**Metadata de tablas:**

Esta consulta devuelve la metadata de las tablas seleccionada

SELECT   table\_name,  ddl

FROM `concept-test-463118.concept\_test\_ingest.INFORMATION\_SCHEMA.TABLES`

WHERE table\_name IN ('jobs', 'departments', 'hired\_employees');

CREATE TABLE `concept-test-463118.concept\_test\_ingest.hired\_employees` (

id INT64,

name STRING,

datetime STRING,

department\_id INT64,

job\_id INT64

);

CREATE TABLE `concept-test-463118.concept\_test\_ingest.jobs` (

id INT64,

job STRING

);

CREATE TABLE `concept-test-463118.concept\_test\_ingest.departments` (

id INT64,

department STRING

);

Ejercicio 1:

with bd\_emp as (

  SELECT     job.job,    dep.department,    job.id,    datetime,

    extract(month from PARSE\_DATETIME('%Y-%m-%dT%H:%M:%SZ', emp.datetime)) as month

  FROM `concept-test-463118.concept\_test\_ingest.hired\_employees` emp

  left join `concept-test-463118.concept\_test\_ingest.jobs` job       on emp.job\_id = job.id

  left join `concept-test-463118.concept\_test\_ingest.departments` dep on emp.department\_id = dep.id

  where extract(YEAR from PARSE\_DATETIME('%Y-%m-%dT%H:%M:%SZ', emp.datetime)) = 2021

),

db\_clean as (

  select     department,    job,

    case

      when bd\_emp.month >= 1 and bd\_emp.month <= 3 then 't1'

      when bd\_emp.month >= 4 and bd\_emp.month <= 6 then 't2'

      else 't3'

    end as trimes

  from bd\_emp

)

select   department,  job,

  sum(case when trimes = 't1' then 1 else 0 end) as t1,

  sum(case when trimes = 't2' then 1 else 0 end) as t2,

  sum(case when trimes = 't3' then 1 else 0 end) as t3

from db\_clean

where department is not null

group by department, job

order by department, job

resultado de ejecución n1

Ejercicio 2

SELECT

    dep.id AS department\_id,    dep.department AS department\_name,

    COUNT(emp.id) AS hired\_employees\_count

  FROM

    `concept-test-463118.concept\_test\_ingest.hired\_employees`  emp

    JOIN `concept-test-463118.concept\_test\_ingest.departments`  dep ON emp.department\_id = dep.id

  WHERE

    EXTRACT(YEAR FROM PARSE\_TIMESTAMP('%Y-%m-%dT%H:%M:%SZ', emp.datetime)    ) = 2021

  GROUP BY 1,2

  HAVING COUNT(dep.id) > (SELECT AVG(employee\_count)

                            FROM

        (

          SELECT

            department\_id,

            COUNT(id) AS employee\_count

          FROM

            `concept-test-463118.concept\_test\_ingest.hired\_employees`

          WHERE EXTRACT(YEAR FROM PARSE\_TIMESTAMP('%Y-%m-%dT%H:%M:%SZ', datetime)) = 2021

          GROUP BY

            1

          )    )ORDER BY  hired\_employees\_count DESC;

