

DDL Commands

```
CREATE TABLE app_company (  
  id BIGINT NOT NULL AUTO_INCREMENT,  
  name VARCHAR(1000) NOT NULL,  
  size VARCHAR(100) NOT NULL,  
  profile LONGTEXT NOT NULL,  
  contact_person VARCHAR(255) NOT NULL,  
  contact_info VARCHAR(255) NOT NULL,  
  PRIMARY KEY (id)  
);
```

```
CREATE TABLE app_location (  
  id BIGINT NOT NULL AUTO_INCREMENT,  
  city VARCHAR(100) NOT NULL,  
  country VARCHAR(100) NOT NULL,  
  latitude DOUBLE NOT NULL,  
  longitude DOUBLE NOT NULL,  
  PRIMARY KEY (id)  
);
```

```
CREATE TABLE app_skill (  
  id BIGINT NOT NULL AUTO_INCREMENT,  
  name VARCHAR(500) NOT NULL,  
  PRIMARY KEY (id)  
);
```

```
CREATE TABLE app_jobportal (  
  id BIGINT NOT NULL AUTO_INCREMENT,  
  name VARCHAR(500) NOT NULL,  
  PRIMARY KEY (id)  
);
```

```
CREATE TABLE app_jobposting (  
  id BIGINT NOT NULL AUTO_INCREMENT,  
  job_id BIGINT NOT NULL UNIQUE,  
  title VARCHAR(1000) NOT NULL,  
  role VARCHAR(255) NOT NULL,  
  description LONGTEXT NOT NULL,  
  responsibilities LONGTEXT NOT NULL,  
  qualifications VARCHAR(255) NOT NULL,  
  experience VARCHAR(255) NOT NULL,  
  work_type VARCHAR(50) NOT NULL,
```

```
salary_range VARCHAR(100) NOT NULL,  
posting_date DATE NOT NULL,  
preference VARCHAR(50) NOT NULL,  
benefits LONGTEXT NOT NULL,  
company_id BIGINT NOT NULL,  
job_portal_id BIGINT,  
location_id BIGINT NOT NULL,  
PRIMARY KEY (id),  
FOREIGN KEY (company_id) REFERENCES app_company(id),  
FOREIGN KEY (job_portal_id) REFERENCES app_jobportal(id),  
FOREIGN KEY (location_id) REFERENCES app_location(id)  
);
```

```
CREATE TABLE app_jobposting_skills (  
id BIGINT NOT NULL AUTO_INCREMENT,  
jobposting_id BIGINT NOT NULL,  
skill_id BIGINT NOT NULL,  
PRIMARY KEY (id),  
UNIQUE (jobposting_id, skill_id),  
FOREIGN KEY (jobposting_id) REFERENCES app_jobposting (id),  
FOREIGN KEY (skill_id) REFERENCES app_skill (id)  
);
```

Table Creation

All instances > instance-20250326-233904

Prima...

Explorer

Databases 2

Career_compass_clean_test (Default)

Tables 6

app_company

app_jobportal

app_jobposting

app_jobposting_skills

app_location

app_skill

Views 0

Events 0

Functions 0

Procedures 0

career_compass

information_schema

mysql

performance_schema

sys

Editor 4

Editor 1

GEMINI

RUN

FORMAT

CLEAR

Valid

1

SHOW TABLES;

RESULTS

Tables_in_Career_compass_clean_test

app_company

app_jobportal






app_jobposting


app_jobposting_skills

app_location

app_skill


Count numbers

 Editor 4  Editor 1   GEMINI 

 RUN



FORMAT

CLEAR






 Valid


```
1 SELECT COUNT(*)
2 FROM app_skill;
```

RESULTS


COUNT(*)
1440

 Editor 4  Editor 1   GEMINI 

 RUN



FORMAT

CLEAR

 Valid

```
1 SELECT COUNT(*)
2 FROM app_jobposting_skills;
```

RESULTS

COUNT(*)
12927

The screenshot shows a SQL editor interface. At the top, there are three buttons: "RUN" (with a play icon), "FORMAT", and "CLEAR". To the right of these buttons is a green checkmark icon followed by the text "Valid". Below the buttons, the SQL query is entered in a text area:

```
1 SELECT COUNT(*)
2 FROM app_jobposting;
```

Below the query area, there is a horizontal line. Underneath this line, the word "RESULTS" is displayed in blue. To the right of "RESULTS" are two icons: a square with an 'x' and a downward-pointing arrow. Below the "RESULTS" section, a table is visible with one row containing the text "COUNT(*)".

```

13 SELECT company_name
14 FROM (
15     SELECT
16         c.name AS company_name,
17         COUNT(jp.id) AS total_jobs
18     FROM app_company AS c
19     JOIN app_jobposting AS jp ON jp.company_id = c.id
20     GROUP BY c.name
21     HAVING COUNT(jp.id) > (
22         SELECT AVG(job_count)
23         FROM (
24             SELECT COUNT(jp.id) AS job_count
25             FROM app_company AS c2
26             JOIN app_jobposting AS jp ON jp.company_id = c2.id
27             GROUP BY c2.name
28         ) AS avg_jobs
29     ) AS above_avg_companies
30 )
31 LIMIT 15;
32

```

job_title	company_name	city	country	work_type
Registered Nurse	Fidelity Investmen...	Sanaa	Yemen	Temporary
Occupational Th...	DaVita	Sanaa	Yemen	Temporary

▶

RUN

FORMAT

CLEAR

✓

Valid

```

1 SELECT
2   c.name AS company_name,
3   COUNT(jp.id) AS total_jobs
4 FROM app_company AS c
5 JOIN app_jobposting AS jp ON jp.company_id = c.id
6 GROUP BY c.name
7 HAVING COUNT(jp.id) > (
8   SELECT AVG(job_count)
9   FROM (
10    SELECT COUNT(jp.id) AS job_count
11    FROM app_company AS c2
12    JOIN app_jobposting AS jp ON jp.company_id = c2.id
13    GROUP BY c2.name
14   ) AS avg_jobs_per_company
15 )
16 ORDER BY total_jobs DESC
17 LIMIT 15;
18

```

RESULTS

⌕

▼

company_name	total_jobs
Apollo Global Management	8
Wells Fargo	8
American Airlines Group	8
McDonald's	7
Otis Worldwide	7
Deutsche Post DHL Group	7
Western & Southern Financial Group	7
Campbell Soup	7
CarMax	7

Rows per page:

20 ▼

1 – 15 of 15

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This advanced query finds company names that have more total job postings than the average amount of job postings

```

1 SELECT c.id AS company_id,
2        c.name AS company_name,
3        l.city AS headquarters_city,
4        l.country AS headquarters_country
5 FROM app_company AS c
6 LEFT JOIN app_jobposting AS jp ON c.id = jp.company_id
7 LEFT JOIN app_location AS l ON jp.location_id = l.id
8 WHERE NOT EXISTS (
9     SELECT 1
10    FROM app_jobposting AS jp2
11   WHERE jp2.company_id = c.id
12         AND jp2.posting_date >= (CURRENT_DATE - INTERVAL 30 DAY)
13 )
14 GROUP BY c.id, c.name, l.city, l.country
15 ORDER BY c.name
16 LIMIT 15;
17

```

RESULTS

company_id	company_name	headquarters_city	headquarters_country
248	3i Group	Damascus	Syrian Arab Republic
248	3i Group	Kigali	Rwanda
19	3M	Skopje	Macedonia, FYR
19	3M	Tbilisi	Georgia
19	3M	Tehran	Iran, Islamic Rep.
19	3M	Funafuti	Tuvalu
19	3M	SÃ£o TomÃ©	Sao Tome and Principe
19	3M	Seoul	North Korea
310	A-Mark Precious Metals	Moroni	Comoros

Rows per page: 20 1 – 15 of 15 |< < > >|

This advanced query searches for job postings that have been posted in the last 3 days.

▶ RUN
FORMAT
CLEAR

✔ Valid

```

1 SELECT
2     loc.city,
3     COUNT(DISTINCT c.name) AS unique_companies
4 FROM app_jobposting jp
5 JOIN app_location loc ON jp.location_id = loc.id
6 JOIN app_company c ON jp.company_id = c.id
7 GROUP BY loc.city
8 ORDER BY unique_companies DESC
9 LIMIT 15;
10

```

RESULTS

⌂
▼

city	unique_companies
Apia	20
Castries	19
Funafuti	19
Yaounde	19
Canberra	17
Kigali	16
Islamabad	16
Damascus	16
Tripoli	16

Rows per page: 20 ▼
1 – 15 of 15
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This advanced query finds the name of cities with the highest number of unique company postings.