**PostgreSQL Assignment-1**

- Create Postgres DB in the local machine and create some tables. feed some dummy data

- Prepare query file to create table, view, and create constraints on a parent and child table

- Prepare query to Join on parent and child tables.

-- Creating a database : Assignment1

CREATE DATABASE Assignment1

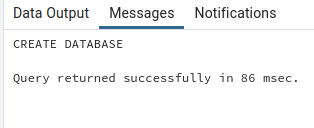
WITH

OWNER = postgres

ENCODING = 'UTF8'

CONNECTION LIMIT = -1

IS\_TEMPLATE = False;



-- Creating table 1 : trainee

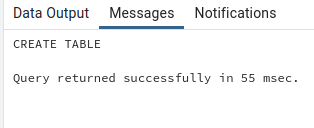
CREATE TABLE trainee(

trainee\_id SERIAL PRIMARY KEY,

trainee\_name VARCHAR(150),

trainee\_stack VARCHAR(150)

);



-- inserting data into : trainee table

INSERT INTO trainee

(trainee\_name,trainee\_stack)

VALUES

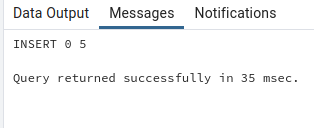
('Diwakar','java'),

('Kamran','React'),

('Hemaxi','PHP'),

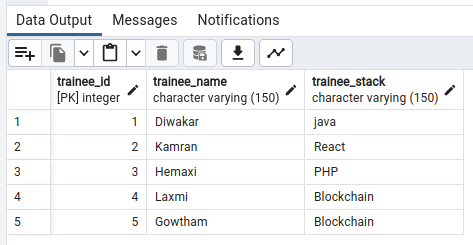
('Laxmi','Blockchain'),

('Gowtham','Blockchain');



-- Viewing all data of : trainee table

SELECT \* FROM trainee;



-- Creating table : course

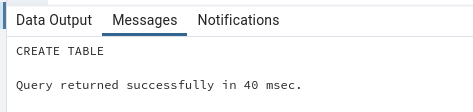
CREATE TABLE course(

course\_id SERIAL PRIMARY KEY,

course\_name VARCHAR(150),

course\_fee BIGINT

);



-- INSERT INTO : course table

INSERT INTO course

(course\_name,course\_fee)

VALUES

('JAVA',12000),

('HTML',5000),

('CSS',6000),

('Java Script',8000),

('Spring Boot',15000),

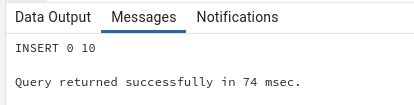
('Hibernate',10000),

('Unit Testing',12000),

('React',50000),

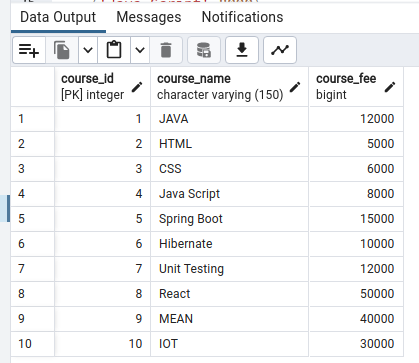
('MEAN',40000),

('IOT',30000);



-- VIEWING ALL DATA : course table

SELECT \* FROM course;



-- CREATING TABLE : student table

CREATE TABLE student(

student\_id SERIAL PRIMARY KEY,

student\_name VARCHAR(150) NOT NULL,

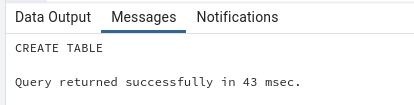
student\_age INT NOT NULL,

student\_email VARCHAR(150) UNIQUE,

student\_course\_id INT,

FOREIGN KEY(student\_course\_id) REFERENCES course(course\_id)

);



-- INSERTING DATA : student table

INSERT INTO student

(student\_name,student\_age,student\_email,student\_course\_id)

VALUES

('Diwakar Kumar',23,'diwakar@gmail.com',5),

('Hinal Pachori',22,'hinal@gmail.com',1),

('Nimit Mandaviya',23,'nimit@gmail.com',6),

('Shruti Pandey',25,'shruti@gmail.com',7),

('Shailesh Darji',23,'shailesh@gmail.com',7),

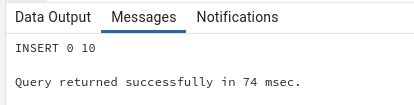
('Arpit Panchal',21,'arpit@gmail.com',6),

('Parth Solanki',22,'parth@gmail.com',6),

('Yash Tailor',26,'yash@gmail.com',1),

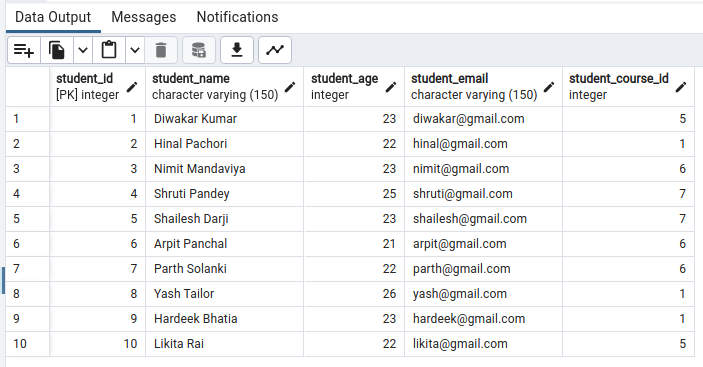
('Hardeek Bhatia',23,'hardeek@gmail.com',1),

('Likita [Rai',22,'likita@gmail.com',5](mailto:Rai',22,'likita@gmail.com',5));



-- VIEWING DATA : student table

SELECT \* FROM student;



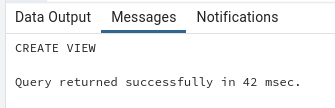
-- CREATING A VIEW : student table

CREATE OR REPLACE VIEW v\_student\_name AS

SELECT

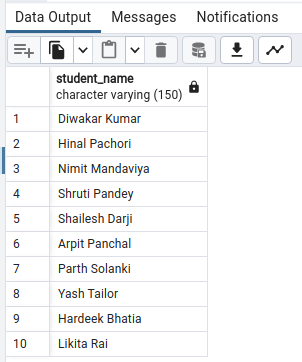
student\_name

FROM student;



-- VIEWING DATA FROM : v\_student\_name VIEW

SELECT \* FROM v\_student\_name;



-- PERFORMING INNER JOIN : on student & course table

SELECT

s.student\_id,

s.student\_name,

s.student\_email,

c.course\_name as "assigned\_course",

c.course\_fee as "course\_fee"

FROM student s

INNER JOIN course c ON c.course\_id = s.student\_course\_id;

