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Query Editor  Query History

1  select * from employees
2  select * from shops
3  select * from locations
4  select * from suppliers
5
6  -- Select only the employees who make more than 50K
7  select first_name, last_name from employees
8  where salary > 50000
9  -- Select only the employees who work in Common Grounds coffeeshop
10 select emp.first_name, emp.last_name, sh.coffeeshop_name from employees emp
11 inner join shops sh
12 on sh.coffeeshop_id = emp.coffeeshop_id
13 where sh.coffeeshop_name = 'Common Grounds'
14
```

```
Query Editor  Query History

14 -- Select only the employees who work in Common Grounds coffeeshop AND make more than 50K
15 select emp.first_name, emp.last_name, sh.coffeeshop_name, emp.salary from employees emp
16 inner join shops sh
17 on sh.coffeeshop_id = emp.coffeeshop_id
18 where sh.coffeeshop_name = 'Common Grounds' and emp.salary > 50000
19 -- Select only the employees who work in Common Grounds coffeeshop OR make more than 50K
20 select emp.first_name, emp.last_name, sh.coffeeshop_name, emp.salary from employees emp
21 inner join shops sh
22 on sh.coffeeshop_id = emp.coffeeshop_id
23 where sh.coffeeshop_name = 'Common Grounds' or emp.salary > 50000
24 -- Select all the employees who work in Common Grounds, make more than 50K and are male
25 select emp.first_name, emp.last_name, sh.coffeeshop_name, emp.salary, emp.gender from employees emp
26 inner join shops sh
27 on sh.coffeeshop_id = emp.coffeeshop_id
28 where sh.coffeeshop_name = 'Common Grounds' and emp.salary > 50000 and emp.gender = 'M'
```

Data Output Explain Messages Notifications

	first_name character varying (50)	last_name character varying (50)	coffeeshop_name character varying (50)	salary integer	gender character varying (1)
1	Khalil	Corr	Common Grounds	52802	M

Query Editor Query History

```
1 -- IS, IS NOT, IN, NOT IN, IS NULL, BETWEEN operators
2 select * from employees
3 select * from shops
4 select * from locations
5 select * from suppliers
6 -- Select all rows from the suppliers table where the supplier is 'Beans and Barley'
7 select * from suppliers
8 where supplier_name = 'Beans and Barley'
9 -- Select all rows from the suppliers table where the supplier IS NOT 'Beans and Barley'
10 select * from suppliers
11 where supplier_name != ('Beans and Barley')
12 -- Select all Robusta and Arabica coffee types
13 select * from suppliers
14 where coffee_type IN ('Arabica', 'Robusta')
15
```

Data Output Explain Messages Notifications

	coffeeshop_id [PK] integer	supplier_name [PK] character varying (50)	coffee_type character varying (50)
1	1	Beans and Barley	Arabica
2	1	Cool Beans	Robusta

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Query Editor Query History

```
15 -- Select all coffee types that are not Robusta or Arabica
16 select * from suppliers
17 where coffee_type NOT IN ('Arabica', 'Robusta')
18 -- Select all employees with missing email address
19 select first_name, last_name, email from employees
20 where email IS NULL
21 -- Select all employees whose email are not missing
22 select first_name, last_name, email from employees
23 where email IS NOT NULL
24 -- Select all employees who make between 35K and 50K
25 select first_name, last_name, salary from employees
26 where salary BETWEEN 35000 and 50000
27 -- or
28 select first_name, last_name, salary from employees
29 where salary >= 35000 and salary <= 50000
```

Data Output Explain Messages Notifications

	first_name character varying (50)	last_name character varying (50)	salary integer
1	Eleen	Tarpey	48048
2	Jeremy	Whitlam	41159

```

1  -- ORDER BY, LIMIT, DISTINCT, Renaming columns (AS)
2  -- Top 10 highest paid employees
3  select * from employees
4  ORDER BY salary DESC
5  LIMIT 10
6  -- Return all unique coffeeshop ids
7  select distinct(coffeeshop_id) from employees
8  -- Renaming columns
9  select email, email AS email_address, hire_date, hire_date AS date_joined, salary, salary AS pay
10 from employees

```

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11 -- EXTRACT DOW, DOY, MONTH, DAY, YEAR, QUARTER, WEEK FROM columns
12 select hire_date,
13 EXTRACT (DOW FROM hire_date) AS day_of_the_week,
14 EXTRACT (DOY FROM hire_date) AS day_of_the_year,
15 EXTRACT (MONTH FROM hire_date) AS month,
16 EXTRACT (DAY FROM hire_date) AS day,
17 EXTRACT (YEAR FROM hire_date) AS year,
18 EXTRACT (QUARTER FROM hire_date) AS quarter,
19 EXTRACT (WEEK FROM hire_date) AS week
20 from employees

```

Data Output Explain Messages Notifications

	hire_date date	day_of_the_week double precision	day_of_the_year double precision	month double precision	day double precision	year double precision	quarter double precision	week double precision
1	2015-08-29	6	241	8	29	2015	3	35
2	2014-04-23	3	113	4	23	2014	2	17

```

21 -- UPPER, LOWER, LENGTH
22 -- Uppercase and lowercase first and last names
23 select first_name, UPPER(first_name) AS first_name_upper,
24        last_name, UPPER(last_name) AS last_name_upper,
25        first_name, LOWER(first_name) AS first_name_lower,
26        last_name, LOWER(last_name) AS last_name_lower
27 from employees
28 -- Return the email and the length of emails
29 select email, LENGTH(email) AS email_length from employees

```

Data Output Explain Messages Notifications

	email character varying (50)	email_length integer
1	cmosconi0@census.gov	20
2	kcorr1@aithub.io	16

```

31 -- Concatenation, Case When, Wildcards
32 -- Concatenate first and last names to create full names
33 select concat_ws(' ', first_name, last_name) AS full_name from employees
34 -- OR
35 select first_name || ' ' || last_name from employees
36 -- Concatenate columns to create a sentence
37 select concat_ws(' ', first_name, last_name, 'makes', salary) from employees
38 -- If the employees make less than 50K, then true, otherwise false
39 select concat_ws(' ', first_name, last_name), salary,
40 CASE
41 WHEN salary < 50000 THEN 'true' ELSE 'false'
42 END AS less_than_50K
43 from employees
44
45

```

Data Output Explain Messages Notifications

	concat_ws text	salary integer	less_than_50k text
1	Carson Mosconi	32973	true
2	Khalil Corr	52802	false

```

55 -- SUBSTRING, POSITION, COALESCE
56 -- Substring. Get the email from the 5th character of the email
57 select email, SUBSTRING(email FROM 5) from employees
58

```

Data Output Explain Messages Notifications

	email character varying (50)	substring text
1	cmosconi0@census.gov	coni0@censu...
2	kcorr1@aithub.io	r1@aithub.io

```

50 -- Case When with Wildcards. If the email has '.com', return true, otherwise false
51 select email,
52 CASE WHEN email LIKE '%.com%' THEN 'true' ELSE 'False'
53 END AS email_com
54 from employees
55

```

Data Output Explain Messages Notifications

	email character varying (50)	email_com text
5	hgrocock4@nasa.gov	False
6	fballs5@nvdailynews.com	true

```

58 -- Position. Find the position of '@' in the email
59 select email, POSITION('@' IN email) from employees

```

Data Output Explain Messages Notifications

	email character varying (50)	position integer
1	cmosconi0@census.gov	10
2	kcorr1@aithub.io	7