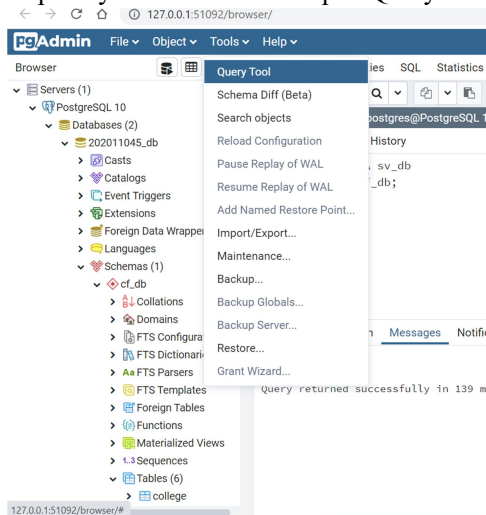| Lab – 1.10	COLLEGE_FEST_DATABASE
IT214 Database Management System, Autumn'2020; Instructor: minal_bhise@daiict, TA: 202011045@daiict.	

Objectives: I) Create tables using below given schema & DDL Scripts in Appendix A.

II) Load data into tables using csv files given in **College_Fest_Database.zip**

III) Run simple queries.

Submission: Each student team need to Upload a **single .pdf** file which will contain following things for all the queries listed in (III).

1) English query and SQL Query in the given sequence.
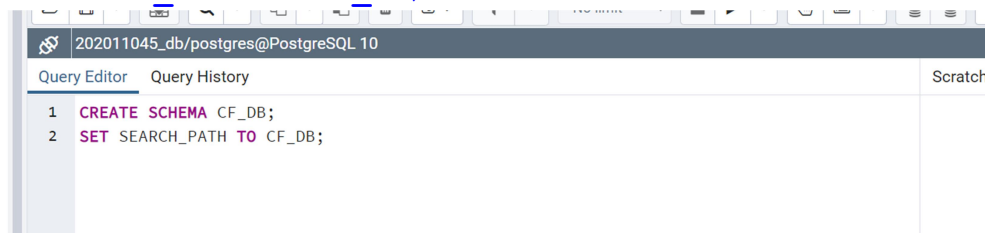2) Screenshot of results.
3) Count of tuples in the results.

I.   Create tables using below given schema:

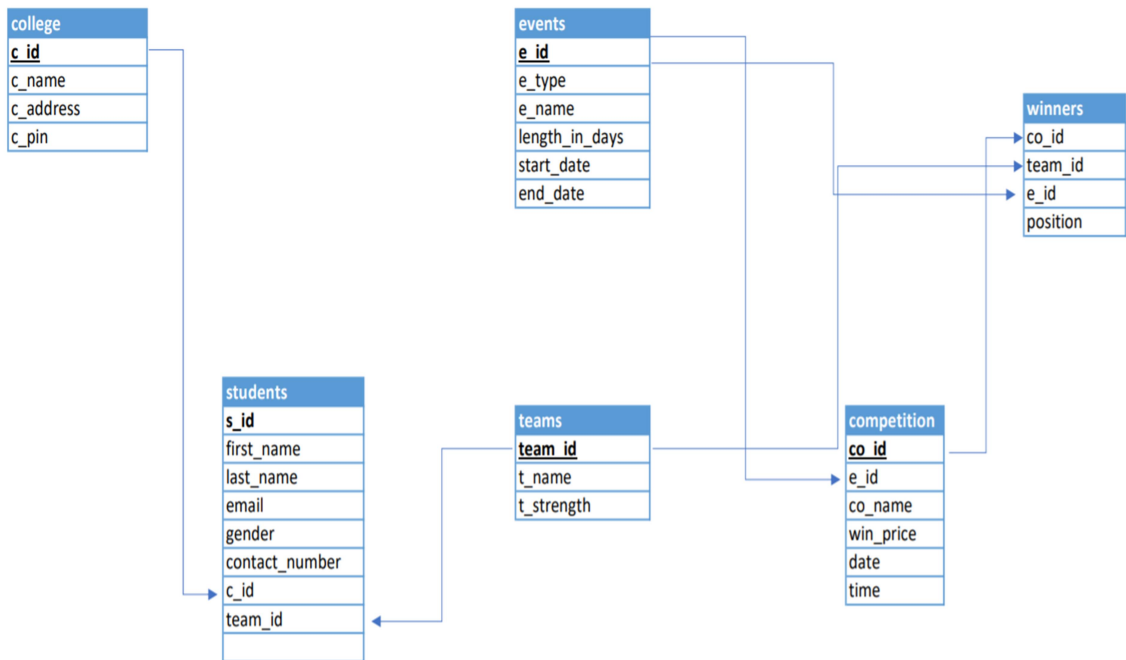a. Expand your Database => Open Query Tool window from Tool. or From SQL Shell.

b. Type following to create Schema.
```
CREATE SCHEMA CF_DB;
SET SEARCH_PATH TO CF_DB;
```


c. Table Schema Diagram. Find the DDL Scripts after the queries section III.

college

c_id	
c_name	
c_address	
c_pin	

events

e_id	
e_type	
e_name	
length_in_days	
start_date	
end_date	

winners

co_id	
team_id	
e_id	
position	

students

s_id	
first_name	
last_name	
email	
gender	
contact_number	
c_id	
team_id	

teams

team_id	
t_name	
t_strength	

competition

co_id	
e_id	
co_name	
win_price	
date	
time	

II. Load data into tables using csv files given in College_Fest_Database.zip

COPY SV_DB.teams(team_id,t_name,t_strength) FROM "C:\Users\patel\Desktop\dbms\College fest\csv_file\Teams.csv" DELIMITER ',' CSV HEADER;

III. Run simple queries.

1> Find names of Event whose type is Cultural Event.

2> Find the Event which is Start from 07-11-2019 date.

3> Find that how many Collages participate in College Fest.

4> Find out How many Competitions are In College Fest.

5> Give Name of male participants in College Fest.

6> Find How many teams are participating in College Fest.

7> Find out which competitions have highest price money.

8> Find the names of Students who are from "Indian Institute of Technology Chennai".

9> Find the teams Which have strength of 11.

10> Find names of "Synapse" competitions.

Appendix A: DDL Scripts to create tables.

----

1)

CREATE TABLE cf_db.college

(

   c_id integer NOT NULL,

   c_name text COLLATE pg_catalog."default" NOT NULL,

   c_address text COLLATE pg_catalog."default" NOT NULL,

   c_pin integer NOT NULL,

   CONSTRAINT "College_pkey" PRIMARY KEY (c_id)

)

2)

CREATE TABLE cf_db.competition

(

   co_id integer NOT NULL,

   e_id integer NOT NULL,

   co_name text COLLATE pg_catalog."default" NOT NULL,

   win_price integer NOT NULL,

   date date NOT NULL,

   "time" text COLLATE pg_catalog."default" NOT NULL,

   CONSTRAINT "COMPITION_pkey" PRIMARY KEY (co_id),

   CONSTRAINT "Event_id" FOREIGN KEY (e_id)

     REFERENCES cf_db.events (e_id) MATCH SIMPLE

```
        ON UPDATE CASCADE

        ON DELETE CASCADE

        NOT VALID

)

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

3)

CREATE TABLE cf_db.events

(

    e_id integer NOT NULL,

    e_type text COLLATE pg_catalog."default" NOT NULL,

    e_name text COLLATE pg_catalog."default" NOT NULL,

    length_in_days integer NOT NULL,

    start_date date NOT NULL,

    end_date date NOT NULL,

    CONSTRAINT "EVENTS_pkey" PRIMARY KEY (e_id)

)

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

4)

CREATE TABLE cf_db.students

(

    s_id integer NOT NULL,

    first_name text COLLATE pg_catalog."default" NOT NULL,

    last_name text COLLATE pg_catalog."default" NOT NULL,

    email text COLLATE pg_catalog."default" NOT NULL,

    gender text COLLATE pg_catalog."default" NOT NULL,

    contact_number text COLLATE pg_catalog."default" NOT NULL,

    c_id integer NOT NULL,

    team_id text COLLATE pg_catalog."default" NOT NULL,

    CONSTRAINT "USER_pkey" PRIMARY KEY (s_id),

    CONSTRAINT c_id FOREIGN KEY (c_id)

        REFERENCES cf_db.college (c_id) MATCH SIMPLE

        ON UPDATE CASCADE
```

ON DELETE CASCADE

    NOT VALID,

  CONSTRAINT team_id FOREIGN KEY (team_id)

    REFERENCES cf_db.teams (team_id) MATCH SIMPLE

    ON UPDATE CASCADE

    ON DELETE CASCADE

    NOT VALID

)

----

5)

CREATE TABLE cf_db.teams

(

    team_id text COLLATE pg_catalog."default" NOT NULL,

    t_name text COLLATE pg_catalog."default" NOT NULL,

    t_strength integer NOT NULL,

    CONSTRAINT "TEAMS_pkey" PRIMARY KEY (team_id)

)

----

6)

CREATE TABLE cf_db.winners

(

    co_id integer NOT NULL,

    team_id text COLLATE pg_catalog."default" NOT NULL,

    e_id integer NOT NULL,

    "position" integer NOT NULL,

    CONSTRAINT co_id FOREIGN KEY (co_id)

        REFERENCES cf_db.competition (co_id) MATCH SIMPLE

        ON UPDATE CASCADE

        ON DELETE CASCADE

        NOT VALID,

    CONSTRAINT e_id FOREIGN KEY (e_id)

```
        REFERENCES cf_db.events (e_id) MATCH SIMPLE

        ON UPDATE CASCADE

        ON DELETE CASCADE

        NOT VALID,

    CONSTRAINT team_id FOREIGN KEY (team_id)

        REFERENCES cf_db.teams (team_id) MATCH SIMPLE

        ON UPDATE CASCADE

        ON DELETE CASCADE

        NOT VALID

)
```