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**Sem :** 5

**Batch :** H3

**Topic :** OmniLib

**Subject :** Database Management System

**Univ. :** Dharmsinh Desai University

**Joins and Subqueries**

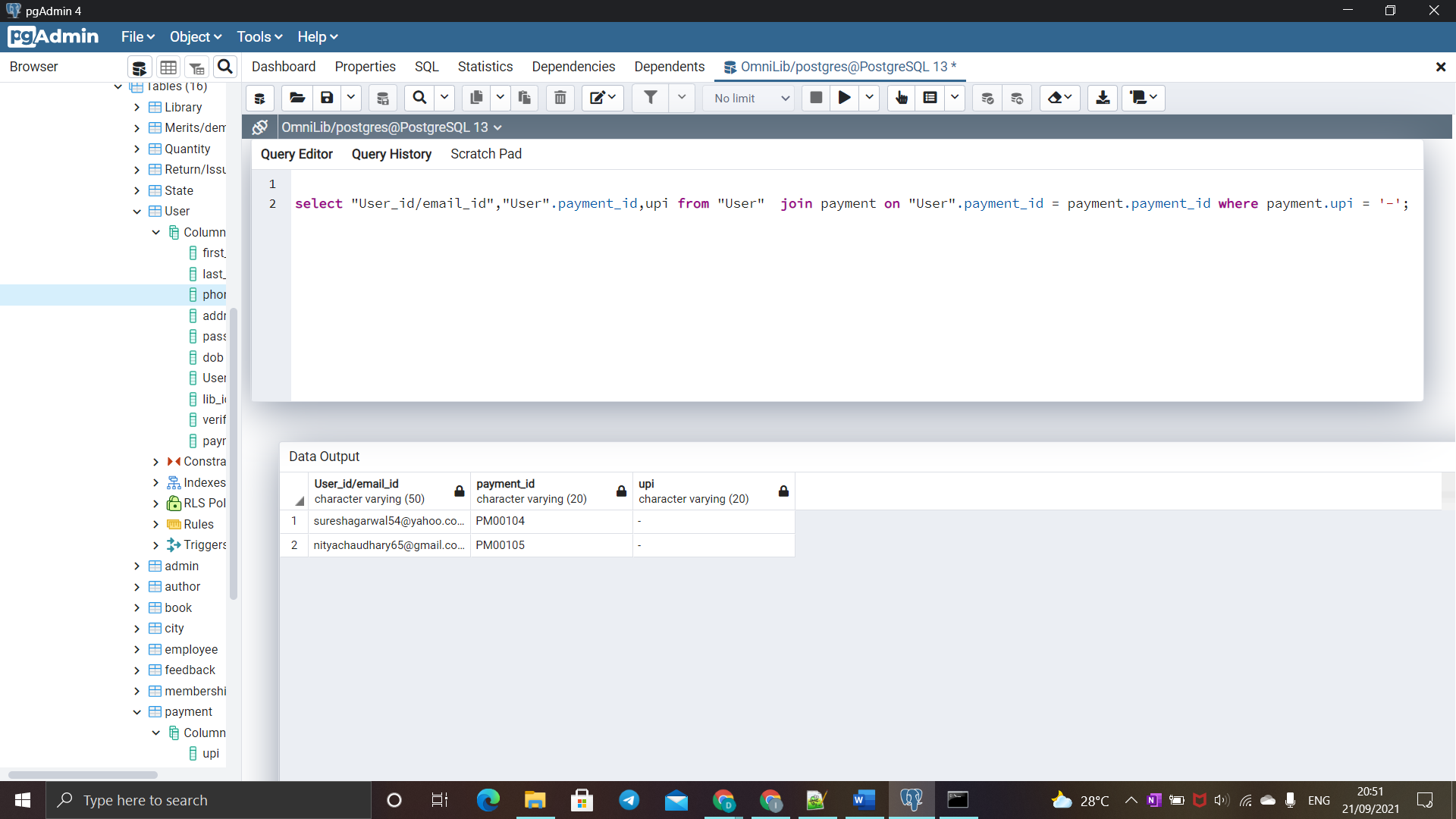
**Inner join**

**Users who haven’t paid through UPI**

**1)select "User\_id/email\_id","User".payment\_id,upi from**

**"User" join payment on "User".payment\_id = payment.payment\_id**

**where payment.upi = '-';**

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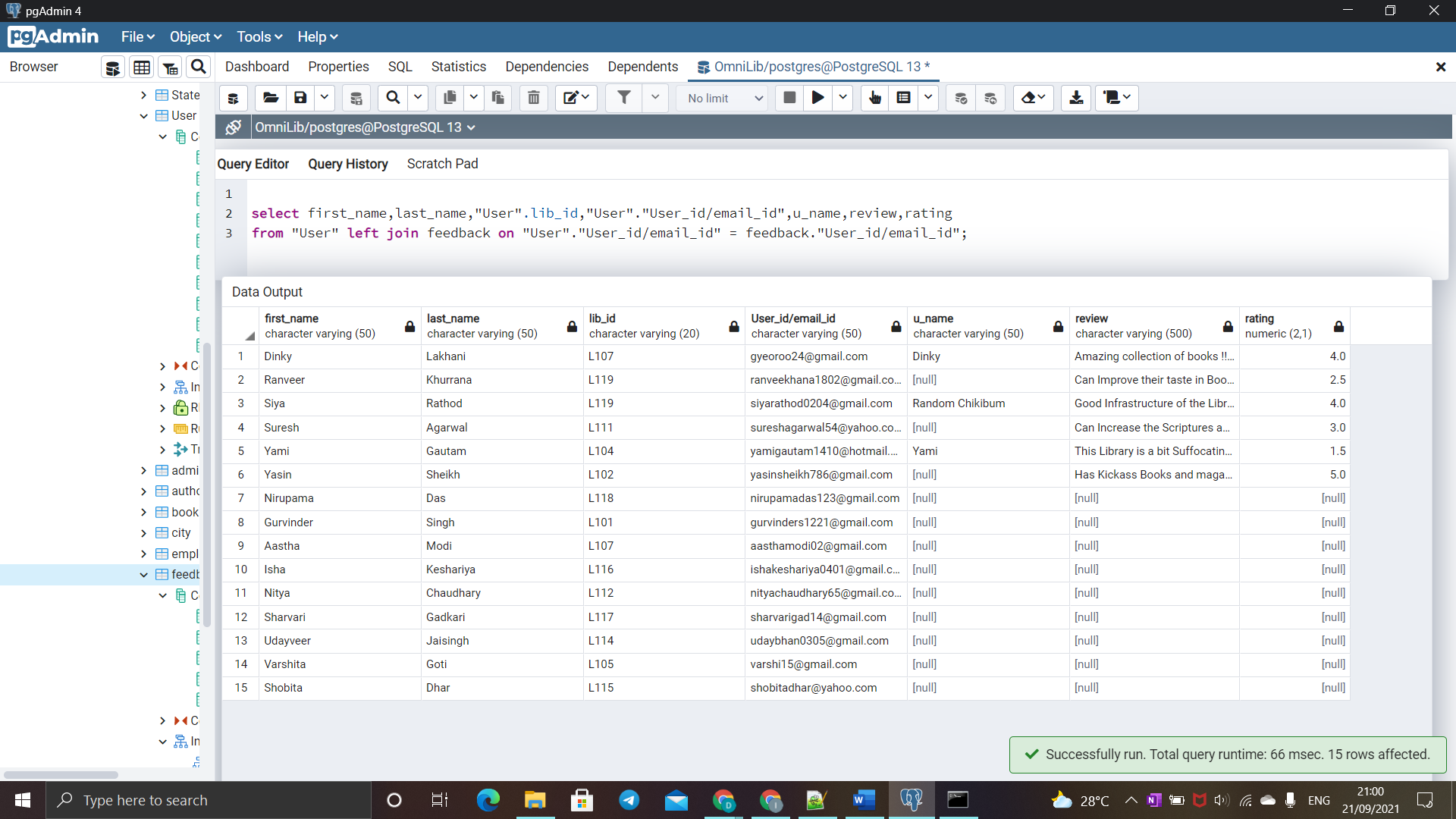
**Left Join**

**2) select first\_name,last\_name,"User".lib\_id,"User"."User\_id/email\_id",**

**u\_name,review,rating**

**from "User" left join feedback on**

**"User"."User\_id/email\_id" = feedback."User\_id/email\_id";**

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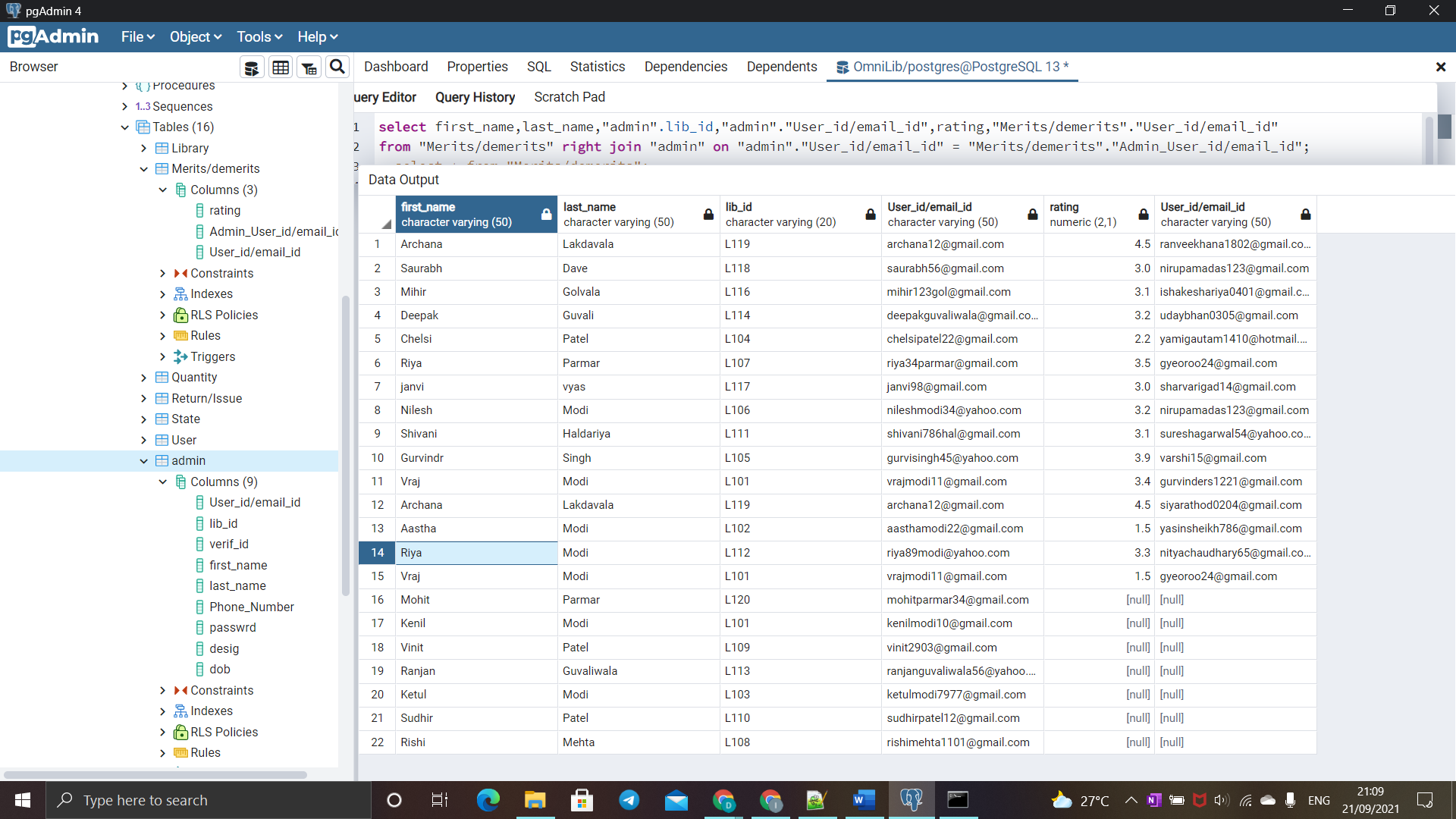
**Right Join**

**3) select first\_name,last\_name,"admin".lib\_id,"admin"."User\_id/email\_id",rating,**

**"Merits/demerits"."User\_id/email\_id"**

**from "Merits/demerits" right join "admin"**

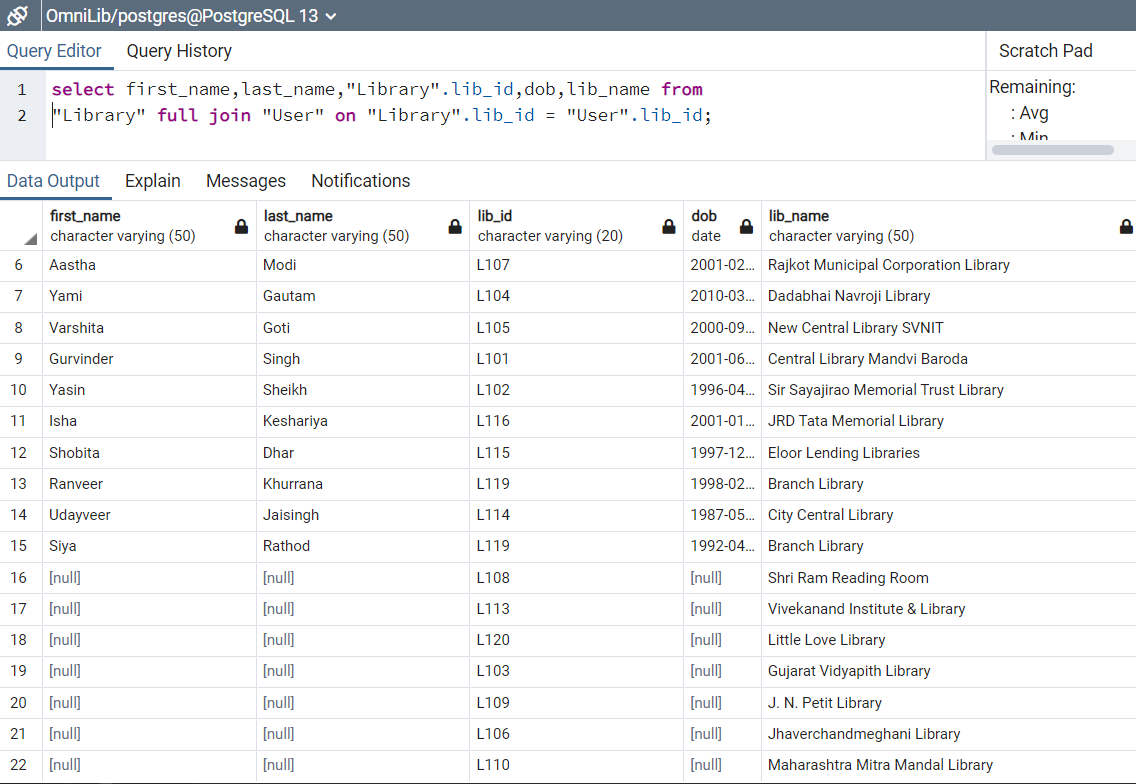
**on "admin"."User\_id/email\_id" = "Merits/demerits"."Admin\_User\_id/email\_id";**



**Full join**

**4) select first\_name,last\_name,"Library".lib\_id,dob,lib\_name from**

**"Library" full join "User" on "Library".lib\_id = "User".lib\_id;**

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**Self Join**

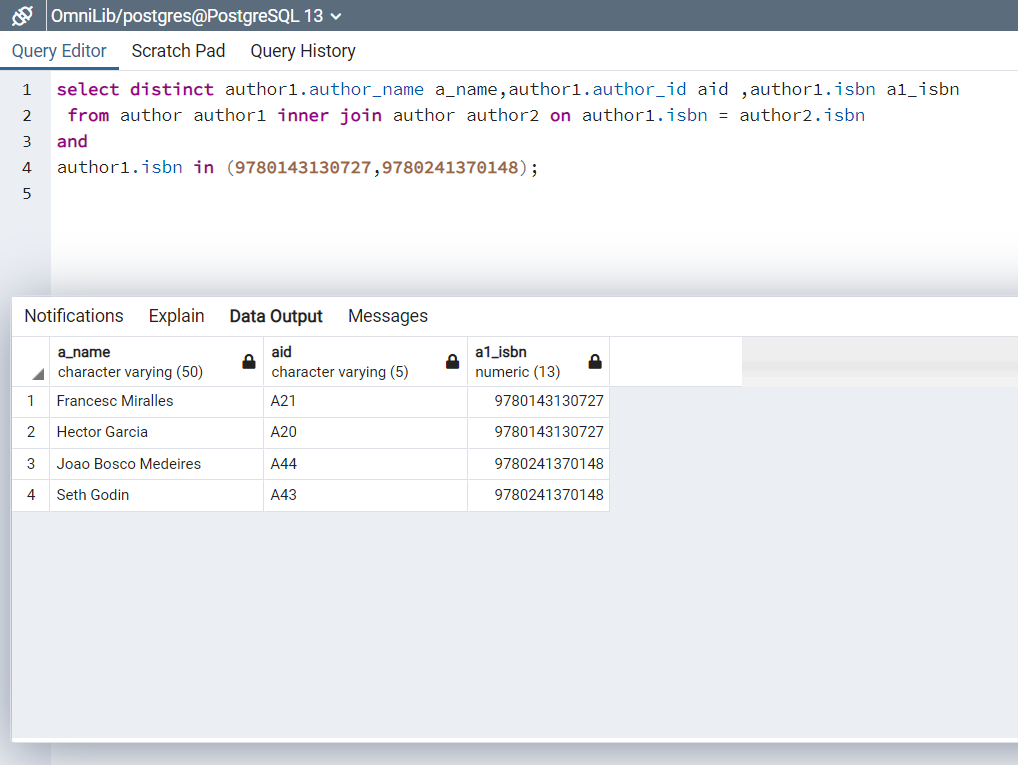
**Authors having certain ISBN**

**5) select distinct author1.author\_name a\_name,author1.author\_id aid ,author1.isbn a1\_isbn**

**from author author1 inner join author author2 on author1.isbn = author2.isbn**

**and**

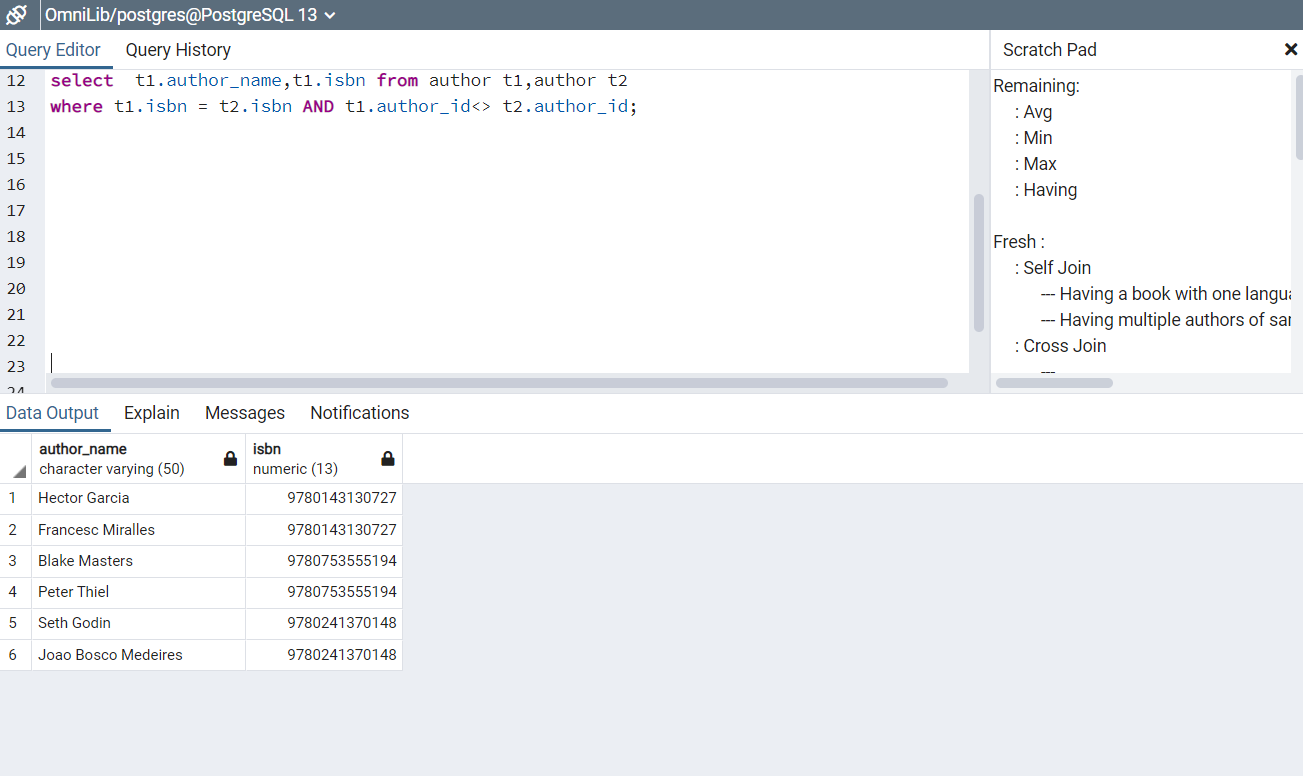
**author1.isbn in (9780143130727,9780241370148);**

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**Books having multiple authors**

**6) select t1.author\_name,t1.isbn from author t1 , author t2**

**where t1.isbn = t2.isbn AND t1.author\_id<> t2.author\_id;**



**Sub queries**

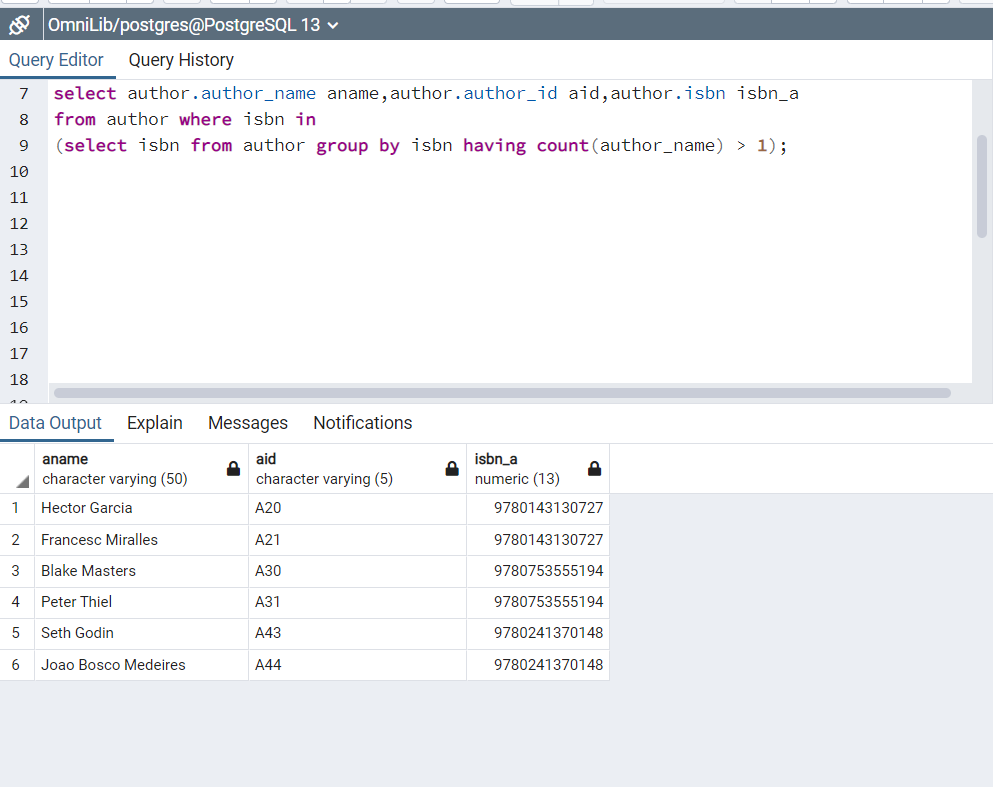
**Correlated**

**Books having multiple authors**

**7) select author.author\_name aname,author.author\_id aid,author.isbn isbn\_a**

**from author where isbn in**

**(select isbn from author group by isbn having count(author\_name) > 1);**



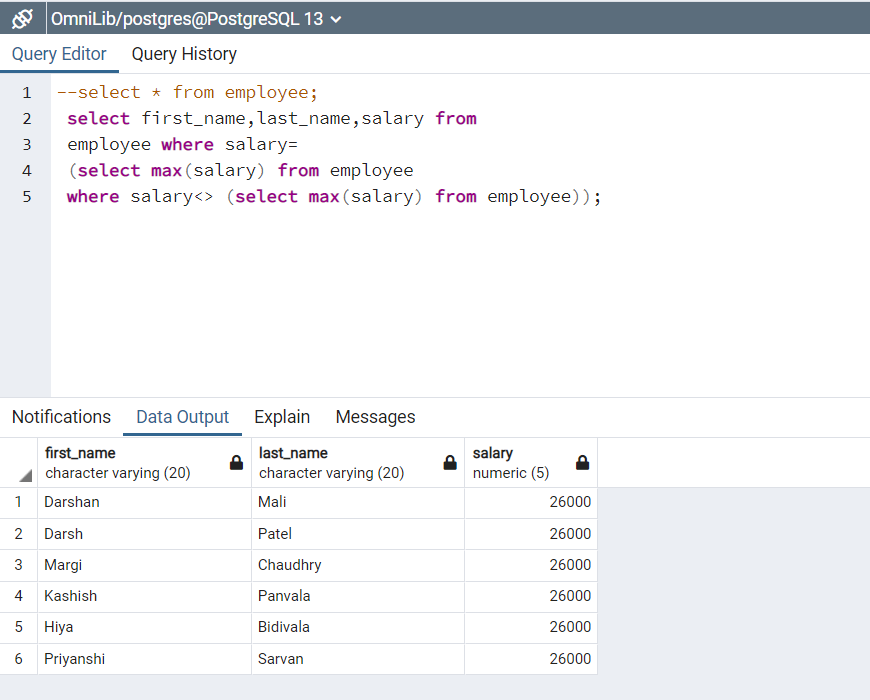
**Employees of library having Second Maximum Salary**

**8) select first\_name,last\_name,salary from**

**employee where salary=**

**(select max(salary) from employee**

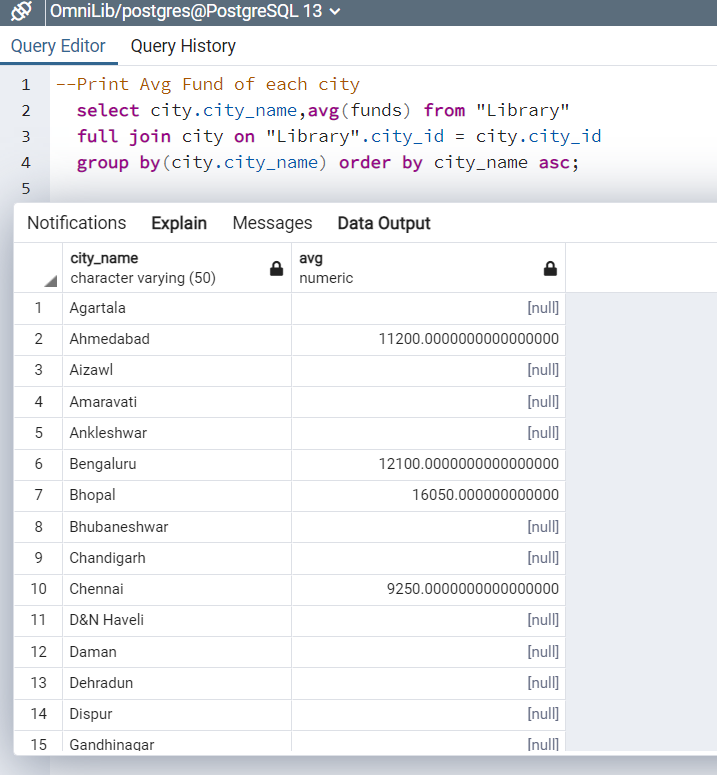
**where salary<> (select max(salary) from employee));**



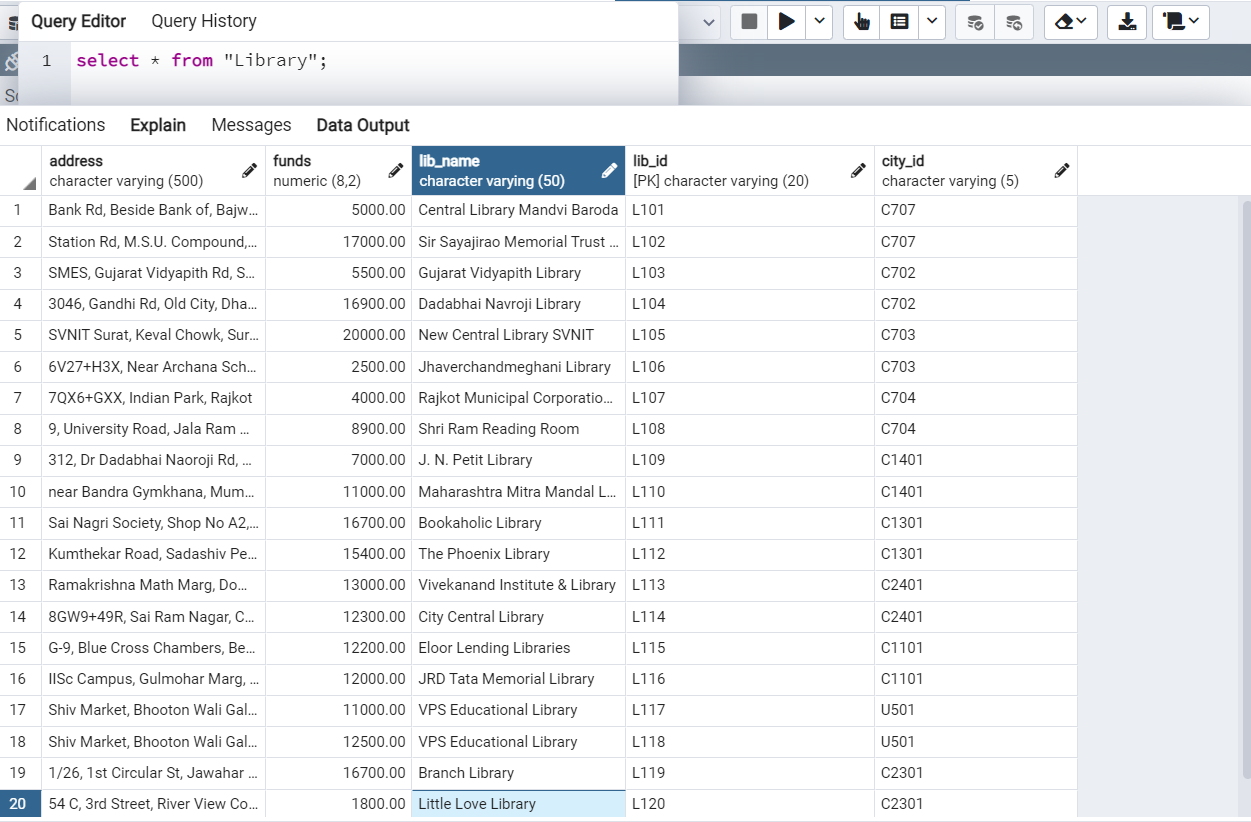
**Average fund of cities**

**9) select city.city\_name,avg(funds) from "Library"**

**full join city on "Library".city\_id = city.city\_id group by(city.city\_name) order by city\_name asc;**

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**Select \* from “Library”;**

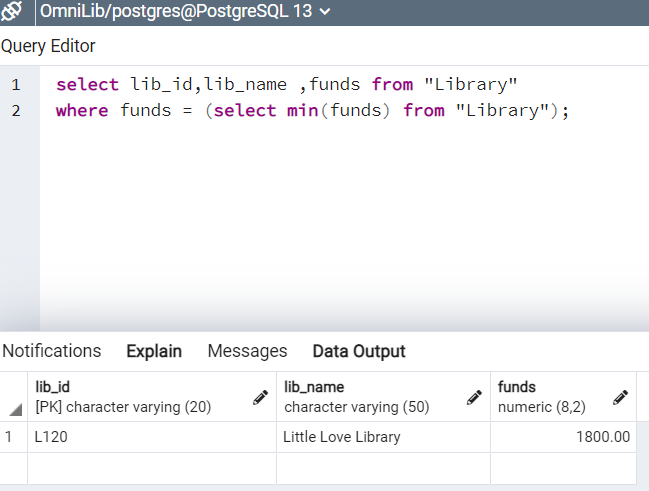
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**Independent**

**Library having minimum fund**

**10) select lib\_id,lib\_name ,funds from "Library"**

**where funds = (select min(funds) from "Library");**

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