**DESCRIPTION**

Given the the schema presented below find two actors who cast together the most and list titles of only those movies they were casting together. Order the result set alphabetically by the movie title.

Table *film\_actor*

Column | Type | Modifiers

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actor\_id | smallint | not null

film\_id | smallint | not null

...

Table *actor*

Column | Type | Modifiers

------------+-----------------------------+----------

actor\_id | integer | not null

first\_name | character varying(45) | not null

last\_name | character varying(45) | not null

...

Table *film*

Column | Type | Modifiers

------------+-----------------------------+----------

film\_id | integer | not null

title | character varying(255) | not null

...

The desired output:

first\_actor | second\_actor | title

------------+--------------+--------------------

John Doe | Jane Doe | The Best Movie Ever

...

first\_actor - Full name (First name + Last name separated by a space)

second\_actor - Full name (First name + Last name separated by a space)

title - Movie title

Note: actor\_id of the first\_actor should be lower then actor\_id of the second\_actor

**SOLUTION**:

-- CTE for pair with most films together

WITH pair\_most\_films AS

(SELECT first.actor\_id, second.actor\_id AS other\_actor, COUNT(\*)

FROM

(

SELECT \*

FROM film\_actor) first

INNER JOIN

(

SELECT \*

FROM film\_actor) second

ON first.film\_id = second.film\_id

WHERE first.actor\_id < second.actor\_id

GROUP BY first.actor\_id, second.actor\_id

ORDER BY COUNT(\*) DESC

LIMIT 1)

-- Get film\_id of pair actors + names

SELECT CONCAT(aa.first\_name, ' ', aa.last\_name) AS first\_actor,

CONCAT(aa2.first\_name, ' ', aa2.last\_name) AS second\_actor,

title

FROM

(SELECT pmf.actor\_id, other\_actor, film\_id

FROM pair\_most\_films AS pmf, film\_actor AS fa

WHERE pmf.actor\_id = fa.actor\_id) test

INNER JOIN

(SELECT pmf.actor\_id, other\_actor, film\_id

FROM pair\_most\_films AS pmf, film\_actor AS fa

WHERE pmf.other\_actor = fa.actor\_id) test2

ON test.film\_id = test2.film\_id

INNER JOIN film

ON test2.film\_id = film.film\_id

INNER JOIN actor aa

ON test.actor\_id = aa.actor\_id

INNER JOIN actor aa2

ON test2.other\_actor = aa2.actor\_id