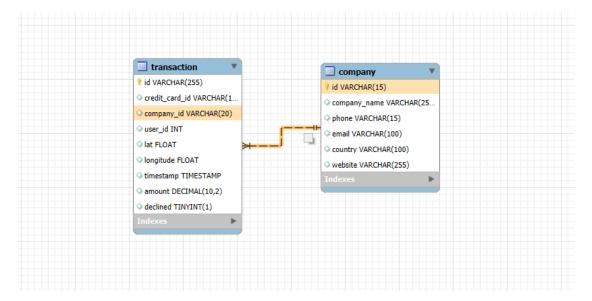
# Sprint 2: BBDD relacionals i introducció a SQL

# Nivell 1

#### Exercici 1



La base de dades està formada per dues taules que es conecten entre elles en una relació de un a molts, on la primary key de la taula de company és l'id que fa alhora de foreign key a la taula de transaction nombrada com company\_id. Això vol de que cada id únic de la taula company pot aparèixer més d'un cop a la taula transaction. També dóna la sensació de que la taula de transaction podría ser de fets i la de company una dimensió.

#### Exercici 2

SELECT distinct country

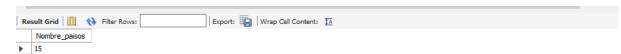
FROM company

LEFT JOIN transaction

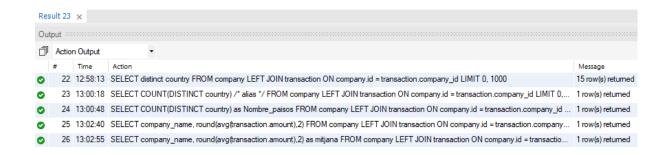
ON company.id = transaction.company\_id;



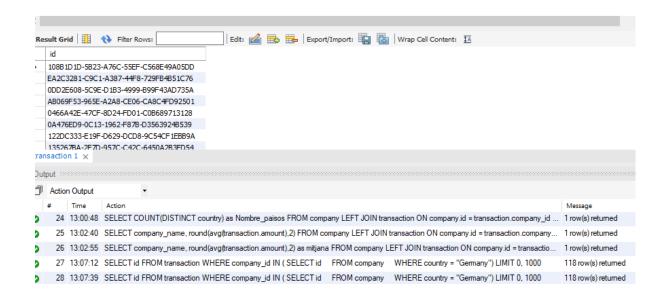




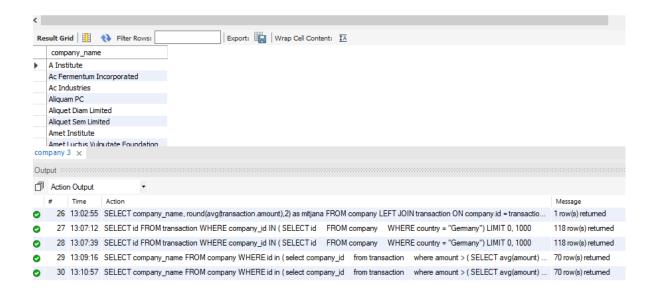




```
1 • SELECT id
2 FROM transaction
3  WHERE company_id IN (
4 SELECT id
5 FROM company
6 WHERE country = "Germany");
```



```
1 • SELECT company_name
      FROM company
2
3
   4
         select company_id
5
         from transaction
6
        where amount > (
            SELECT avg(amount)
8
             FROM transaction)
9
        )
      ORDER BY 1;
10
```

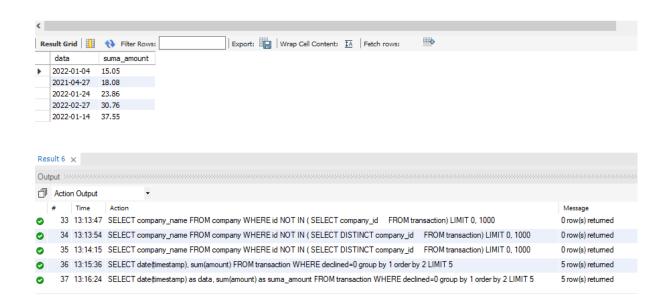




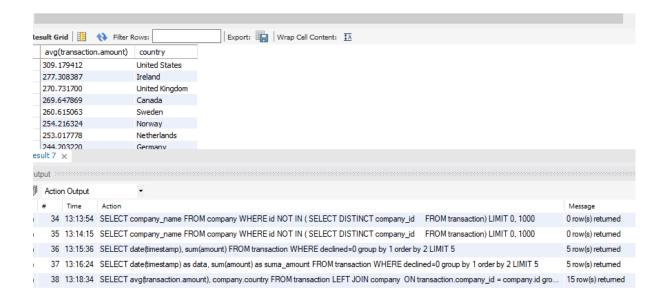


# Nivell 2

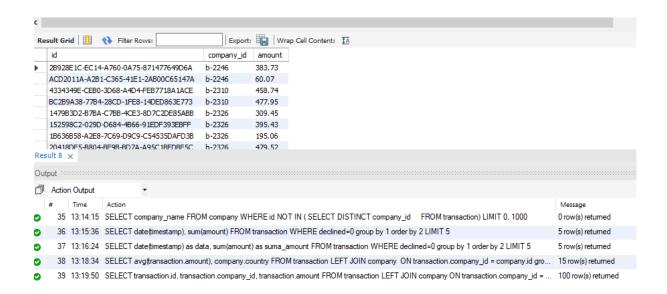
```
SELECT date(timestamp) as data, sum(amount) as suma_amount
FROM transaction
WHERE declined=0
group by 1
order by 2
LIMIT 5;
```



```
SELECT avg(transaction.amount), company.country
FROM transaction
LEFT JOIN company
ON transaction.company_id = company.id
group by company.country
order by 1 DESC;
```



```
1 • SELECT transaction.id, transaction.company_id, transaction.amount
2  FROM transaction
3  LEFT JOIN company
4  ON transaction.company_id = company.id
5  WHERE company.country in (
6  SELECT country
7  FROM company
8  WHERE company_name = "Non Institute");
```



# Nivell 3

```
/* EXERCICI 1*/

5 SELECT company.company_name, company.phone, company.country, DATE(transaction.timestamp) as time, transaction.amount

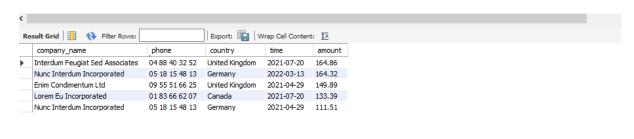
FROM company

LEFT JOIN transaction

ON company.id = transaction.company_id

WHERE transaction.amount BETWEEN 100 AND 200 AND DATE(transaction.timestamp) IN ('2021-04-29','2021-07-20','2022-03-13')

ORDER BY transaction.amount DESC;
```





```
/*EXERCICI 2*/
2
       SELECT count(transaction.id), transaction.company_id,
3
          WHEN count(transaction.id) >= 4 THEN "Té més o igual a 4 transaccions"
4
5
           ELSE "Té menys de 4 transaccions"
6
       END as 4_transaccions
       FROM company
8
       LEFT JOIN transaction
9
       ON company.id = transaction.company_id
       GROUP BY 2
10
11
```

