

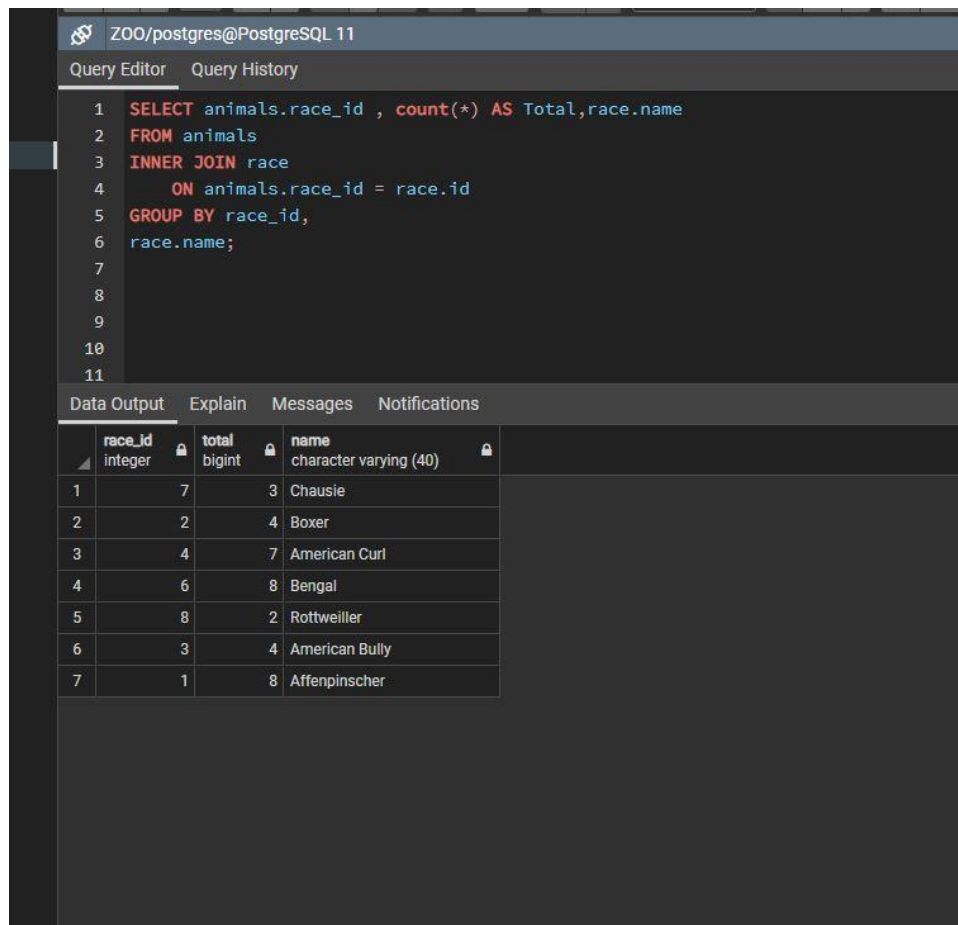


## Title

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Course	Database Concepts and Applications
Session	
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Date	2022-09-18

## EASY

### 1. How many races exist in the animals table? (Display all of their name)



The screenshot shows a PostgreSQL query editor interface. The top bar indicates the connection is to 'ZOO/postgres@PostgreSQL 11'. Below the bar are tabs for 'Query Editor' and 'Query History'. The 'Query Editor' tab is active, displaying a SQL query. The query is as follows:

```
1 SELECT animals.race_id , count(*) AS Total, race.name
2 FROM animals
3 INNER JOIN race
4     ON animals.race_id = race.id
5 GROUP BY race_id,
6     race.name;
```

Below the query editor, there are tabs for 'Data Output', 'Explain', 'Messages', and 'Notifications'. The 'Data Output' tab is active, showing the results of the query in a table format. The table has four columns: 'race\_id' (integer), 'total' (bigint), 'name' (character varying (40)), and an empty column. The results are as follows:

race_id	total	name	
1	7	Chausie	
2	2	Boxer	
3	4	American Curl	
4	6	Bengal	
5	8	Rottweiler	
6	3	American Bully	
7	1	Affenpinscher	

## 2. How many species exist in the races table? (Display all of their name)

ZOO/postgres@PostgreSQL 11

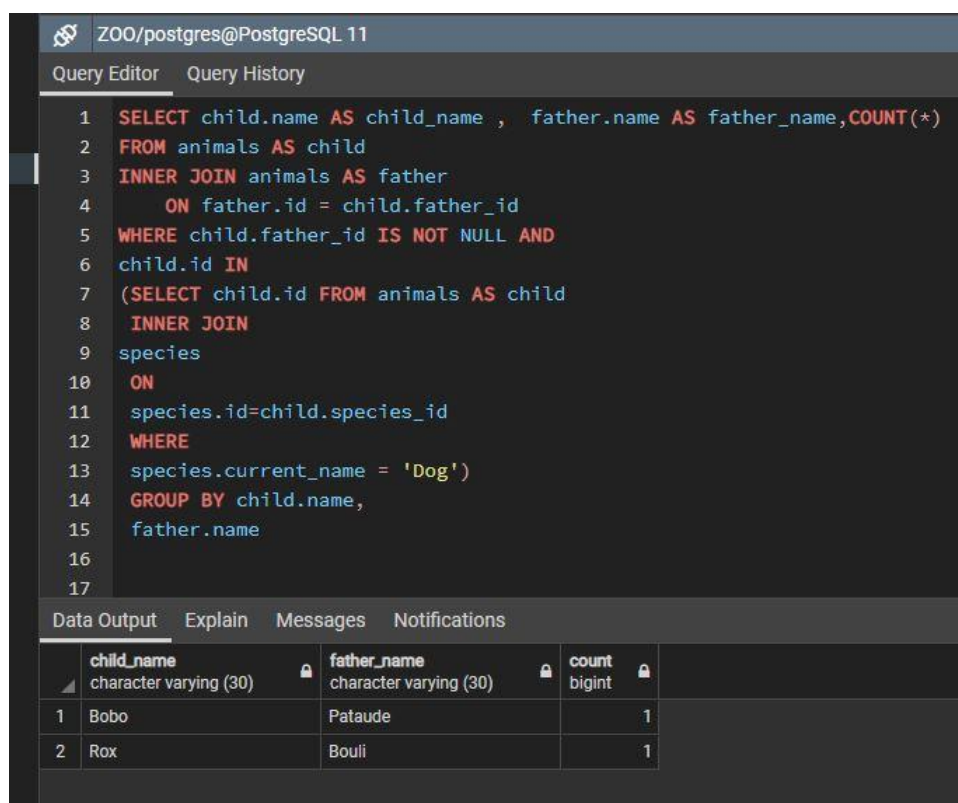
Query Editor Query History

```
1 SELECT animals.species_id , count(*) AS Total,species.current_name
2 FROM animals
3 INNER JOIN species
4     ON animals.species_id = species.id
5 GROUP BY species_id,
6     species.current_name;
```

Data Output Explain Messages Notifications

	species_id integer	total bigint	current_name character varying (50)
1	2	20	Cat
2	3	15	Turtle
3	1	22	Dog
4	4	4	Parrot

3. How many Dogs have a father? (Display the children's name and the father's name)



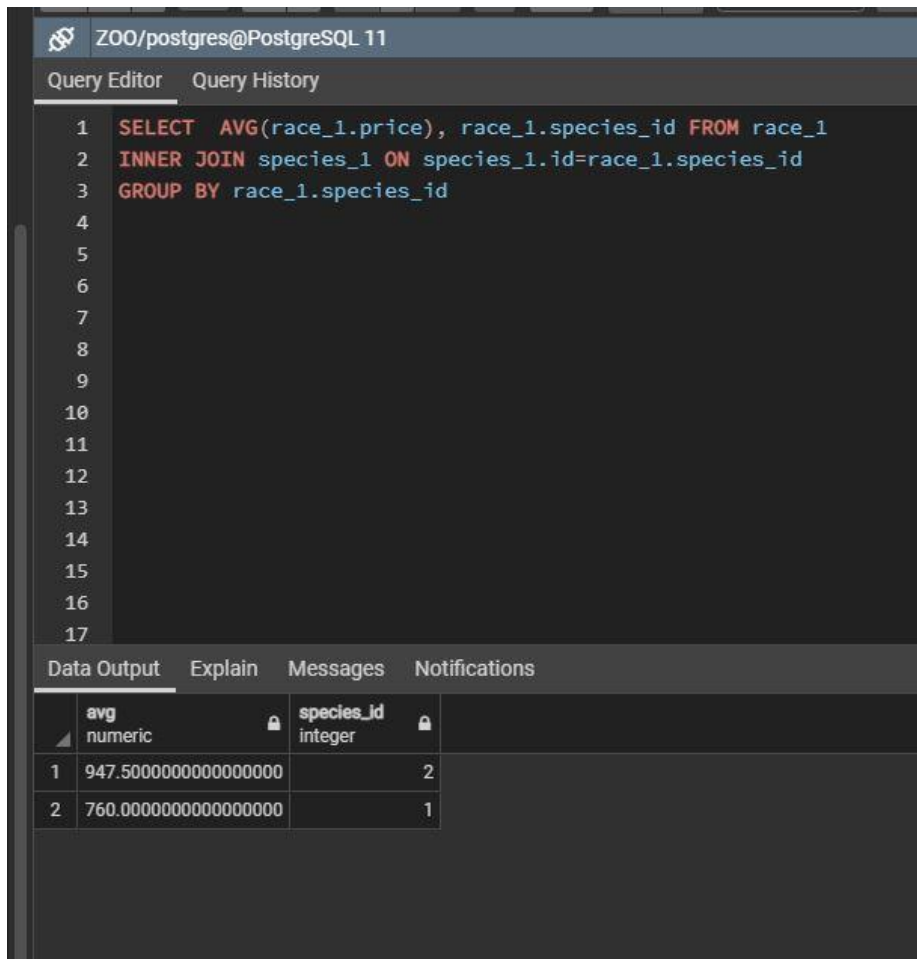
The screenshot shows a PostgreSQL Query Editor window with the following SQL query:

```
1 SELECT child.name AS child_name , father.name AS father_name, COUNT(*)
2 FROM animals AS child
3 INNER JOIN animals AS father
4     ON father.id = child.father_id
5 WHERE child.father_id IS NOT NULL AND
6 child.id IN
7 (SELECT child.id FROM animals AS child
8  INNER JOIN
9  species
10 ON
11 species.id=child.species_id
12 WHERE
13 species.current_name = 'Dog')
14 GROUP BY child.name,
15 father.name
16
17
```

The results are displayed in the Data Output tab:

	child_name character varying (30)	father_name character varying (30)	count bigint
1	Bobo	Pataude	1
2	Rox	Bouli	1

#### 4. What is the average race price of each specie?



The screenshot shows a PostgreSQL query editor window titled "ZOO/postgres@PostgreSQL 11". The "Query Editor" tab is active, displaying the following SQL query:

```
1 SELECT AVG(race_1.price), race_1.species_id FROM race_1
2 INNER JOIN species_1 ON species_1.id=race_1.species_id
3 GROUP BY race_1.species_id
4
5
6
7
8
9
10
11
12
13
14
15
16
17
```

Below the query editor, the "Data Output" tab is active, showing the results of the query in a table format. The table has two columns: "avg" (numeric) and "species\_id" (integer). The results are as follows:

	avg numeric	species_id integer
1	947.5000000000000000	2
2	760.0000000000000000	1

5. How many males and females exist in the animals table?

The screenshot shows a PostgreSQL query editor interface. The title bar indicates the connection is 'ZOO/postgres@PostgreSQL 11'. The 'Query Editor' tab is active, displaying the following SQL query:

```
1 SELECT sex , COUNT(*) FROM animals_1
2 WHERE sex='F' or sex='M'
3 GROUP BY sex
```

The 'Data Output' tab is also visible, showing the results of the query in a table format:

	sex character (1)	count bigint
1	M	27
2	F	31

6. Give the name of 6 random males and 4 random females.

ZOO/postgres@PostgreSQL 11

Query Editor Query History

```
1 (SELECT
2   name,
3   sex
4 FROM animals_1
5 WHERE
6   sex = 'F'
7 ORDER BY random() LIMIT 4)
8
9 UNION
10
11 (SELECT
12   name,
13   sex
14 FROM animals_1
15 WHERE
16   sex = 'M'
17 ORDER BY random() LIMIT 6)
18 ORDER BY sex
19
20
```

Data Output Explain Messages Notifications

	name character varying (30)	sex character (1)
1	Bobosse	F
2	Welva	F
3	Canaille	F
4	Anya	F
5	Bagherra	M
6	Yoda	M
7	Raccou	M
8	Bubulle	M
9	Balou	M
10	Bobo	M

## 7. How many animals have the same name length?

ZOO/postgres@PostgreSQL 11

Query Editor   Query History

```
1 SELECT length(a.name) AS "LENGTH OF THE NAME" , COUNT(*)
2 FROM animals_1 AS a
3 INNER JOIN animals_1 AS b ON b.id=a.id
4 WHERE length(b.name)=length (a.name)
5 GROUP BY length(a.name)
6 ;
7
8
9
10
11
12
13
14
15
16
17
18
19
20
```

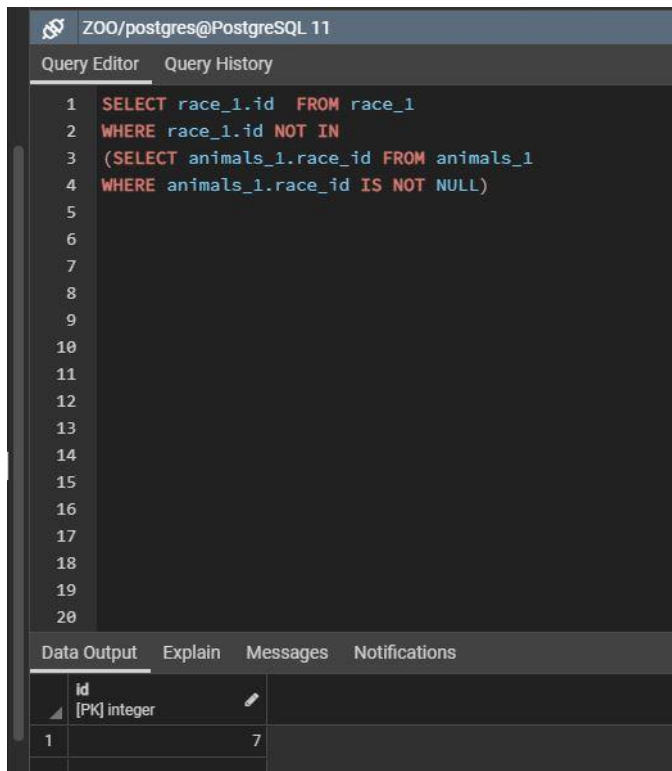
Data Output   Explain   Messages   Notifications

	LENGTH OF THE NAME integer	count bigint	
1	3	1	
2	4	12	
3	5	19	
4	6	8	
5	7	9	
6	8	8	
7	9	2	



## EASIER

1. Which race doesn't have any animal attached to it?



The screenshot shows a PostgreSQL query editor interface. The title bar indicates the connection is 'ZOO/postgres@PostgreSQL 11'. The 'Query Editor' tab is active, displaying a SQL query. The query is as follows:

```
1 SELECT race_1.id FROM race_1
2 WHERE race_1.id NOT IN
3 (SELECT animals_1.race_id FROM animals_1
4  WHERE animals_1.race_id IS NOT NULL)
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
```

Below the query editor, the 'Data Output' tab is active, showing the results of the query. The results are displayed in a table with the following structure:

	id
	[PK] integer
1	7

## 2. Which specie has less than 5 males (order by latin\_name alphabetically)

ZOO/postgres@PostgreSQL 11

Query Editor   Query History

```
1 SELECT species_1.latin_name, species_1.id FROM species_1
2 WHERE species_1.id IN
3 (SELECT animals_1.species_id FROM animals_1
4  WHERE sex = 'M'
5  GROUP BY animals_1.species_id
6  HAVING COUNT(sex) < 5)
7
8
9
10
11
12
13
14
15
16
17
18
19
20
```

Data Output   Explain   Messages   Notifications

	latin_name character varying (50)	id [PK] integer	
1	Testudo hermanni		3
2	Alipioptitta xanthops		4

### 3. What is the average animal age per species?

ZOO/postgres@PostgreSQL 11

Query Editor   Query History

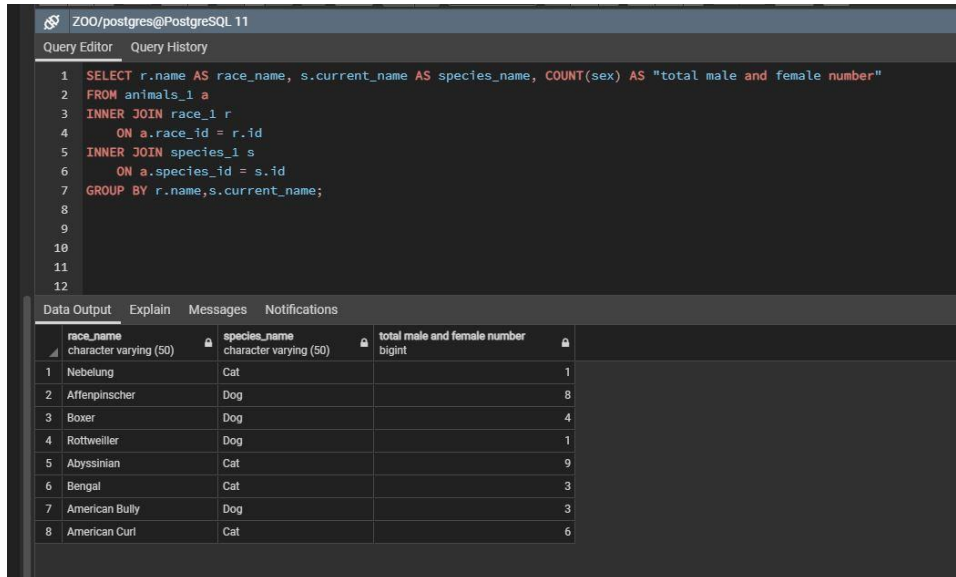
```
1 SELECT species_id, AVG( AGE(dob) ) FROM animals_1
2 WHERE species_id IS NOT NULL
3 GROUP BY species_id;
```

4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20

Data Output   Explain   Messages   Notifications

	species_id integer	avg interval
1	1	7 years 4 mons 21 days 19:05:28.596115
2	3	7 years 3 mons 28 days 30:56:40
3	4	7 years 2 mons 35 days 26:17:45
4	2	7 years 5 mons 18 days 33:50:37.1552

4. How many males and females of each race do we have? Do a total count for the race (male and female) and for the species. Display the race name and the current species name.



The screenshot shows a PostgreSQL query editor with a query that joins the 'animals\_1' table with 'race\_1' and 'species\_1' tables. The query counts the total number of males and females for each race and species combination. The results are displayed in a table with three columns: 'race\_name', 'species\_name', and 'total male and female number'.

```
1 SELECT r.name AS race_name, s.current_name AS species_name, COUNT(sex) AS "total male and female number"
2 FROM animals_1 a
3 INNER JOIN race_1 r
4     ON a.race_id = r.id
5 INNER JOIN species_1 s
6     ON a.species_id = s.id
7 GROUP BY r.name, s.current_name;
```

race_name	species_name	total male and female number
Nebelung	Cat	1
Affenpinscher	Dog	8
Boxer	Dog	4
Rottweiler	Dog	1
Abyssinian	Cat	9
Bengal	Cat	3
American Bully	Dog	3
American Curl	Cat	6

5. What would be the cost per species and the total cost to adopt: Parlotte, Spoutnik, Caribou, Cartouche, Cali, Canaille, Yoda, Zambo and Lulla?

ZOO/postgres@PostgreSQL 11

Query Editor Query History

```
1 SELECT animals_1.name , COALESCE(SUM(species_1.price +race_1.price),species_1.price) AS totall_price
2 FROM animals_1
3
4 INNER JOIN species_1 ON
5 species_1.id=animals_1.species_id
6
7 LEFT JOIN race_1 ON
8 race_1.id=animals_1.race_id
9
10 WHERE animals_1.name IN ('Parlotte', 'Spoutnik', 'Caribou', 'Cartouche', 'Cali', 'Canaille', 'Yoda', 'Zambo' , 'Lulla')
11 GROUP BY animals_1.name,species_1.price
12
```

Data Output Explain Messages Notifications

	name character varying (30)	totall_price numeric
1	Cali	1135.00
2	Canaille	200.00
3	Caribou	985.00
4	Cartouche	200.00
5	Lulla	140.00
6	Parlotte	700.00
7	Spoutnik	140.00
8	Yoda	885.00
9	Zambo	685.00

6. What's the median price of the species?

(median = (max + min)/2)

The screenshot shows a PostgreSQL query editor interface. The title bar indicates the user is 'ZOO/postgres@PostgreSQL 11'. The 'Query Editor' tab is active, displaying the following SQL query:

```
1 SELECT (max(price) + min(price))/2 AS median FROM species_1
2
3
4
5
6
7
8
9
10
11
12
```

Below the query editor, the 'Data Output' tab is active, showing the result of the query. The result is a single row with the following data:

	median numeric
1	355.0000000000000000

7. Assuming the inflation rises 20% more every year, show the prices of each animal for the next 5 years. (based on specie's race)

ZOO/postgres@PostgreSQL 11

Query Editor Query History

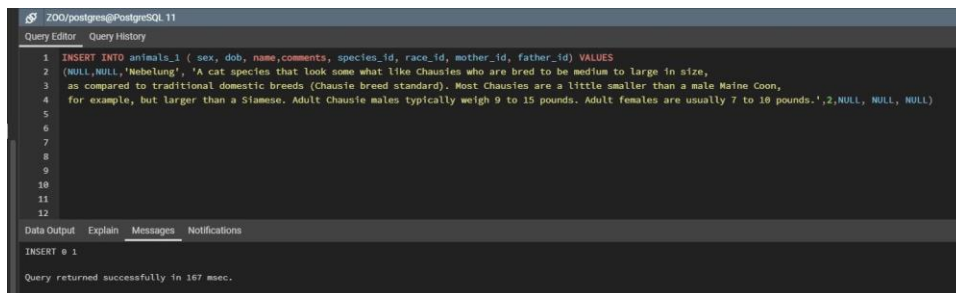
```
1 (SELECT current_name, price, price * .20 AS inflation_price_per_year, price *2 AS total_price_after_5years
2 FROM species_1);
3
4
5
6
7
8
9
10
11
12
```

Data Output Explain Messages Notifications

	current_name character varying (50)	price numeric (7,2)	inflation_price_per_year numeric	total_price_after_5years numeric
1	Dog	200.00	40.0000	400.00
2	Cat	150.00	30.0000	300.00
3	Turtle	140.00	28.0000	280.00
4	Parrot	700.00	140.0000	1400.00
5	Brown Rat	10.00	2.0000	20.00

8. insert this animal into your table:

**'Nebelung', 2, 'A cat species that look some what like Chausies who are bred to be medium to large in size, as compared to traditional domestic breeds (Chausie breed standard). Most Chausies are a little smaller than a male Maine Coon, for example, but larger than a Siamese. Adult Chausie males typically weigh 9 to 15 pounds. Adult females are usually 7 to 10 pounds.'**



```
1 INSERT INTO animals_1 ( sex, dob, name, comments, species_id, race_id, mother_id, father_id) VALUES
2 (NULL, NULL, 'Nebelung', 'A cat species that look some what like Chausies who are bred to be medium to large in size,
3 as compared to traditional domestic breeds (Chausie breed standard). Most Chausies are a little smaller than a male Maine Coon,
4 for example, but larger than a Siamese. Adult Chausie males typically weigh 9 to 15 pounds. Adult females are usually 7 to 10 pounds.', 2, NULL, NULL, NULL)
5
6
7
8
9
10
11
12
```

Data Output Explain Messages Notifications

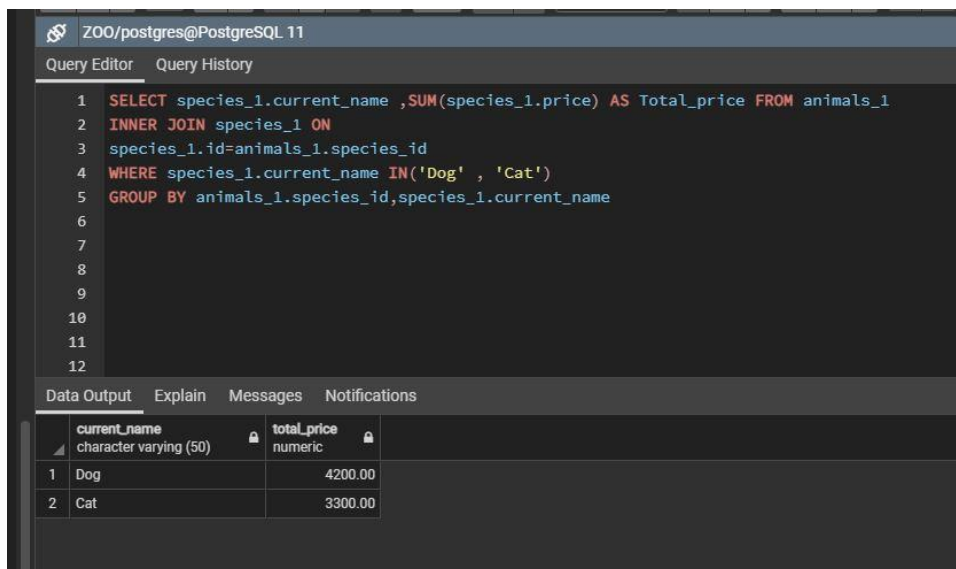
INSERT 0 1

Query returned successfully in 167 msec.



## EASIEST

1. How much would it cost me to buy all the Dogs and all the Cats. Show the total per species and the overall total.



The screenshot shows a PostgreSQL query editor interface. The top bar indicates the connection is 'ZOO/postgres@PostgreSQL 11'. Below this, there are tabs for 'Query Editor' and 'Query History'. The query editor contains the following SQL code:

```
1 SELECT species_1.current_name ,SUM(species_1.price) AS Total_price FROM animals_1
2 INNER JOIN species_1 ON
3 species_1.id=animals_1.species_id
4 WHERE species_1.current_name IN('Dog' , 'Cat')
5 GROUP BY animals_1.species_id,species_1.current_name
6
7
8
9
10
11
12
```

Below the query editor, there are tabs for 'Data Output', 'Explain', 'Messages', and 'Notifications'. The 'Data Output' tab is active, showing the results of the query in a table format:

	current_name character varying (50)	total_price numeric
1	Dog	4200.00
2	Cat	3300.00

**2. What is the average price of all the Dogs and the average price of all the Cats.**

Query Editor

Query History

1

2

3

4

5

6

7

8

9

10

11

12

```
SELECT species_1.current_name ,AVG(species_1.price) AS Total_price FROM animals_1
INNER JOIN species_1 ON
species_1.id=animals_1.species_id
WHERE species_1.current_name IN('Dog' , 'Cat')
GROUP BY animals_1.species_id,species_1.current_name
```

Data Output

Explain


Messages

Notifications

	current_name character varying (50)	total_price numeric
1	Dog	200.000000000000000000
2	Cat	150.000000000000000000

**3. Would it cost more to buy all the males or all the females animals based on their race price?**

(if the race price is null, or the animal doesn't have a race attached to it, use their specie's price)

ZOO/postgres@PostgreSQL 11

Query Editor

Query History

```
1  SELECT animals_1.sex , COALESCE(SUM(species_1.price +race_1.price)) AS totall_price
2  FROM animals_1
3
4  INNER JOIN species_1 ON
5  species_1.id=animals_1.species_id
6
7  LEFT JOIN race_1 ON
8  race_1.id=animals_1.race_id
9
10 WHERE animals_1.sex IN ('M', 'F')
11 GROUP BY animals_1.sex
12
```

Data Output

Explain

Messages

Notifications

	<div>sex</div> <div>character (1)</div>	<div>total_price</div> <div>numeric</div>
1	M	13510.00
2	F	15910.00

4. Show a sentence giving the price of the species, for each species ex: The Dogs cost: 200\$...

ZOO/postgres@PostgreSQL 11

Query Editor

Query History

1

2

3

4

5

6

7

8

9

10

11

12

```
SELECT concat('The', ' ',current_name,'s is cost:', ' ',price) "sentences", species_1.current_name, species_1.price FROM species_1
```

Data Output

Explain

Messages

Notifications

sentences

text

current\_name

character varying (30)

price

numeric (7,2)

1

2

3

4

5

The Dogs is cost: 200.00

The Cats is cost: 150.00

The Turtles is cost: 140.00

The Parrots is cost: 700.00

The Brown Rats is cost: 10.00

Dog

Cat

Turtle

Parrot

Brown Rat

200.00

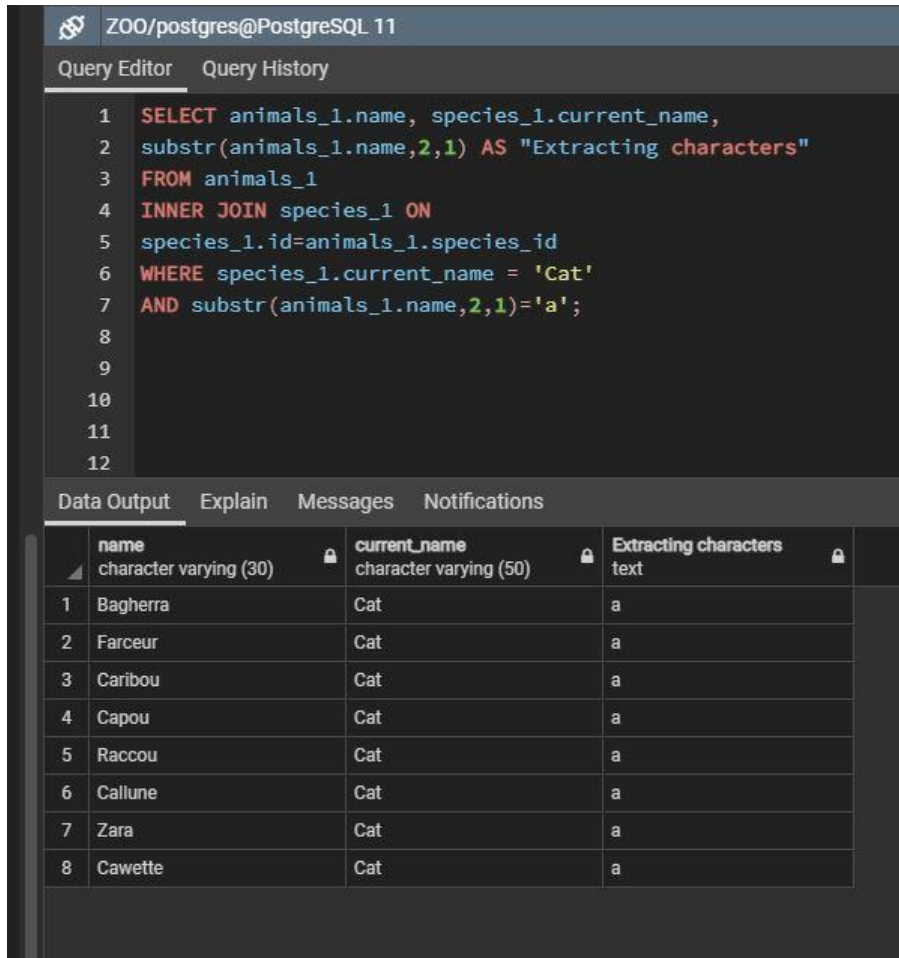
150.00

140.00

700.00

10.00

5. Show the cats with the letter "a" as the second letter in their name.



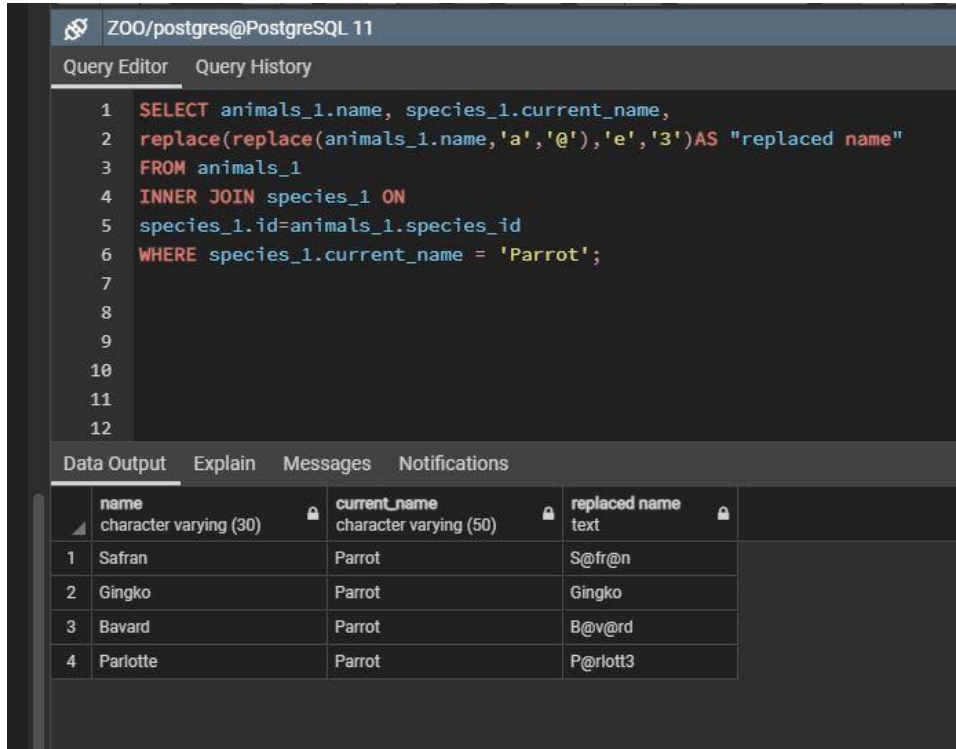
The screenshot shows a PostgreSQL query editor interface. The top bar indicates the connection is to 'ZOO/postgres@PostgreSQL 11'. Below this, there are tabs for 'Query Editor' and 'Query History'. The 'Query Editor' tab is active, displaying a SQL query. The query is as follows:

```
1 SELECT animals_1.name, species_1.current_name,  
2 substr(animals_1.name,2,1) AS "Extracting characters"  
3 FROM animals_1  
4 INNER JOIN species_1 ON  
5 species_1.id=animals_1.species_id  
6 WHERE species_1.current_name = 'Cat'  
7 AND substr(animals_1.name,2,1)='a';  
8  
9  
10  
11  
12
```

Below the query editor, there are tabs for 'Data Output', 'Explain', 'Messages', and 'Notifications'. The 'Data Output' tab is active, showing the results of the query in a table format. The table has four columns: 'name', 'current\_name', and 'Extracting characters'. The 'name' column is of type 'character varying (30)', 'current\_name' is 'character varying (50)', and 'Extracting characters' is 'text'. There are 8 rows of data, each with an index from 1 to 8.

	name character varying (30)	current_name character varying (50)	Extracting characters text
1	Bagherra	Cat	a
2	Farceur	Cat	a
3	Caribou	Cat	a
4	Capou	Cat	a
5	Raccou	Cat	a
6	Callune	Cat	a
7	Zara	Cat	a
8	Cawette	Cat	a

6. Show the names of parrots by replacing "a" with "@" and "e" with "3".



The screenshot shows a PostgreSQL query editor interface. The top bar indicates the connection is 'ZOO/postgres@PostgreSQL 11'. Below the bar are tabs for 'Query Editor' and 'Query History'. The query editor contains a SQL query that selects the name and current name of parrots, replacing 'a' with '@' and 'e' with '3'. The query is as follows:

```
1 SELECT animals_1.name, species_1.current_name,  
2 replace(replace(animals_1.name,'a','@'),'e','3') AS "replaced name"  
3 FROM animals_1  
4 INNER JOIN species_1 ON  
5 species_1.id=animals_1.species_id  
6 WHERE species_1.current_name = 'Parrot';  
7  
8  
9  
10  
11  
12
```

Below the query editor are tabs for 'Data Output', 'Explain', 'Messages', and 'Notifications'. The 'Data Output' tab is active, displaying a table with the results of the query:

	name character varying (30)	current_name character varying (50)	replaced name text
1	Safran	Parrot	S@fr@n
2	Gingko	Parrot	Gingko
3	Bavard	Parrot	B@v@rd
4	Parlotte	Parrot	P@rlott3

## 7. Show the dogs with an even number of letters in their names.

ZOO/postgres@PostgreSQL 11

Query Editor   Query History

```
1 SELECT animals_1.name, species_1.current_name,
2 char_length(animals_1.name ) AS "Length of Name"
3 FROM animals_1
4 INNER JOIN species_1 ON
5 species_1.id=animals_1.species_id
6 WHERE species_1.current_name = 'Dog'
7 AND char_length(animals_1.name ) % 2 = 0;
8
9
10
11
12
```

Data Output   Explain   Messages   Notifications

	name character varying (30)	current_name character varying (50)	Length of Name integer
1	Caroline	Dog	8
2	Bobo	Dog	4
3	Canaille	Dog	8
4	Cali	Dog	4
5	Rouquine	Dog	8
6	Fila	Dog	4
7	Anya	Dog	4
8	Zira	Dog	4
9	Java	Dog	4
10	Moka	Dog	4
11	Pipo	Dog	4

**8. Show the taxes you would pay on each animals and the total price. Assuming GST = 5% and HST = 9.9975% (Round to the tens)**

**ex: Price: 10\$ GST: 0.5\$ HST: 0.99975\$ Total: 11.5\$**

```

1 SELECT animals_1.name , COALESCE(SUM(species_1.price +race_1.price),species_1.price) AS totall_price_without_tax
2 ,COALESCE(SUM(species_1.price +race_1.price),species_1.price)* .05 AS GST_tax,
3 COALESCE(SUM(species_1.price +race_1.price),species_1.price)* .099975 AS HST_tax,
4 COALESCE(SUM(species_1.price +race_1.price),species_1.price)* (1+.05+.099975) AS Total_price_after_tax
5 FROM animals_1
6
7 INNER JOIN species_1 ON
8 species_1.id=animals_1.species_id
9
10 LEFT JOIN race_1 ON
11 race_1.id=animals_1.race_id
12

```

Data Output Explain Messages Notifications

	name character varying (30)	total_price_without_tax numeric	gst_tax numeric	hst_tax numeric	total_price_after_tax numeric
1	Cheli	140.00	7.0000	13.99650000	160.99650000
2	Cawette	1135.00	56.7500	113.47162500	1305.22162500
3	Bagherra	885.00	44.2500	88.47787500	1017.72787500
4	Louya	200.00	10.0000	19.99500000	229.99500000
5	Choupi	150.00	7.5000	14.99625000	172.49625000
6	Anyu	200.00	10.0000	19.99500000	229.99500000
7	Pipo	835.00	41.7500	83.47912500	960.22912500
8	Spoutnik	140.00	7.0000	13.99650000	160.99650000
9	Java	1135.00	56.7500	113.47162500	1305.22162500
10	Zira	685.00	34.2500	68.48287500	787.73287500
11	Snory	985.00	49.2500	98.47537500	1132.72537500
12	Milla	885.00	44.2500	88.47787500	1017.72787500
13	Fila	1135.00	56.7500	113.47162500	1305.22162500
14	Moka	1185.00	59.2500	118.47037500	1362.72037500
15	Samba	685.00	34.2500	68.48287500	787.73287500
16	Roucky	150.00	7.5000	14.99625000	172.49625000
17	Carlouche	200.00	10.0000	19.99500000	229.99500000
18	Bouli	685.00	34.2500	68.48287500	787.73287500
19	Filou	985.00	49.2500	98.47537500	1132.72537500



ZOO/postgres@PostgreSQL 11					
Query Editor   Query History					
<pre> 1  SELECT animals_1.name , COALESCE(SUM(species_1.price +race_1.price),species_1.price 2  ,COALESCE(SUM(species_1.price +race_1.price),species_1.price)* .05 AS GST_tax, 3  COALESCE(SUM(species_1.price +race_1.price),species_1.price)* .099975 AS HST_tax, </pre>					
Data Output   Explain   Messages   Notifications					
	name character varying (30)	total_price_without_tax numeric	gst_tax numeric	hst_tax numeric	total_price_after_tax numeric
13	Fila	1135.00	56.7500	113.47162500	1305.22162500
14	Moka	1185.00	59.2500	118.47037500	1362.72037500
15	Samba	685.00	34.2500	68.48287500	787.73287500
16	Roucky	150.00	7.5000	14.99625000	172.49625000
17	Cartouche	200.00	10.0000	19.99500000	229.99500000
18	Bouli	685.00	34.2500	68.48287500	787.73287500
19	Filou	985.00	49.2500	98.47537500	1132.72537500
20	Gingko	700.00	35.0000	69.98250000	804.98250000
21	Capou	885.00	44.2500	88.47787500	1017.72787500
22	Nikki	140.00	7.0000	13.99650000	160.99650000
23	Bulbizard	140.00	7.0000	13.99650000	160.99650000
24	Boule	150.00	7.5000	14.99625000	172.49625000
25	Zambo	685.00	34.2500	68.48287500	787.73287500
26	Tortilla	140.00	7.0000	13.99650000	160.99650000
27	Balou	685.00	34.2500	68.48287500	787.73287500
28	Bubulle	140.00	7.0000	13.99650000	160.99650000
29	Bobo	200.00	10.0000	19.99500000	229.99500000
30	Caribou	985.00	49.2500	98.47537500	1132.72537500
31	Chicaca	140.00	7.0000	13.99650000	160.99650000
32	Farceur	885.00	44.2500	88.47787500	1017.72787500
33	Bavard	700.00	35.0000	69.98250000	804.98250000
34	Boucan	150.00	7.5000	14.99625000	172.49625000
35	Zonko	885.00	44.2500	88.47787500	1017.72787500
36	Bilba	885.00	44.2500	88.47787500	1017.72787500
37	Rox	685.00	34.2500	68.48287500	787.73287500
38	Dana	140.00	7.0000	13.99650000	160.99650000

ZOO/postgres@PostgreSQL 11						
Query Editor   Query History						
<pre> 1 SELECT animals_1.name , COALESCE(SUM(species_1.price +race_1.price),spe 2 ,COALESCE(SUM(species_1.price +race_1.price),species_1.price)* .05 AS G 3 COALESCE(SUM(species_1.price +race_1.price),species_1.price)* .099975 A </pre>						
Data Output   Explain   Messages   Notifications						
	name character varying (30)	total_price_without_tax numeric	gst_tax numeric	hst_tax numeric	total_price_after_tax numeric	
36	Bilba	885.00	44.2500	88.47787500	1017.72787500	
37	Rox	685.00	34.2500	68.48287500	787.73287500	
38	Dana	140.00	7.0000	13.99650000	160.99650000	
39	Relou	140.00	7.0000	13.99650000	160.99650000	
40	Feta	985.00	49.2500	98.47537500	1132.72537500	
41	Yoda	885.00	44.2500	88.47787500	1017.72787500	
42	Callune	985.00	49.2500	98.47537500	1132.72537500	
43	Rouquine	685.00	34.2500	68.48287500	787.73287500	
44	Raccou	985.00	49.2500	98.47537500	1132.72537500	
45	Cali	1135.00	56.7500	113.47162500	1305.22162500	
46	Welva	1185.00	59.2500	118.47037500	1362.72037500	
47	[null]	140.00	7.0000	13.99650000	160.99650000	
48	Safran	700.00	35.0000	69.98250000	804.98250000	
49	Cracotte	885.00	44.2500	88.47787500	1017.72787500	
50	Pataude	1185.00	59.2500	118.47037500	1362.72037500	
51	Nebelung	150.00	7.5000	14.99625000	172.49625000	
52	Parlotte	700.00	35.0000	69.98250000	804.98250000	
53	Canaille	200.00	10.0000	19.99500000	229.99500000	
54	Zara	885.00	44.2500	88.47787500	1017.72787500	
55	Scroupy	140.00	7.0000	13.99650000	160.99650000	
56	Caroline	1135.00	56.7500	113.47162500	1305.22162500	
57	Pilou	685.00	34.2500	68.48287500	787.73287500	
58	Bobosse	140.00	7.0000	13.99650000	160.99650000	
59	Redbul	140.00	7.0000	13.99650000	160.99650000	
60	Fiero	150.00	7.5000	14.99625000	172.49625000	
61	Lulla	140.00	7.0000	13.99650000	160.99650000	

**9. Give a nickname to all the animals with the following criteria:**

**-max 10 characters**

**-all lower cases**

**-based on the reverse of their current name**

**-starts their id**

**-ends with their original name length**

**-padding with "@"**

ZOO/postgres@PostgreSQL 11

Query Editor Query History

```
1 SELECT animals_1.name , rpads(concat(id,reverse(lower(name)),length(name)),10,'@') AS Nickname FROM animals_1
2
3
```

Data Output Explain Messages Notifications

	name character varying (30)	nickname text
1	Rox	1xor3@@@@@
2	Roucky	2ykcuo6@@
3	Snory	3yrns5@@@@
4	[null]	4@@@@@@@@@
5	Choupi	5ipuohc6@@
6	Bobosse	6essobob7@
7	Caroline	7enilorac8
8	Baghera	8arrehgab8
9	[null]	9@@@@@@@@@
10	Bobo	10obob4@@@@
11	Canaille	11ellianac
12	Cali	12liac4@@@
13	Rouquine	13enluquor
14	Fila	14alif4@@@
15	Anyia	15ayna4@@@
16	Louya	16ayuol5@@
17	Welva	17avlew5@@
18	Zira	18ariz4@@@
19	Java	19avaj4@@@
20	Balou	20uolab5@@
21	Pataude	21eduatap7
22	Bouli	22iluob5@@
23	Carlouche	23ehcuotra
24	Zambo	24obmaz5@@
25	Samiba	25abmas5@@
26	Moka	26akom4@@@

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Query Editor Query History

```
1 SELECT animals_1.name , rpads(concat(id,reverse(lower(name)),length(name)),10,'@') AS Nickname FROM animals_1
2
3
```

Data Output Explain Messages Notifications

	name character varying (30)	nickname text
29	Zonko	29oknoz5@@
30	Filou	30uolif5@@
31	Farceur	31ruecra7
32	Caribou	32uobirac7
33	Capou	33uopac5@@
34	Raccou	34uoccar6@
35	Boucan	35nacuib6@
36	Callune	36enuilac7
37	Boule	37eluob5@@
38	Zara	38araz4@@@
39	Milla	39allim5@@
40	Feta	40atef4@@@
41	Bilba	41ablib5@@
42	Cracotte	42ettocarc
43	Cawette	43ettewac7
44	Nikki	44ikkin5@@
45	Tortilla	45allitrot
46	Scroupy	46ypuorcs7
47	Lulia	47allui5@@
48	Dana	48anad4@@@
49	Cheli	49lehc5@@
50	Chicaca	50acacihc7
51	Redbul	51lubder6@
52	Spoutnik	52kintuops
53	Bubulle	53ellubub7
54	Relou	54uoler5@@

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Query EditorQuery History

1SELECT animals\_1.name , rpad(concat(id,reverse(lower(name)),length(name)),10,'@') AS Nickname FROM animals\_1

2

3

Data Output

Explain

Messages

Notifications

	name	nickname
	character varying (30)	text
37	Boule	37elub5@@
38	Zara	38araz4@@@
39	Milla	39allim5@@
40	Feta	40atef4@@@
41	Bilba	41abib5@@
42	Cracotte	42ettocarc
43	Cawette	43ettewac7
44	Nikki	44ikkin5@@
45	Tortilla	45allitrot
46	Scroupy	46ypuorcs7
47	Lulla	47allui5@@
48	Dana	48anad4@@@
49	Chelli	49liehc5@@
50	Chicaca	50acacihc7
51	Redbul	51lubder6@
52	Sputnik	52kintuops
53	Bubulle	53ellubub7
54	Relou	54uoler5@@
55	Bulbizard	55draziblu
56	Safran	56narfas6@
57	Gingko	57okgnig6@
58	Bavard	58dravab6@
59	Pariotte	59ettoirap
60	Yoda	60adoy4@@@
61	Pipo	61opip4@@@
62	Nebelung	63gnuleben