PostgreSQL CTE

Query Editor Query History Explain Messages Notifications

```
1  --We will use the film and rental tables from the sample database for the demonstration.
2  WITH cte_film AS (
3      SELECT
4          film_id,
5          title,
6          (CASE
7              WHEN length < 30 THEN 'Short'
8              WHEN length < 90 THEN 'Medium'
9              ELSE 'Long'
10         END) length
11     FROM
12         film
13 )
```

Data Output

	film_id [PK] integer	title character varying (255)	length text
1	4	Affair Prejudice	Long
2	5	African Egg	Long
3	6	Agent Truman	Long
4	9	Alabama Devil	Long
5	11	Alamo Videotape	Long
6	12	Alaska Phantom	Long
7	13	Ali Forever	Long
8	14	Alice Fantasia	Long
9	16	Alley Evolution	Long
10	19	Amadeus Holy	Long
11	21	American Circus	Long
12	23	Anaconda Confessions	Long

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```
1  --we will use the rental and staff tables:
2  WITH cte_rental AS (
3      SELECT staff_id,
4          COUNT(rental_id) rental_count
5      FROM    rental
6      GROUP   BY staff_id
7  )
8  SELECT s.staff_id,
9      first_name,
10     last_name,
11     rental_count
12 FROM staff s
13     INNER JOIN cte_rental USING (staff_id);
```

Data Output

	staff_id [PK] integer	first_name character varying (45)	last_name character varying (45)	rental_count bigint
1	1	Mike	Hillyer	8040
2	2	Jon	Stephens	8004

```
1  --The following statement illustrates how to use the CTE with the RANK() window function:
2
3  WITH cte_film AS  (
4      SELECT film_id,
5          title,
6          rating,
7          length,
8          RANK() OVER (
9              PARTITION BY rating
10             ORDER BY length DESC)
11         length_rank
12     FROM
13         film
```

Data Output

	film_id [PK] integer	title character varying (255)	rating mpaa_rating	length smallint	length_rank bigint
1	182	Control Anthem	G	185	1
2	212	Darn Forrester	G	185	1
3	609	Muscle Bright	G	185	1
4	991	Worst Banger	PG	185	1
5	141	Chicago North	PG-13	185	1
6	349	Gangs Pride	PG-13	185	1
7	690	Pond Seattle	PG-13	185	1
8	817	Soldiers Evolution	R	185	1
9	426	Home Pity	R	185	1
10	872	Sweet Brotherhood	R	185	1
11	831	Sorority Queen	NC-17	184	1