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|  | **DEPARTMENT OF COMPUTER ENGINEERING** |

**DBMS Mini-Project**

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| Semester | S.E. Semester IV – Computer Engineering |
| Subject | Data Base Management System |
| Subject Professor In-charge | Prof. Suja Jayachandran |
| Assisting Teachers | Prof. Suja Jayachandran |

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| --- | --- |
| Roll Numbers | Name of Students |
| 21102A0003 | Omkar Patil |
| 21102A0005 | Pranav Redij |
| 21102A0014 | Deep Salunkhe |
| 21102A0015 | Gauri Naik |

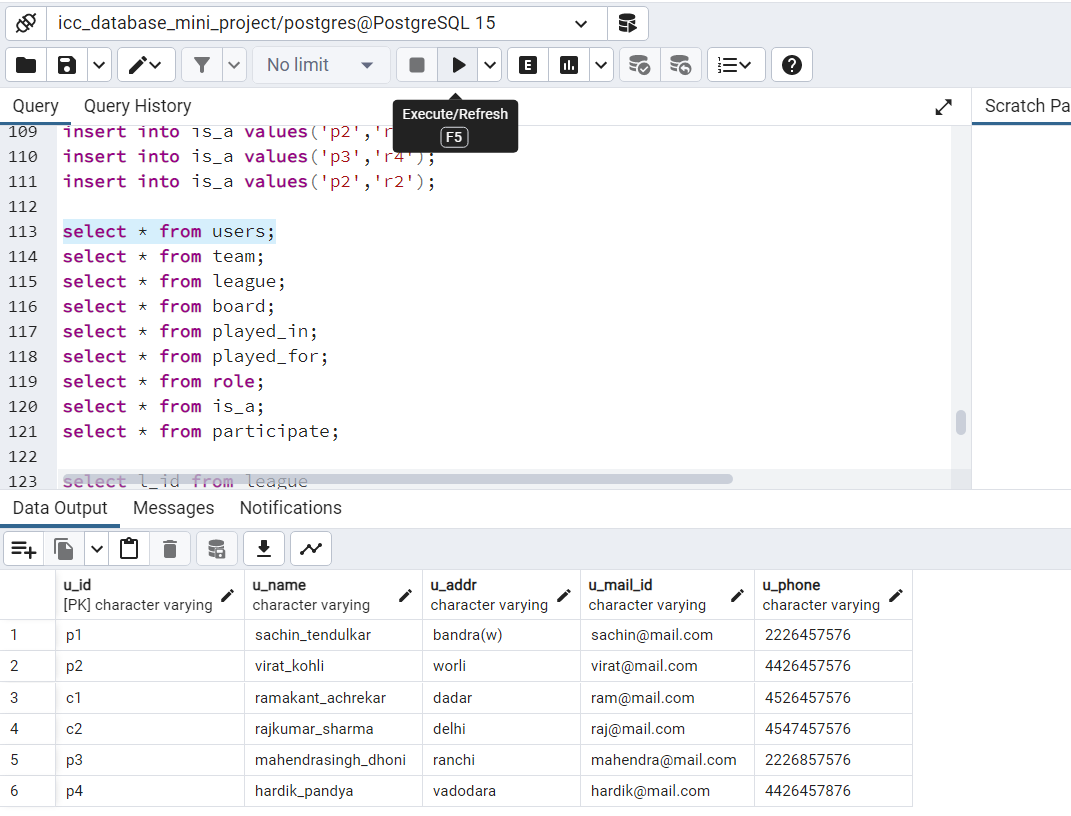
**Name of the Project: ICC DATABASE**

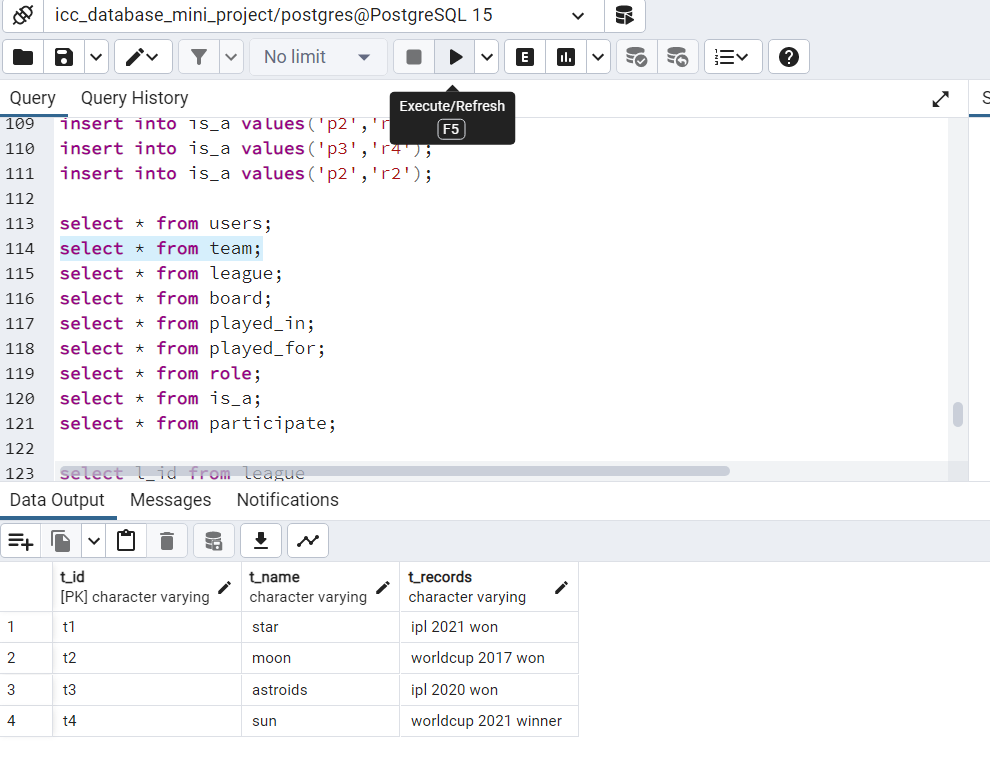
**Project Code:**

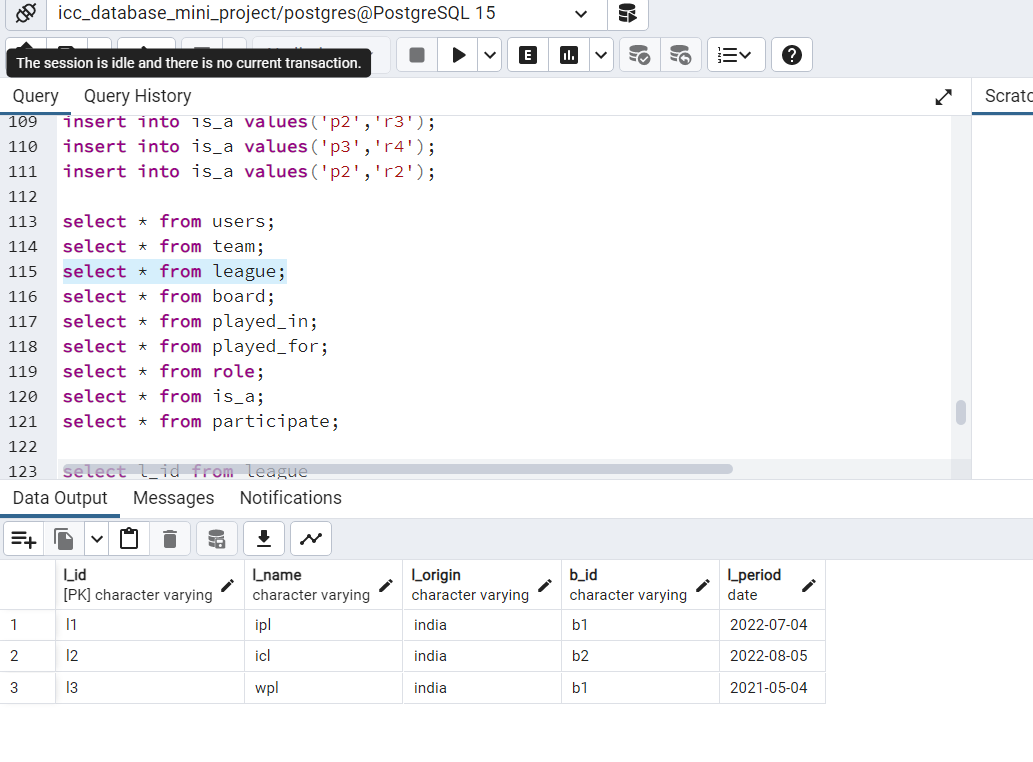
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| create table users(u\_id varchar primary key,u\_name varchar,u\_addr varchar,u\_mail\_id varchar,u\_phone varchar);  create table team(t\_id varchar primary key,t\_name varchar,t\_records varchar);  create table league(l\_id varchar primary key,l\_name varchar,l\_origin varchar,b\_id varchar,l\_period date);  create table board(b\_id varchar primary key,b\_name varchar,b\_organisation varchar);  create table played\_in(l\_id varchar,u\_id varchar);  create table played\_for(u\_id varchar,t\_id varchar);  create table role(r\_id varchar primary key,r\_name varchar);  create table taught(u\_id varchar,t\_id varchar);  create table participate(l\_id varchar,t\_id varchar);  create table is\_a(u\_id varchar,r\_id varchar);  alter table league  add foreign key(b\_id)  references board(b\_id)  on update cascade;  alter table is\_a  add foreign key(r\_id)  references role(r\_id)  on update cascade;  alter table is\_a  add foreign key(u\_id)  references users(u\_id)  on update cascade;  alter table played\_in  add foreign key(l\_id)  references league(l\_id)  on update cascade;  alter table played\_in  add foreign key(u\_id)  references users(u\_id)  on update cascade;  alter table played\_for  add foreign key(u\_id)  references users(u\_id)  on update cascade;  alter table played\_for  add foreign key(t\_id)  references team(t\_id)  on delete cascade;  alter table taught  add foreign key(u\_id)  references users(u\_id)  on update cascade;  alter table taught  add foreign key(t\_id)  references team(t\_id)  on update cascade;  alter table participate  add foreign key(l\_id)  references league(l\_id)  on update cascade;  alter table participate  add foreign key(t\_id)  references team(t\_id)  on update cascade;  insert into users values('p1','sachin\_tendulkar','bandra(w)','sachin@mail.com','2226457576');  insert into users values('p2','virat\_kohli','worli','virat@mail.com','4426457576');  insert into users values('c1','ramakant\_achrekar','dadar','ram@mail.com','4526457576');  insert into users values('c2','rajkumar\_sharma','delhi','raj@mail.com','4547457576');  insert into users values('p3','mahendrasingh\_dhoni','ranchi','mahendra@mail.com','2226857576');  insert into users values('p4','hardik\_pandya','vadodara','hardik@mail.com','4426457876');  insert into team values('t1','star','ipl 2021 won');  insert into team values('t2','moon','worldcup 2017 won');  insert into team values('t3','astroids','ipl 2020 won');  insert into team values('t4','sun','worldcup 2021 winner');  insert into league values('l1','ipl','india','b1','4-07-2022');  insert into league values('l2','icl','india','b2','5-08-2022');  insert into league values('l3','wpl','india','b1','4-05-2021');  insert into board values('b1','bcci','private');  insert into board values('b2','icc','private');  insert into role values('r1','captain');  insert into role values('r2','batsmam');  insert into role values('r3','goalkeeper');  insert into role values('r4','bowler');  insert into role values('r5','allrounder');  insert into played\_in values('l1','p1');  insert into played\_in values('l1','p2');  insert into played\_in values('l2','p1');  insert into played\_in values('l3','p4');  insert into played\_for values('p1','t1');  insert into played\_for values('p1','t2');  insert into played\_for values('p2','t1');  insert into played\_for values('p3','t3');  insert into played\_for values('p4','t3');  insert into played\_for values('p4','t4');  insert into taught values('c1','t1');  insert into taught values('c2','t2');  insert into participate values('l1','t1');  insert into participate values('l1','t2');  insert into participate values('l2','t1');  insert into participate values('l3','t3');  insert into is\_a values('p1','r1');  insert into is\_a values('p2','r3');  insert into is\_a values('p3','r4');  insert into is\_a values('p2','r2');  select \* from users;  select \* from team;  select \* from league;  select \* from board;  select \* from played\_in;  select \* from played\_for;  select \* from role;  select \* from is\_a;  select \* from participate;  select l\_id from league  where l\_period between '01-01-2021' and '31-12-2022';  create view team\_records as  select team.t\_id,team.t\_name,league.l\_name,league.l\_id  from team,league  group by team.t\_id,league.l\_id  order by count(l\_id);  select \* from team\_records;  SELECT u\_id FROM played\_in  WHERE l\_id='l1';  select l\_id from league  right join board  on league.b\_id=board.b\_id;  select l\_id from league  full outer join board  on league.b\_id=board.b\_id; |

**Result/ Output:**

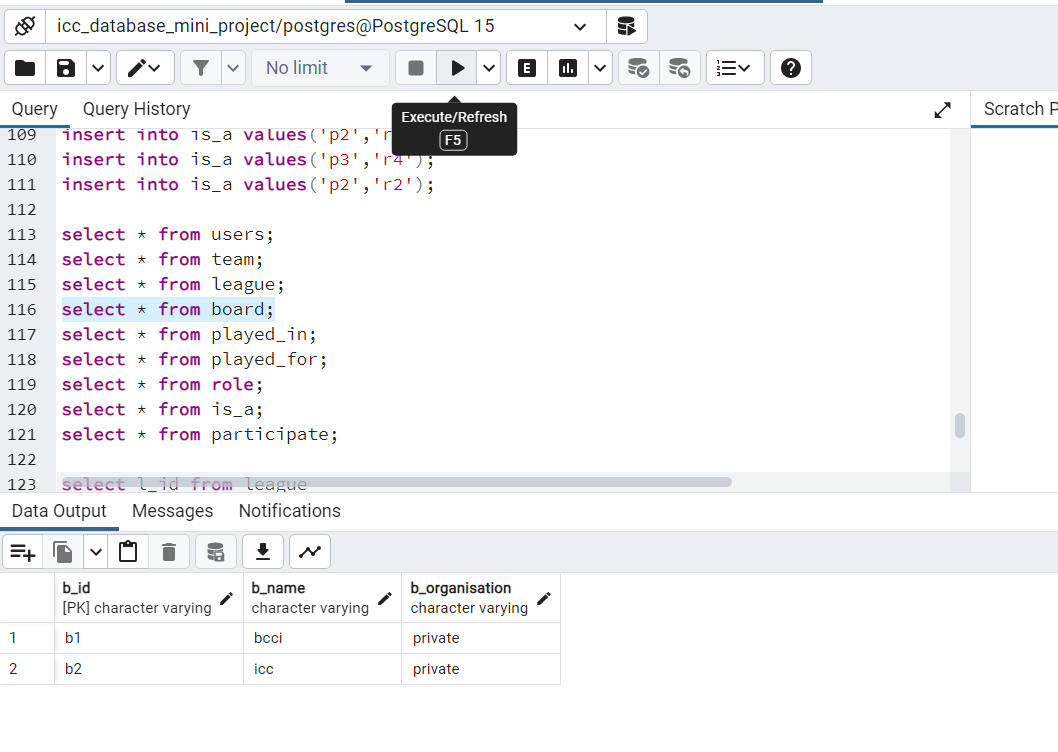
USERS TABLE:

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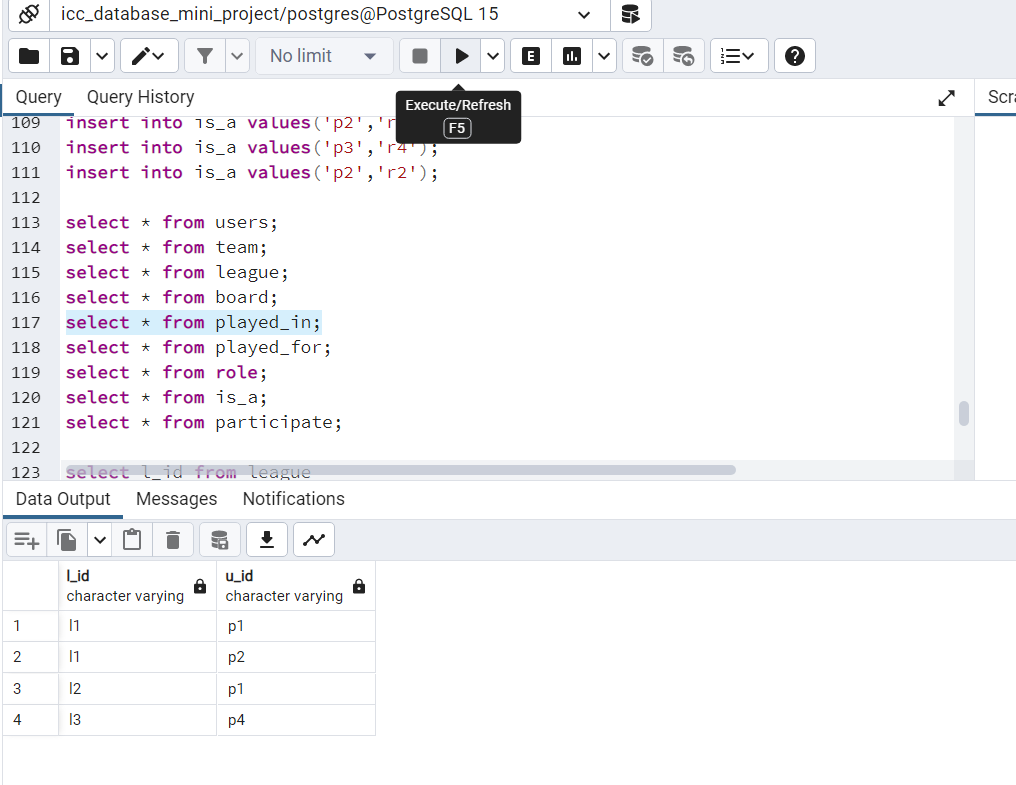
TEAM TABLE:

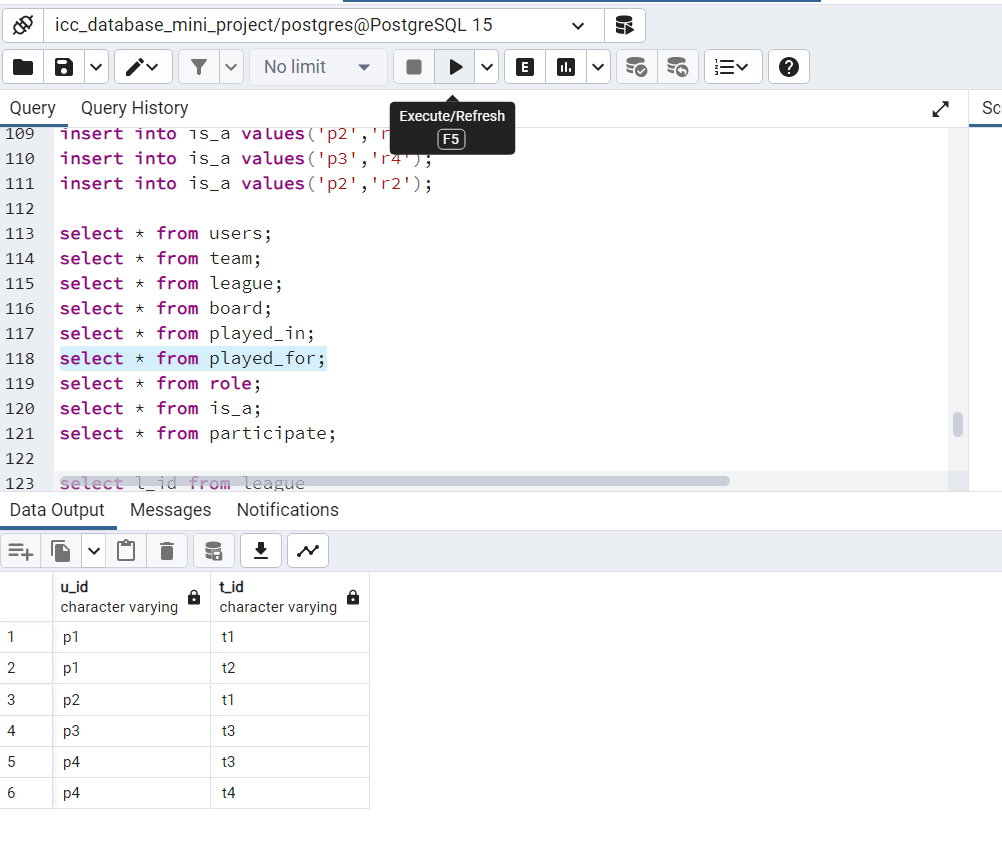
LEAGUE TABLE:

BOARD TABLE:

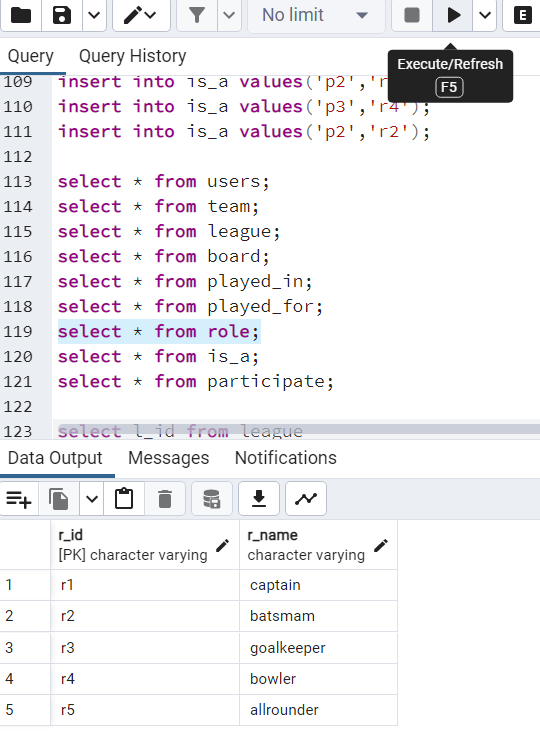


PLAYED\_IN TABLE:

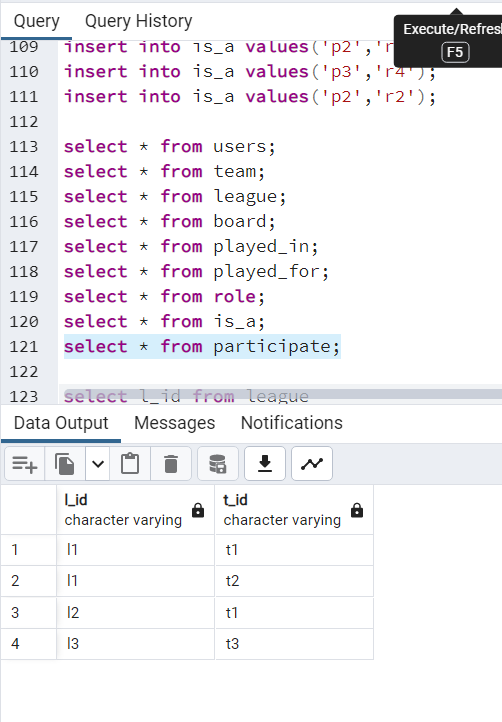


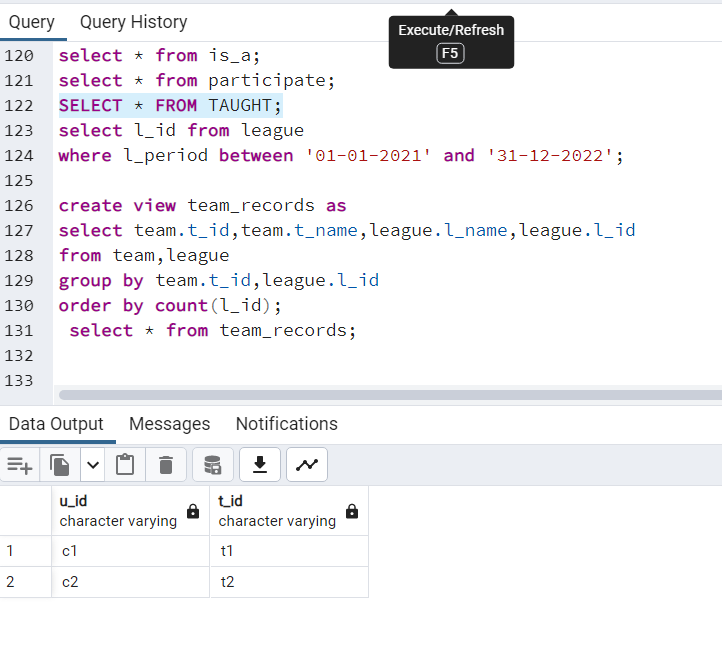
PLAYED\_FOR TABLE:

ROLE TABLE:

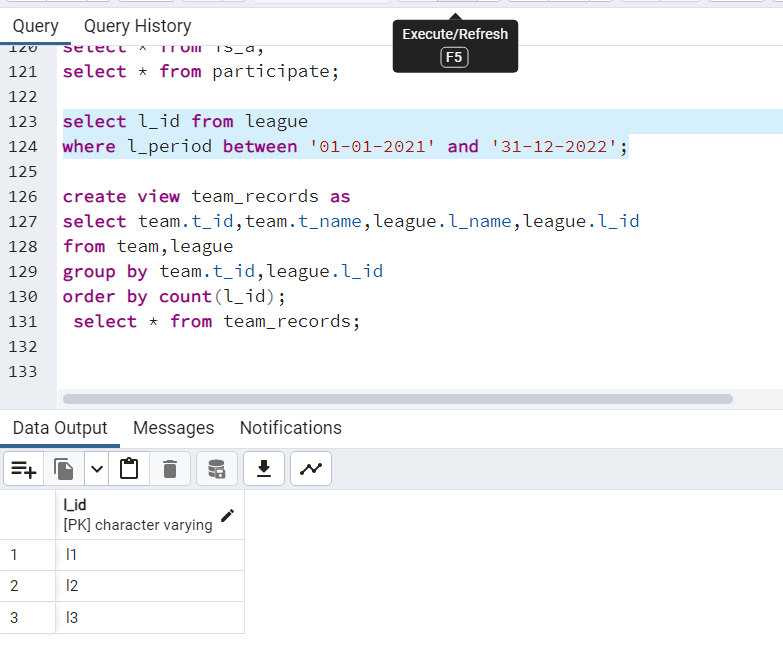


PARTICIPATE

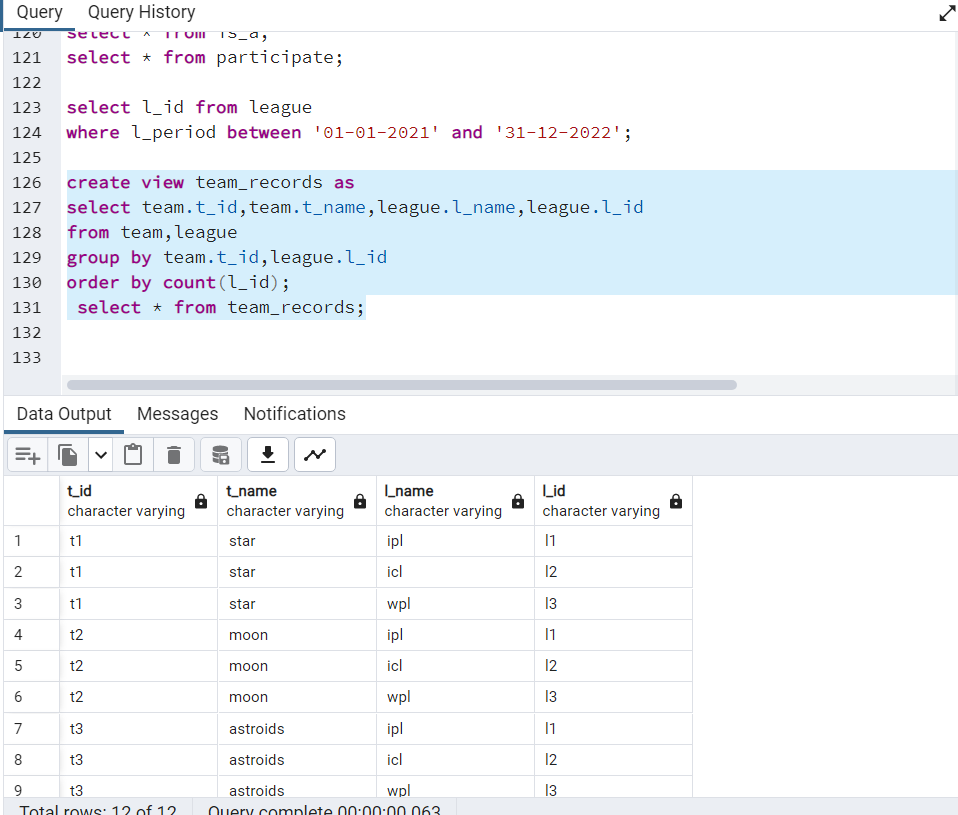
PARTICIPATE TABLE:

TAUGHT TABLE:

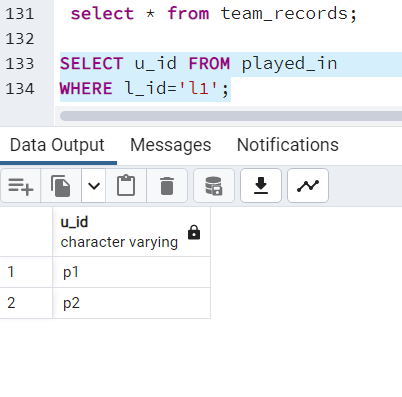
What is the SQL query to retrieve the **l\_id** values from the **league** table for all leagues that were active between January 1, 2021, and December 31, 2022?



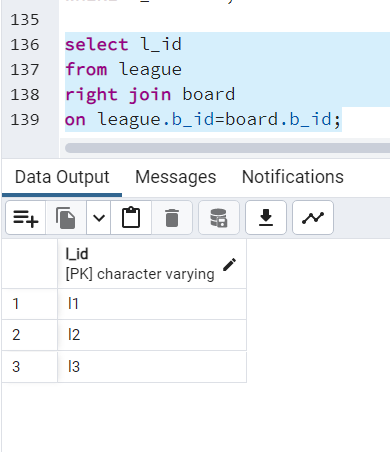
What is the SQL code to create a view called **team\_records** that displays the **t\_id**, **t\_name**, **l\_name**, and **l\_id** columns from the **team** and **league** tables, grouped by **t\_id** and **l\_id**, and ordered by the count of **l\_id**? Also, what is the SQL query to select and display all columns from the **team\_records** view?



1. What is the SQL query to select the **u\_id** values from the **played\_in** table for all users who played in a league with **l\_id** equal to **'l1'**?



RIGHT JOIN: What is the SQL query to select the **l\_id** values from the **league** table for all leagues associated with a board using a **right join** with the **board** table?



What is the SQL query to select the **l\_id** values from the **league** table for all leagues associated with a board using a **full outer join** with the **board** table?

