

DATABASE MANAGEMENT SYSTEM PROJECT

ZOO MANAGEMENT SYSTEM

ASSIGNMENT – 3

Submitted by:

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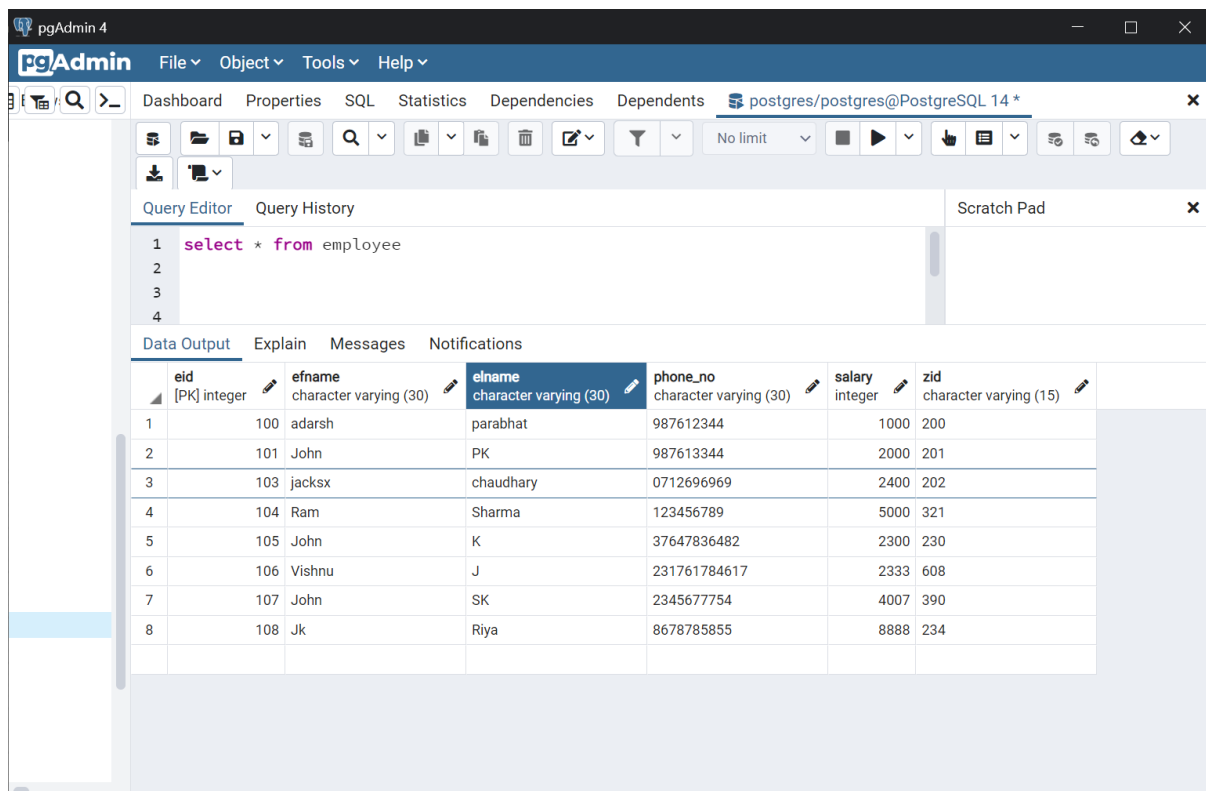
Namitha Nayak- PES2UG19CS247

Nidhi- PES2UG19CS254

Queries :

1) Simple Queries:

1. SELECT * from employee



The screenshot shows the pgAdmin 4 interface. The 'Query Editor' tab is active, displaying the SQL query: `select * from employee`. Below the editor, the 'Data Output' tab shows the results of the query in a table format. The table has 8 columns: `eid` (integer, PK), `efname` (character varying (30)), `elname` (character varying (30)), `phone_no` (character varying (30)), `salary` (integer), and `zid` (character varying (15)). The results are as follows:

	eid [PK] integer	efname character varying (30)	elname character varying (30)	phone_no character varying (30)	salary integer	zid character varying (15)
1	100	adarsh	parabhat	987612344	1000	200
2	101	John	PK	987613344	2000	201
3	103	jacksox	chaudhary	0712696969	2400	202
4	104	Ram	Sharma	123456789	5000	321
5	105	John	K	37647836482	2300	230
6	106	Vishnu	J	231761784617	2333	608
7	107	John	SK	2345677754	4007	390
8	108	Jk	Riya	8678785855	8888	234

2. SELECT * from customer

The screenshot shows the pgAdmin 4 interface. The Query Editor tab is active, displaying the query `select * from customer`. The Data Output tab shows the results of the query in a table format.

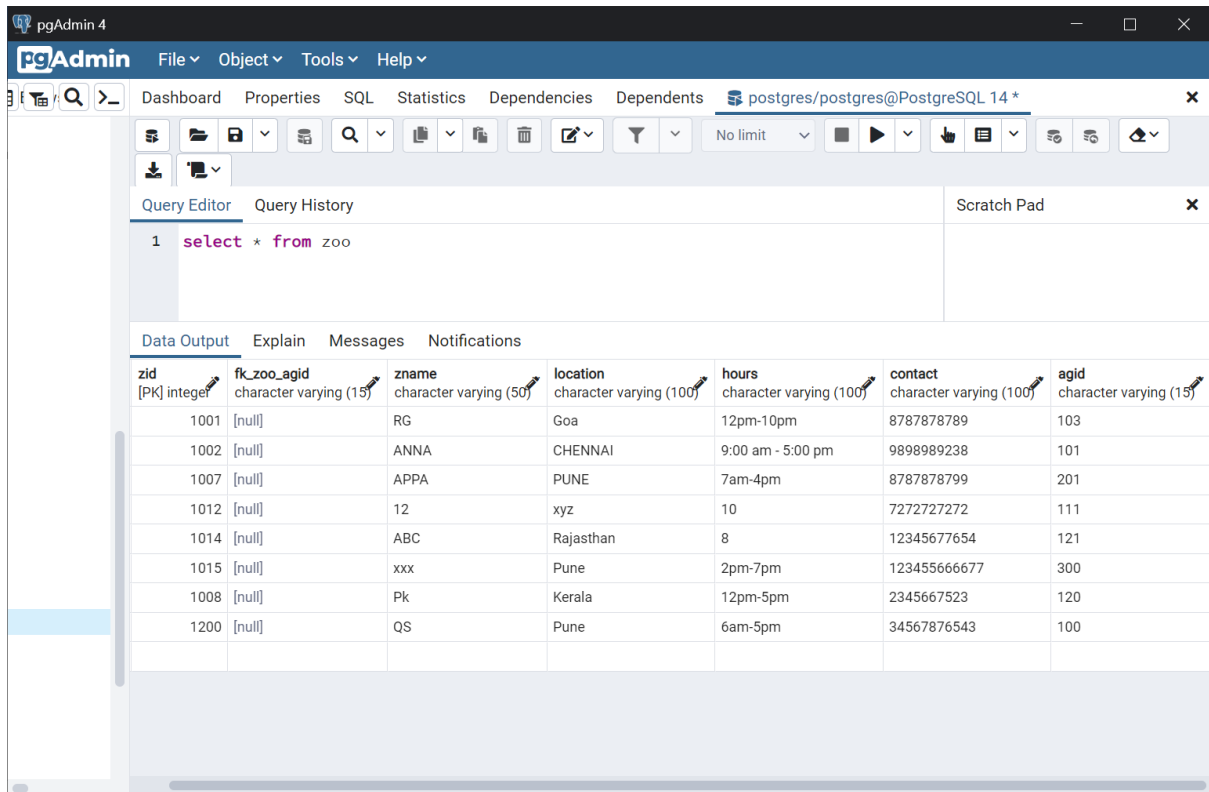
	cid	cfname	clname	email	address	credit_card_info
1	1	amal	sutone	amal@gmail.com	nagpur	12233445533
2	2	shubham	maratha	sm@gmail.com	bhilwara	12323456765434
3	3	babu	rao	bau@gmail.com	mumbai	12345678987\r\n
4	4	Rahul	K	R@gmail.com	bangalore	34348364
5	5	Roy	PD	rpd@gmail.com	Hyderabad	56748293838
6	6	Farhan	khan	khan@gmail.com	Lucknow	45676543
7	7	aman	H	aman@gmail.com	Vijaywada	87654345678
8	8	Parthiv	Q	parth@gmail.com	delhi	1234567899777

3. SELECT * from ticket

The screenshot shows the pgAdmin 4 interface. The Query Editor tab is active, displaying the query `select * from ticket`. The Data Output tab shows the results of the query in a table format.

	tid	price	fk_tid	cid
1	5	25	[null]	2
2	4	40	[null]	3
3	6	70	[null]	8
4	9	47	[null]	6
5	10	65	[null]	9
6	11	34	[null]	10
7	12	12	[null]	13
8	14	10	[null]	20

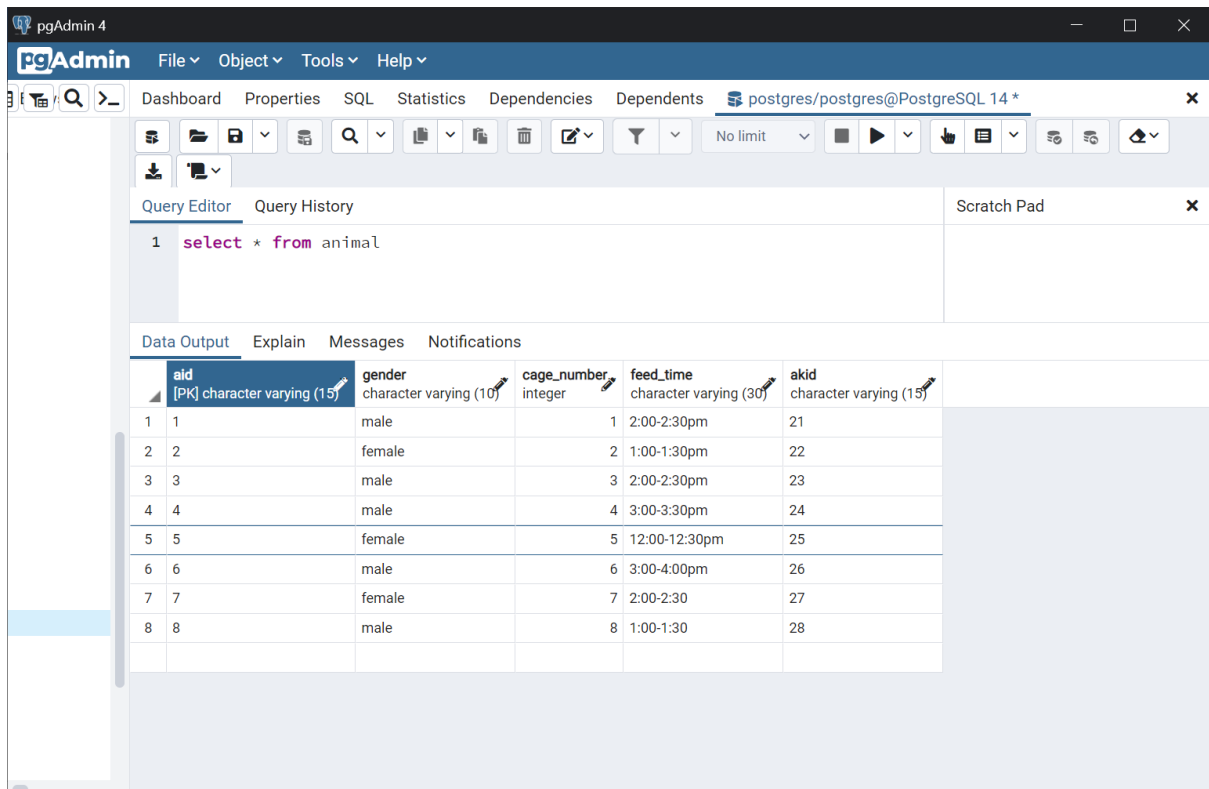
4. SELECT * from zoo



The screenshot shows the pgAdmin 4 interface. The Query Editor tab is active, displaying the query `select * from zoo`. The Data Output tab shows the results of the query in a table format. The table has 7 columns: **zid** [PK] integer, **fk_zoo_agid** character varying (15), **zname** character varying (50), **location** character varying (100), **hours** character varying (100), **contact** character varying (100), and **agid** character varying (15). The results are as follows:

zid	fk_zoo_agid	zname	location	hours	contact	agid
1001	[null]	RG	Goa	12pm-10pm	8787878789	103
1002	[null]	ANNA	CHENNAI	9:00 am - 5:00 pm	9898989238	101
1007	[null]	APPA	PUNE	7am-4pm	8787878799	201
1012	[null]	12	xyz	10	7272727272	111
1014	[null]	ABC	Rajasthan	8	12345677654	121
1015	[null]	xxx	Pune	2pm-7pm	12345666677	300
1008	[null]	Pk	Kerala	12pm-5pm	2345667523	120
1200	[null]	QS	Pune	6am-5pm	34567876543	100

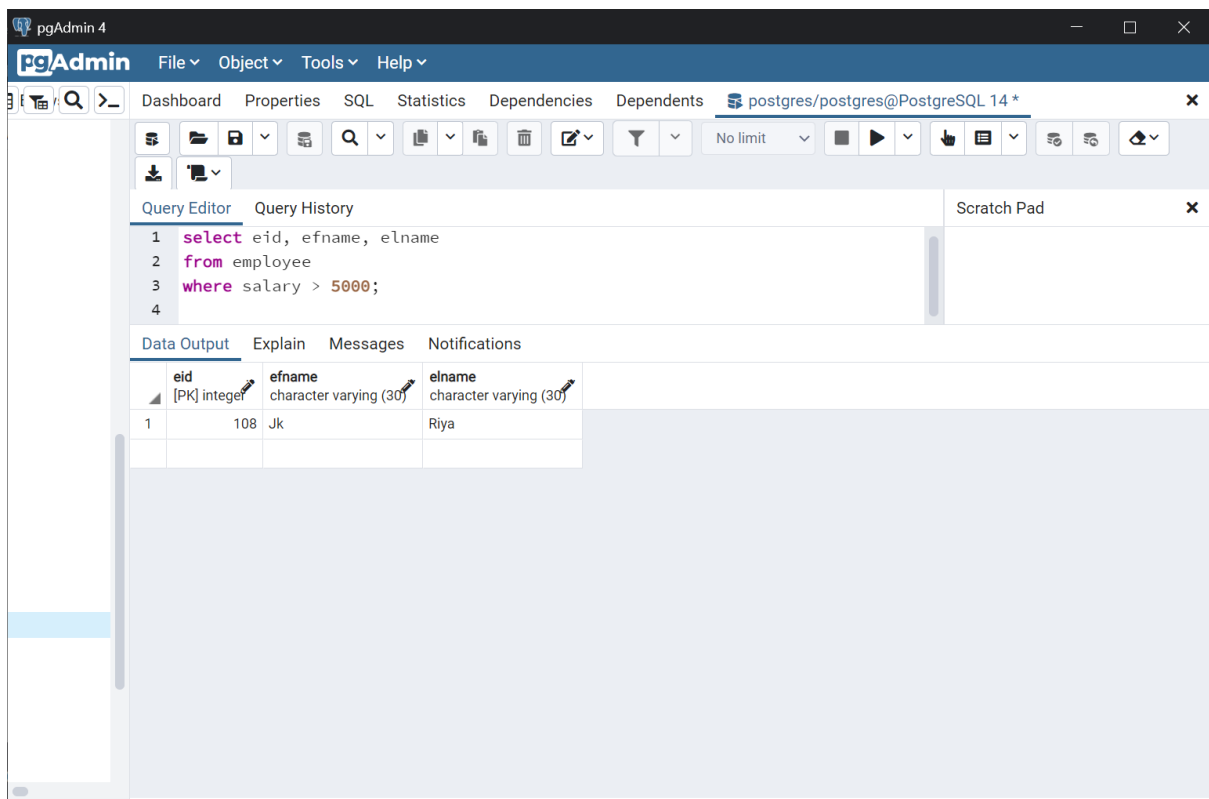
5. SELECT * from animal



The screenshot shows the pgAdmin 4 interface. The Query Editor tab is active, displaying the query `select * from animal`. The Data Output tab shows the results of the query in a table format. The table has 5 columns: **aid** [PK] character varying (15), **gender** character varying (10), **cage_number** integer, **feed_time** character varying (30), and **akid** character varying (15). The results are as follows:

aid	gender	cage_number	feed_time	akid
1	male	1	2:00-2:30pm	21
2	female	2	1:00-1:30pm	22
3	male	3	2:00-2:30pm	23
4	male	4	3:00-3:30pm	24
5	female	5	12:00-12:30pm	25
6	male	6	3:00-4:00pm	26
7	female	7	2:00-2:30	27
8	male	8	1:00-1:30	28

2) Complex queries

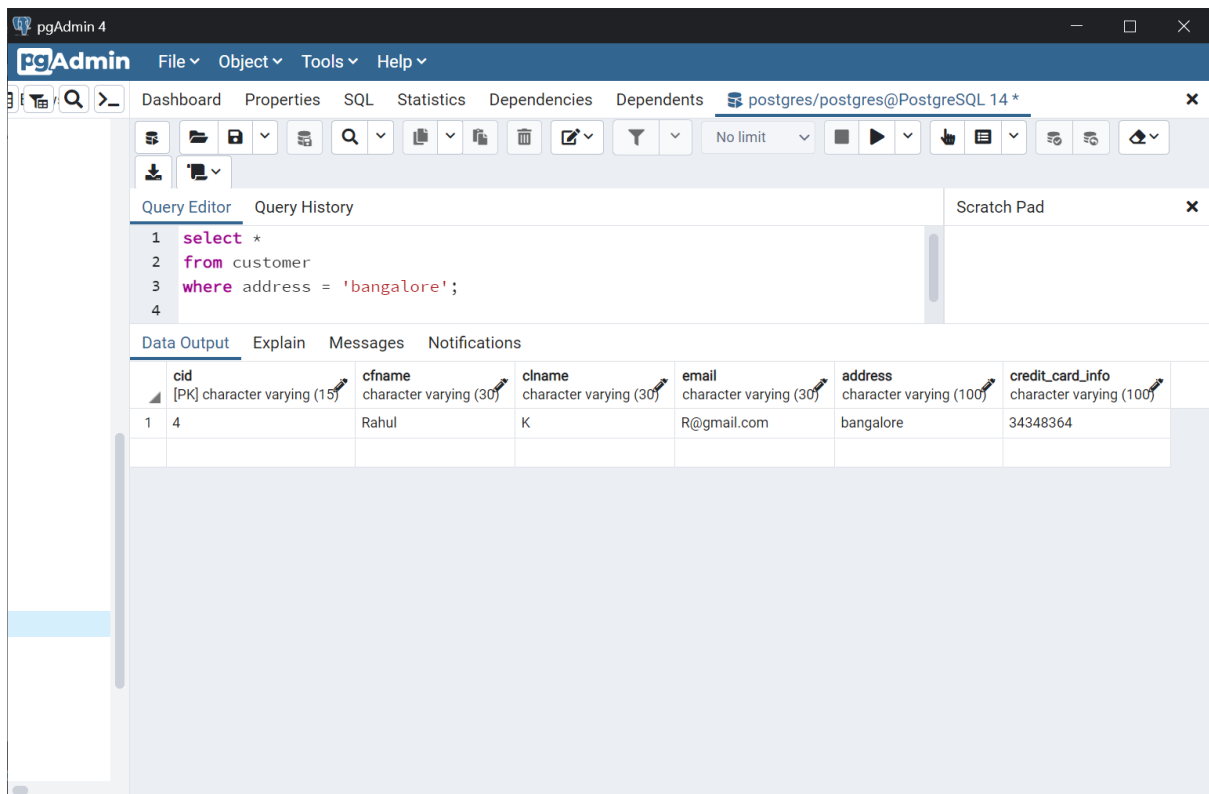


The screenshot shows the pgAdmin 4 interface. The Query Editor contains the following SQL query:

```
1 select eid, efname, elname
2 from employee
3 where salary > 5000;
4
```

The Data Output tab shows the results of the query:

	eid [PK] integer	efname character varying (30)	elname character varying (30)
1	108	Jk	Riya



The screenshot shows the pgAdmin 4 interface. The Query Editor contains the following SQL query:

```
1 select *
2 from customer
3 where address = 'bangalore';
4
```

The Data Output tab shows the results of the query:

	cid [PK] character varying (15)	cfname character varying (30)	clname character varying (30)	email character varying (30)	address character varying (100)	credit_card_info character varying (100)
1	4	Rahul	K	R@gmail.com	bangalore	34348364

pgAdmin 4

File Object Tools Help

Dashboard Properties SQL Statistics Dependencies Dependents postgres/postgres@PostgreSQL 14 *

Query Editor Query History Scratch Pad

```
1 select *
2 from ticket
3 where price < 50;
4
```

Data Output Explain Messages Notifications

	tid [PK] character varying (15)	price integer	fk_tid character varying (11)	cid character varying (15)
1	5	25	[null]	2
2	4	40	[null]	3
3	9	47	[null]	6
4	11	34	[null]	10
5	12	12	[null]	13
6	14	10	[null]	20

pgAdmin 4

File Object Tools Help

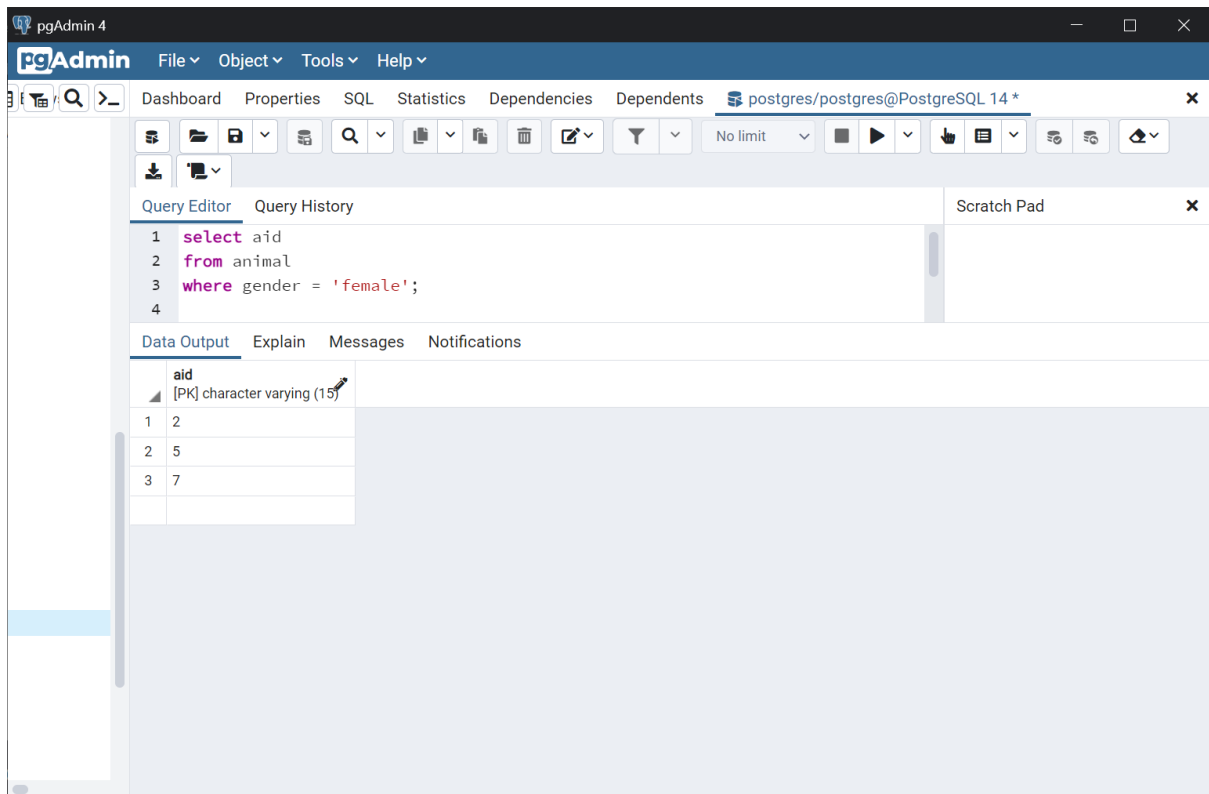
Dashboard Properties SQL Statistics Dependencies Dependents postgres/postgres@PostgreSQL 14 *

Query Editor Query History Scratch Pad

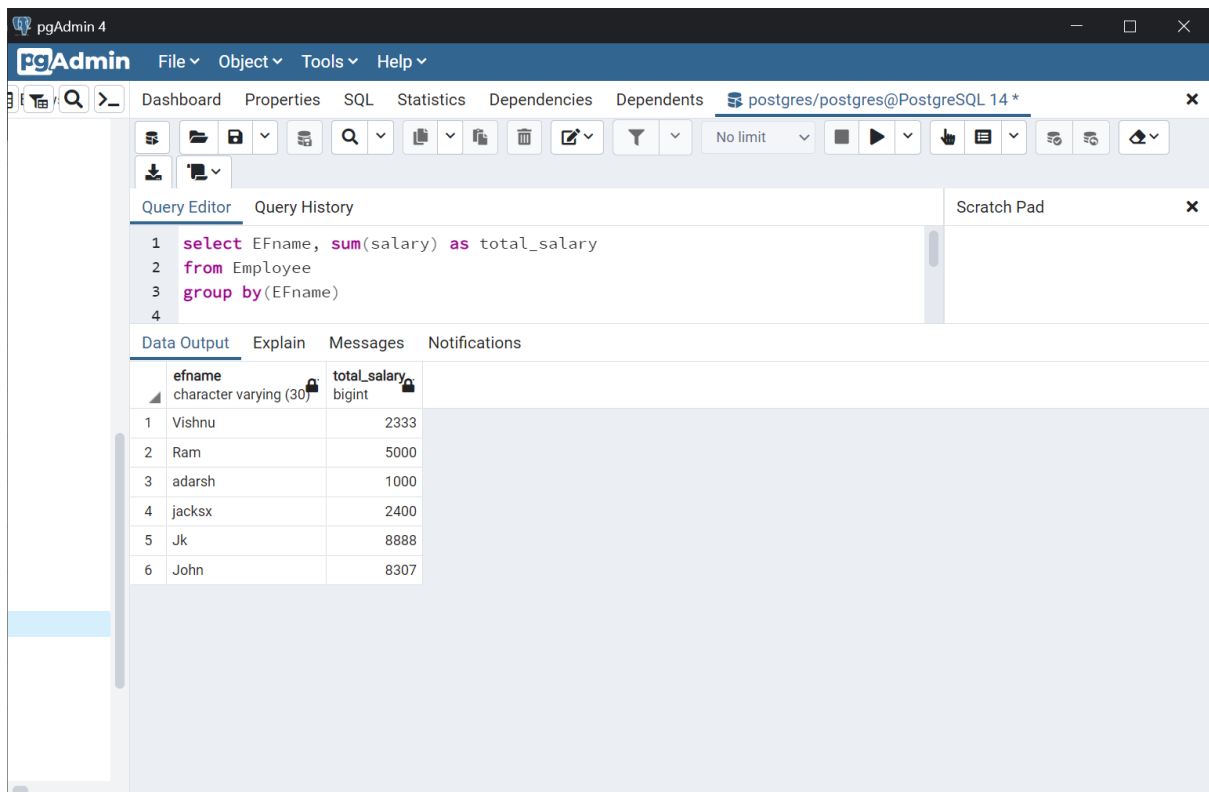
```
1 select hours, location
2 from zoo
3 where zid = '1015';
4
```

Data Output Explain Messages Notifications

	hours character varying (100)	location character varying (100)
1	2pm-7pm	Pune



3) Nested Queries



pgAdmin 4

pgAdmin File Object Tools Help

Dashboard Properties SQL Statistics Dependencies Dependents postgres/postgres@PostgreSQL 14 *

Query Editor Query History Scratch Pad

```
1 select cid, cfname, clname, email
2 from customer
3 where cid in (select cid
4 from ticket
5 where tid = '4');
```

Data Output Explain Messages Notifications

	cid [PK] character varying (15)	cfname character varying (30)	clname character varying (30)	email character varying (30)
1	3	babu	rao	bau@gmail.com

pgAdmin 4

pgAdmin File Object Tools Help

Dashboard Properties SQL Statistics Dependencies Dependents postgres/postgres@PostgreSQL 14 *

Query Editor Query History Scratch Pad

```
1 select akid, aname
2 from animal_kind
3 where akid in (select akid
4 from animal
5 where cage_number = '1');
```

Data Output Explain Messages Notifications

	akid [PK] character varying (15)	aname character varying (30)
1	21	sheru

Users with different access privilege levels :

Users created are admins with all privileges

Employee with SELECT on tables employee

Management with INSERT, UPDATE , DELETE privilege on table.

```
postgres=# CREATE user admins with encrypted password 'admin123';  
CREATE ROLE  
postgres=# GRANT all privileges on database postgres to admins;  
GRANT
```

```
postgres=# CREATE user Employee with encrypted password '123';  
CREATE ROLE  
postgres=# GRANT select on Employee to Employee;  
GRANT
```

```
postgres=# CREATE user Management with encrypted password 'abc123';  
CREATE ROLE  
postgres=# GRANT insert, update, delete on animal to Management;  
GRANT  
postgres=#
```

CONTRIBUTION

Manasa R- Execution of simple and nested queries, contributed to report.

Namitha Nayak- Execution of complex and nested queries, contributed to report.

Nidhi- Created multiple users with access privileges, compilation of report.

