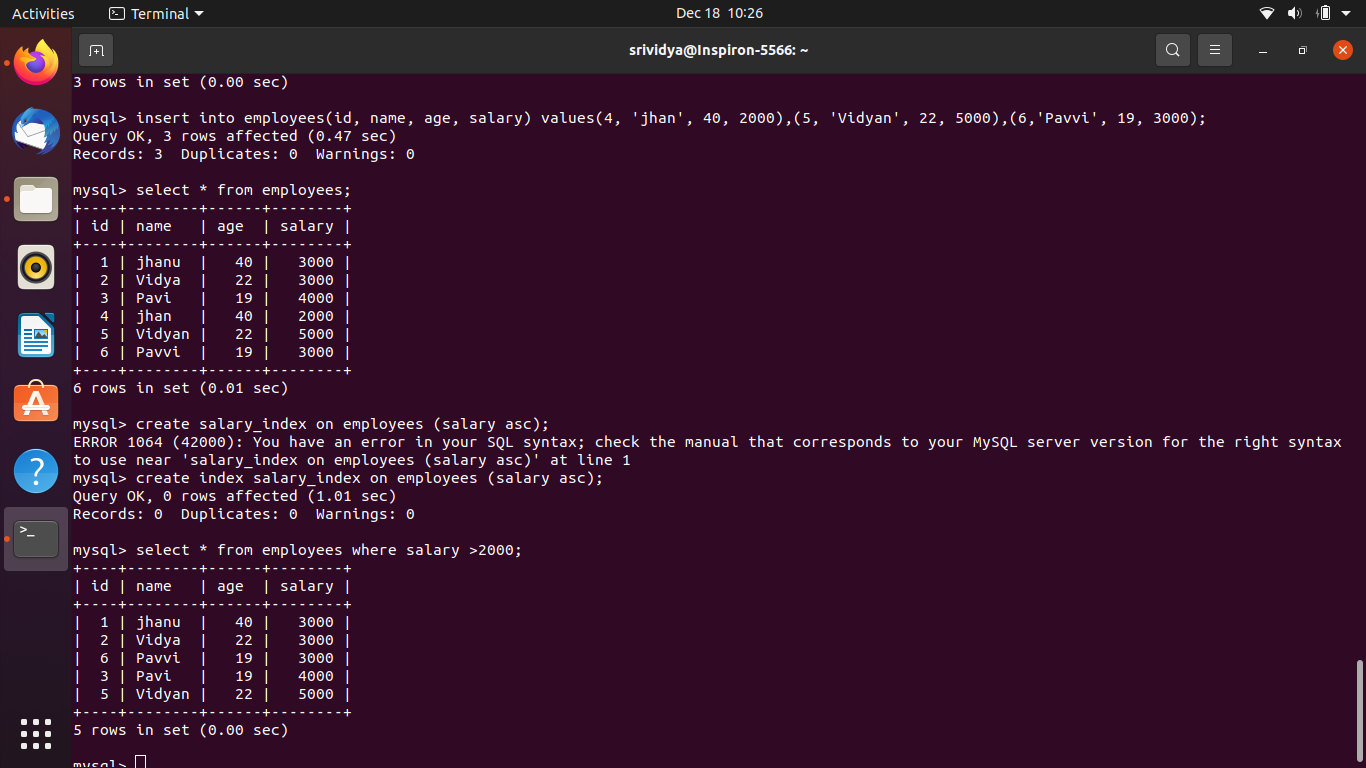
mysql> SELECT ROUND(135.375, 2);

mysql> SELECT TRUNCATE(135.375, 2);

mysql> SELECT SIN(2);



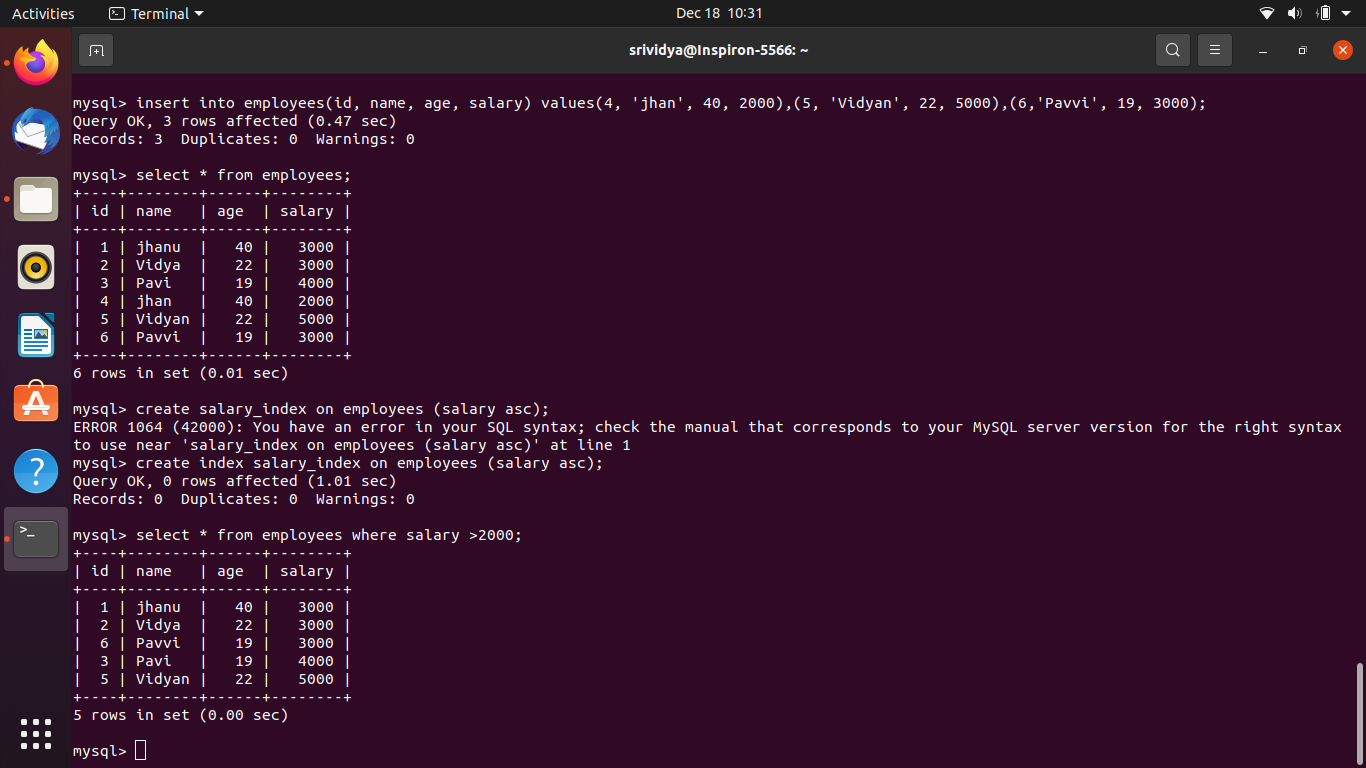
## Index:-



mysql> select \* from employees;

mysql> create index salary\_index on employees (salary asc);

mysql> select \* from employees where salary >2000;



## View:-

mysql> create view my\_view as select id,name,age from employees;

mysql> select \* from my\_view;

