***TASK 3:-***

* **CREATE THE TABLE STUDENT:-**

**Name- student.sql**

CREATE TABLE student (

student\_id INT AUTO\_INCREMENT PRIMARY KEY,

first\_name VARCHAR(100) NOT NULL,

last\_name VARCHAR(100) NOT NULL,

date\_of\_birth DATE,

email VARCHAR(100) UNIQUE

);

* **INSERT DATA INTO TABLE STUDENT:-**

INSERT INTO student (first\_name, last\_name, date\_of\_birth, email)

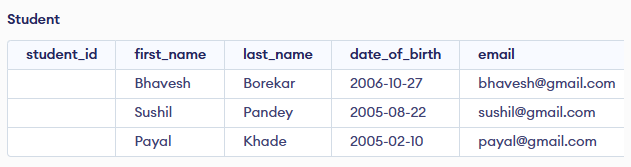
VALUES ('Bhavesh', 'Borekar', '2006-10-27', 'bhavesh@gmail.com'),

('Sushil', 'Pandey', '2005-08-22', 'sushil@gmail.com'),

('Payal', 'Khade', '2005-02-10', 'payal@gmail.com');

* **SHOW THE TABLE STUDENT**

SELECT \* FROM student;



* **CREATE TABLE IN POSTRESQL:-**

CREATE TABLE student (

student\_id SERIAL PRIMARY KEY,

first\_name VARCHAR(100) NOT NULL,

last\_name VARCHAR(100) NOT NULL,

date\_of\_birth DATE,

email VARCHAR(100) UNIQUE

);

* **INSERT DATA INTO TABLE STUDENT:-**

INSERT INTO student (first\_name, last\_name, date\_of\_birth, email)

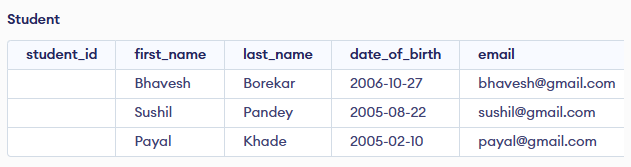
VALUES ('Bhavesh', 'Borekar', '2006-10-27', 'bhavesh@gmail.com'),

('Sushil', 'Pandey', '2005-08-22', 'sushil@gmail.com'),

('Payal', 'Khade', '2005-02-10', 'payal@gmail.com');

* **SHOW THE TABLE STUDENT**

SELECT \* FROM student;



* **Exploring the data into CSV file**

SELECT \* FROM student

INTO OUTFILE '/ C:\Users\User\Desktop/student.csv'

FIELDS TERMINATED BY ','

ENCLOSED BY '"'

LINES TERMINATED BY '\n';

* **Importing data from postgresql:**

COPY student(student\_id, first\_name, last\_name, date\_of\_birth, email)

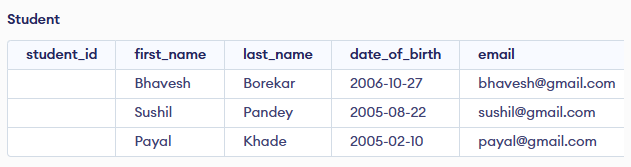
FROM '// C:\Users\User\Desktop/student.csv'

DELIMITER ','

CSV HEADER;

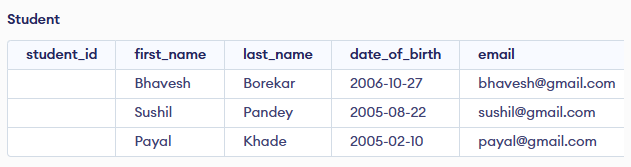
* **Verify Data in MySQL**

SELECT \* FROM student;



* **Verify Data in PostgreSQL**:

SELECT \* FROM student;



The data is found same so the process of migration is successfully completed.

### ****Data Migration Using pgLoader****

1. **Export Data from MySQL**

mysqldump -u mysql\_user -p mysql\_db student > student\_data.sql

1. **Import Data into PostgreSQL**:

pgloader mysql://mysql\_user:mysql\_pass@localhost/mysql\_db postgresql://postgres\_user:postgres\_pass@localhost/postgres\_db

### 

### ****Convert Stored Procedures and Functions****

### ****MySQL Stored Function****:

#### DELIMITER //

#### CREATE FUNCTION get\_user\_by\_dob(date\_of\_birth DATE) RETURNS VARCHAR(100)

#### BEGIN

#### DECLARE user\_name VARCHAR(100);

#### SELECT first\_name INTO user\_name FROM student WHERE date\_of\_birth = date\_of\_birth;

#### RETURN user\_name;

#### END //

#### DELIMITER ;

#### 2. ****PostgreSQL Equivalent****:

#### CREATE FUNCTION get\_user\_by\_dob(date\_of\_birth DATE) RETURNS VARCHAR(100) AS $$

#### BEGIN

#### RETURN (SELECT first\_name FROM student WHERE date\_of\_birth = date\_of\_birth);

#### END;

#### $$ LANGUAGE plpgsql;

#### mysql:-

#### SELECT first\_name FROM student

#### WHERE date\_of\_birth = '2006-10-27';



#### ****In PostgreSQL:****

#### SELECT first\_name FROM student

#### WHERE date\_of\_birth = '2006-10-27';



* ***In MySQL:***

SELECT COUNT(\*) FROM student;



#### ****In PostgreSQL:****

SELECT COUNT(\*) FROM student;



### ****Final Verification****

SELECT \* FROM student;

#### 