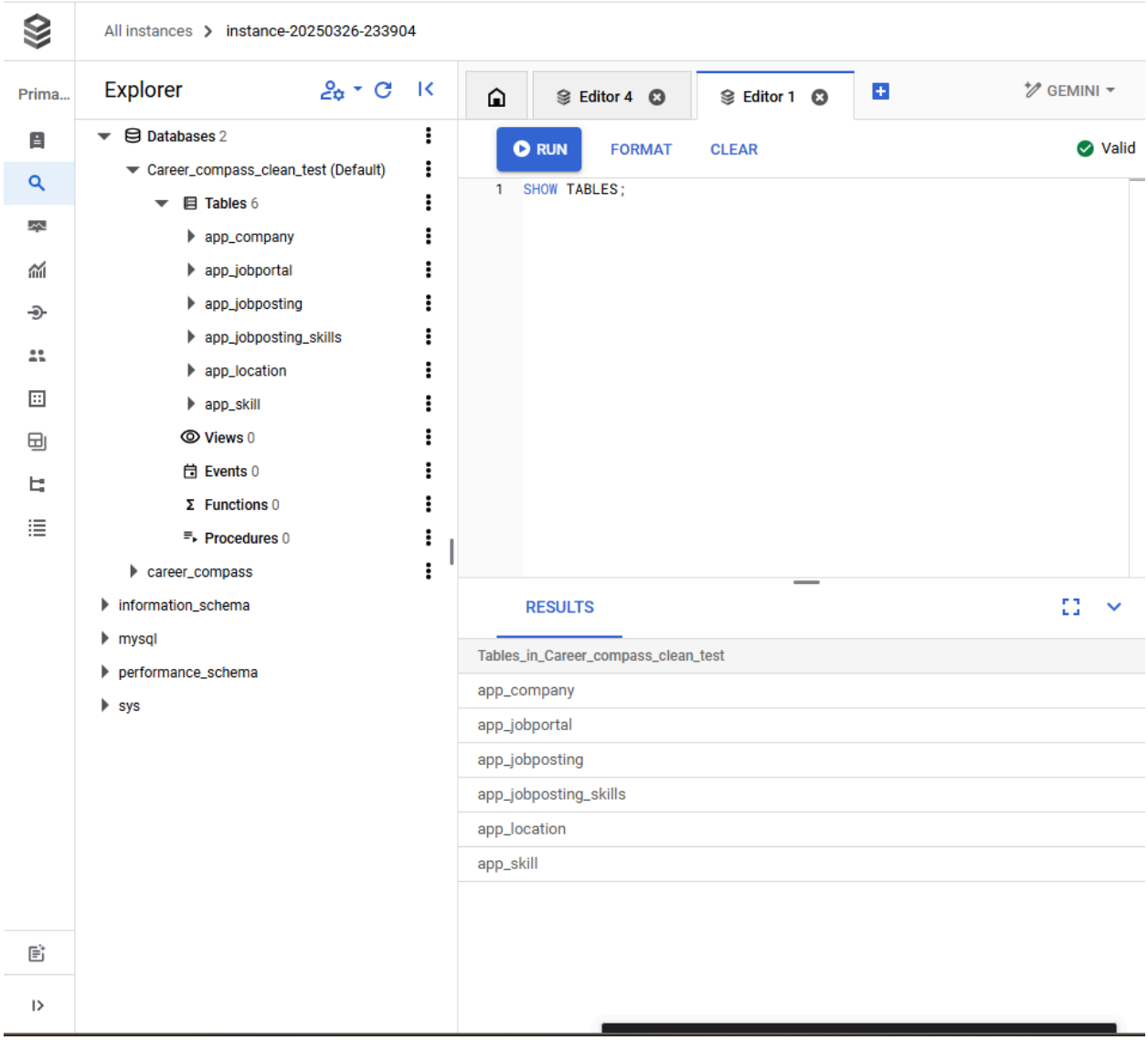
DDL Commands

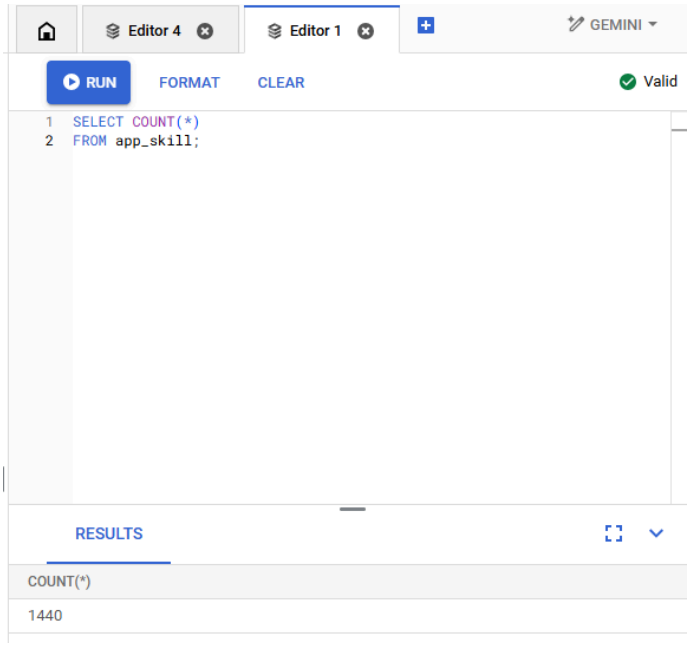
```
CREATE TABLE app_company (
    id BIGINT NOT NULL AUTO_INCREMENT,
    name VARCHAR(1000) NOT NULL,
    size VARCHAR(100) NOT NULL,
    profile LONGTEXT NOT NULL,
    contact_person VARCHAR(255) NOT NULL,
    contact_info VARCHAR(255) NOT NULL,
    PRIMARY KEY (id)
);

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,
```

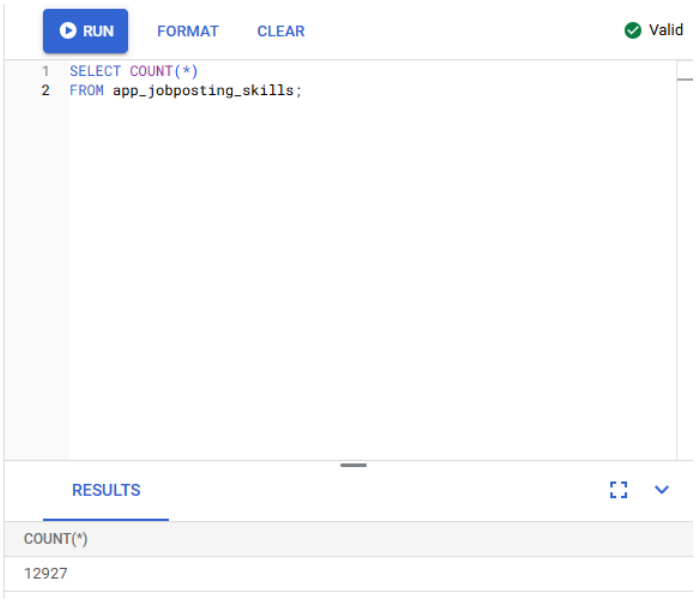
```
    salary_range VARCHAR(100) NOT NULL,
    posting_date DATE NOT NULL,
    preference VARCHAR(50) NOT NULL,
    benefits LONGTEXT NOT NULL,
    company_id BIGINT NOT NULL,
    job_portal_id BIGINT,
    location_id BIGINT NOT NULL,
    PRIMARY KEY (id),
    FOREIGN KEY (company_id) REFERENCES app_company(id),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

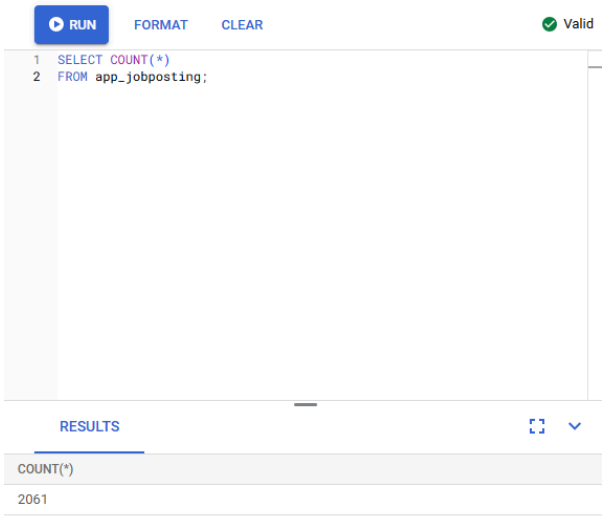
Table Creation



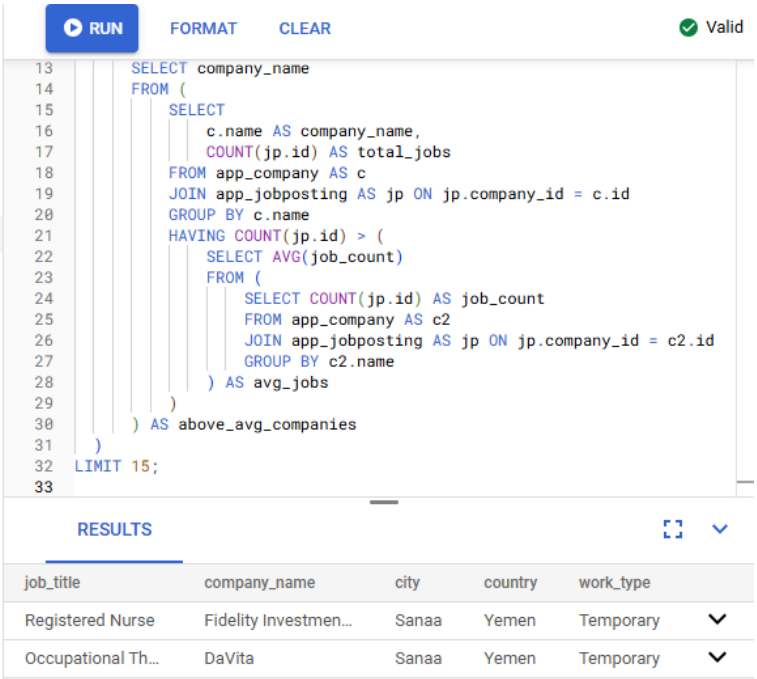
Count numbers







Advanced query output



Our advanced query pulling from temporary work types and in Yemen only yielded two results

RUN FORMAT CLEAR Valid

```sql
SELECT
    c.name AS company_name,
    COUNT(jp.id) AS total_jobs
FROM app_company AS c
JOIN app_jobposting AS jp ON jp.company_id = c.id
GROUP BY c.name
HAVING COUNT(jp.id) > (
    SELECT AVG(job_count)
    FROM (
        SELECT COUNT(jp.id) AS job_count
        FROM app_company AS c2
        JOIN app_jobposting AS jp ON jp.company_id = c2.id
        GROUP BY c2.name
    ) AS avg_jobs_per_company
)
ORDER BY total_jobs DESC
LIMIT 15;
```

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

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

```sql
SELECT c.id AS company_id,
       c.name AS company_name,
       l.city AS headquarters_city,
       l.country AS headquarters_country
FROM app_company AS c
LEFT JOIN app_jobposting AS jp ON c.id = jp.company_id
LEFT JOIN app_location AS l ON jp.location_id = l.id
WHERE NOT EXISTS (
    SELECT 1
    FROM app_jobposting AS jp2
    WHERE jp2.company_id = c.id
      AND jp2.posting_date >= (CURRENT_DATE - INTERVAL 30 DAY)
)
GROUP BY c.id, c.name, l.city, l.country
ORDER BY c.name
LIMIT 15;

```

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

```sql
SELECT
    loc.city,
    COUNT(DISTINCT c.name) AS unique_companies
FROM app_jobposting jp
JOIN app_location loc ON jp.location_id = loc.id
JOIN app_company c ON jp.company_id = c.id
GROUP BY loc.city
ORDER BY unique_companies DESC
LIMIT 15;
```

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

This advanced query finds the name of cities with the highest number of unique company postings.