Assume you are given the table below that shows job postings for all companies on the LinkedIn platform. Write a query to get the number of companies that have posted duplicate job listings.

## Clarification:

Duplicate job listings refer to two jobs at the same company with the same title and description.

job\_listings Table:

Column Name	Туре
job_id	integer
company_id	integer
title	string
description	string

```
SOLUTION 1 (my, using window functions)
SELECT COUNT (DISTINCT (company_id))
 FROM (
        SELECT *,
                COUNT(rwn) OVER(PARTITION BY company id, title, description) AS cnt
         FROM (
                SELECT *,
                        ROW_NUMBER() OVER(PARTITION BY company_id, title, description) AS rwn
                 FROM job_listings) AS t1) AS t2
 WHERE cnt > 1
SOLUTION 2 (using subquery)
SELECT COUNT (DISTINCT company_id) AS co_w_duplicate_jobs
FROM (
       SELECT company_id,
                title,
                description,
                COUNT(job_id) AS job_count
         FROM job listings
    GROUP BY company_id,
                title,
                description
        ) AS jobs grouped
WHERE job_count > 1
SOLUTION 3 (using CTE)
WITH jobs_grouped AS (
                       SELECT company_id, title, description, COUNT(job_id) AS job_count
                       FROM job_listings
                   GROUP BY company_id, title, description)
SELECT COUNT(DISTINCT company_id) AS co_w_duplicate_jobs
 FROM jobs_grouped
WHERE job_count > 1
```