

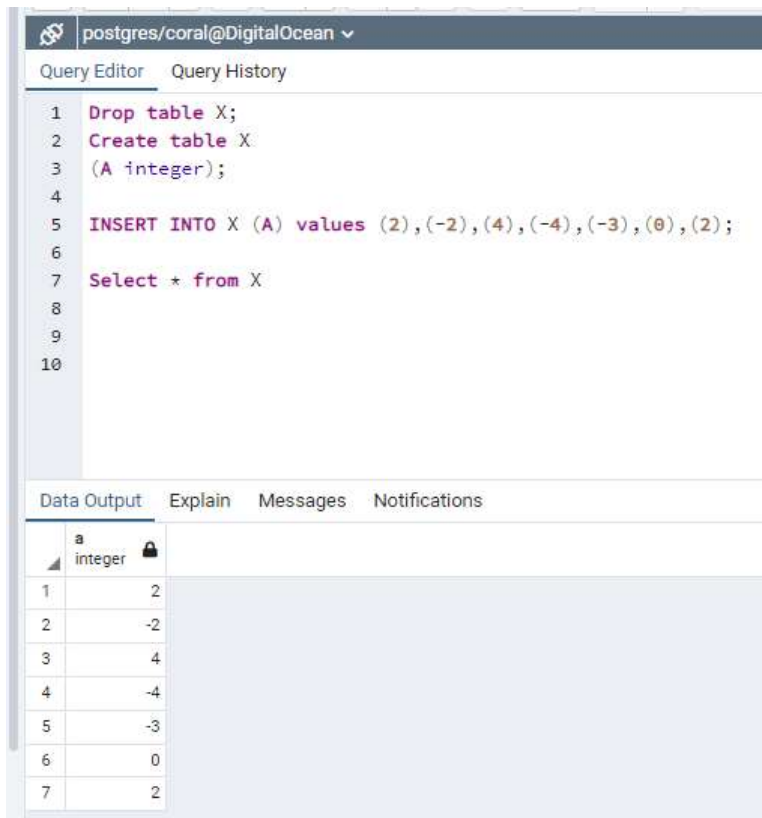
SQL - Results

Given the following table (X):

A
2
-2
4
-4
-3
0
2

- 1) Write a single query to calculate the sum of all positive values and save it as **sum_positive** and the sum of all negative values and save it as **sum_negative**.

Create a table



postgres/coral@DigitalOcean

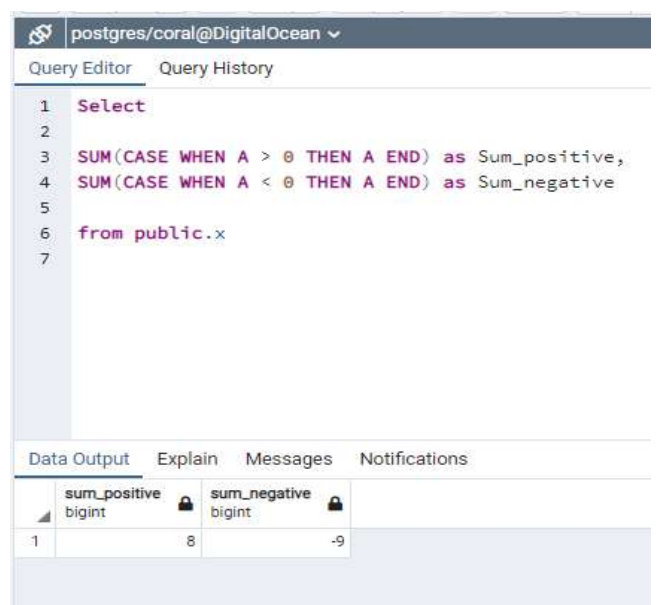
Query Editor Query History

```
1 Drop table X;
2 Create table X
3 (A integer);
4
5 INSERT INTO X (A) values (2),(-2),(4),(-4),(-3),(0),(2);
6
7 Select * from X
8
9
10
```

Data Output Explain Messages Notifications

	a
1	2
2	-2
3	4
4	-4
5	-3
6	0
7	2

Single Query



postgres/coral@DigitalOcean

Query Editor Query History

```
1 Select
2
3 SUM(CASE WHEN A > 0 THEN A END) as Sum_positive,
4 SUM(CASE WHEN A < 0 THEN A END) as Sum_negative
5
6 from public.x
7
```

Data Output Explain Messages Notifications

	sum_positive	sum_negative
1	8	-9

Given the table (X):

Length
5.67
34.567
365.253
34

2) Write a query that produces the output:

Length	m	cm
5.67	5	67
34.567	34	567
365.253	365	253
34	34	0

Create a table

Query - floor - case when

postgres/coral@DigitalOcean

Query EditorQuery History

```
1 Drop table Q2;
2 Create table Q2
3 (n_Length numeric);
4
5 INSERT INTO Q2 (n_Length)
6 values (5.67),(34.567),(365.253),(34);
7
8 Select * from Q2
```

Data Output

Explain

Messages

Notifications

	n_Length numeric
1	5.67
2	34.567
3	365.253
4	34

postgres/coral@DigitalOcean

Query EditorQuery History

```
1 select
2     n_length,
3     floor(n_length) as m,
4     cast ((n_length - floor(n_length)) *
5         case
6             WHEN n_length < 10 THEN 100
7             WHEN n_length > 10 THEN 1000
8         end as int ) as cm
9 from q2
```

Data Output

Explain

Messages

Notifications

	n_length numeric	m numeric	cm integer
1	5.67	5	67
2	34.567	34	567
3	365.253	365	253
4	34	34	0

Given the two tables (Employee, Reward):


Employee:

Employee_id	First_name	Last_name	Salary	Joining_date	Departement
1	Bob	Kinto	1000000	2019-01-20	Finance
2	Jerry	Kansxo	6000000	2019-01-15	IT
3	Philip	Jose	8900000	2019-02-05	Banking
4	John	Abraham	2000000	2019-02-25	Insurance
5	Michael	Mathew	2200000	2019-02-28	Finance
6	Alex	chreketo	4000000	2019-05-10	IT
7	Yohan	Soso	1230000	2019-06-20	Banking

Reward:

Employee_ref_id	date_reward	amount
1	2019-05-11	1000
2	2019-02-15	5000
3	2019-04-22	2000
1	2019-06-20	8000

Create two tables

 postgres/coral@DigitalOcean

Query Editor
 Query History

```

1 drop table Employee;
2 Create table Employee (
3 Employee_id integer primary key ,
4 First_name varchar(255),
5 Last_name varchar (255),
6 Salary integer,
7 joining_date date,
8 Departtement varchar(255)
9 );
10 insert into Employee (Employee_id, First_name, Last_name, Salary, joining_date, Departtement)
11 values
12 (1, 'Bob', 'Kinto', 1000000, '2019-01-20', 'Finance'),
13 (2, 'Jerry', 'Kansxo', 6000000, '2019-01-15', 'IT'),
14 (3, 'Philip', 'Jose', 8900000, '2019-02-05', 'Banking'),
15 (4, 'John', 'Abraham', 2000000, '2019-02-25', 'Insurance'),
16 (5, 'Michael', 'Mathew', 2200000, '2019-02-28', 'Finance'),
17 (6, 'Alex', 'chreketo', 4000000, '2019-05-10', 'IT'),
18 (7, 'Yohan', 'Soso', 1230000, '2019-06-20', 'Banking');
    
```

Data Output
 Explain
Messages
Notifications

	employee_id [PK] integer	first_name character varying (255)	last_name character varying (255)	salary integer	joining_date date	departtement character varying (255)
1	1	Bob	Kinto	1000000	2019-01-20	Finance
2	2	Jerry	Kansxo	6000000	2019-01-15	IT
3	3	Philip	Jose	8900000	2019-02-05	Banking
4	4	John	Abraham	2000000	2019-02-25	Insurance
5	5	Michael	Mathew	2200000	2019-02-28	Finance
6	6	Alex	chreketo	4000000	2019-05-10	IT

postgres/coral@DigitalOcean

Query Editor Query History

```

1 Drop table Reward;
2 Create table Reward (
3 Employee_ref_id integer,
4 date_reward date,
5 amount integer);
6
7 insert into Reward (Employee_ref_id, date_reward, amount)
8 values
9 (1, '2019-05-11', 1000),
10 (2, '2019-02-15', 5000),
11 (3, '2019-04-22', 2000),
12 (1, '2019-06-20', 8000);
13
14 Select * from Reward;

```

Data Output Explain Messages Notifications

	employee_ref_id integer	date_reward date	amount integer
1	1	2019-05-11	1000
2	2	2019-02-15	5000
3	3	2019-04-22	2000
4	1	2019-06-20	8000

3) Get 35% of Bob's salary, 50% of Alex's salary, and 25% of other employees' salaries.

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Query Editor Query History

```

1 Select salary*0.35 from public.employee
2 where first_name = 'Bob';
3
4 -- Select salary*0.50 from public.employee
5 -- where first_name = 'Alex';
6
7 --Select First_name, salary*0.25 from public.employee
8 --where first_name not in ('Bob','Alex');

```

Bob 350000

Alex 2000000

	Data Output	Explain	Messages	Notifications
	first_name character varying (255)	?column? numeric		
1	Jerry	1500000.00		
2	Philip	2225000.00		
3	John	500000.00		
4	Michael	550000.00		
5	Yohan	307500.00		

4) Update the reward of "Bob" to 1000.

Query - update - set

postgres/coral@DigitalOcean ▾

Query Editor Query History

```
1 Update public.reward
2 set amount = 1000
3 where Employee_ref_id = 1;
4
5 Select * from public.reward
```

Data Output Explain Messages Notifications

	employee_ref_id integer		date_reward date	amount integer
1	2	2019-02-15	5000	
2	3	2019-04-22	2000	
3	1	2019-05-11	1000	
4	1	2019-06-20	1000	

5) Get the first name, the reward amount for employees who have rewards with an amount greater than, equal to 2000.

Query - join - alias

postgres/coral@DigitalOcean ▾

Query Editor Query History

```
1 Select
2 first_name,
3 amount
4 from public.employee as e
5 join public.reward as rw on e.employee_id = rw.employee_ref_id
6 where amount >= 2000;
7
```

Data Output Explain Messages Notifications

	first_name character varying (255)	amount integer
1	Jerry	5000
2	Philip	2000

- 6) Get the first name, the reward amount for employees even if they did not receive any rewards, and set a reward amount equal to 0 for the employees who did not receive rewards.

Query - case when - join

postgres/coral@DigitalOcean

Query Editor Query History

```
1 Select
2 first_name,
3
4 case
5     when amount is null then 0
6     else amount
7 end
8 from public.employee as e
9 left outer join public.reward as rw on e.employee_id = rw.employee_ref_id;
```

Data Output Explain Messages Notifications

	first_name character varying (255)	amount integer
1	Jerry	5000
2	Philip	2000
3	Bob	1000
4	Bob	1000
5	Michael	0
6	Alex	0
7	John	0
8	Yohan	0