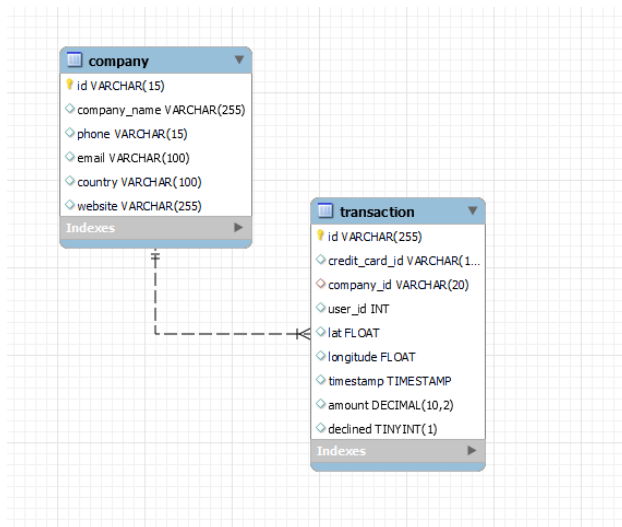


SPRINT 2

A partir de los documentos adjuntos (estructura_datos y datos_introducir), importa las dos tablas. Muestra las principales características del esquema creado y explica las diferentes tablas y variables que existen. Asegúrate de incluir un diagrama que ilustre la relación entre las distintas tablas y variables.

EJERCICIO 1



Esta tabla Company están unida por el ID es su primary keys con la de transacción con su foreign keys (Id de la compañía)

Se tienen 2 tablas Company y Transacciones

La tabla **COMPANY** almacena la información de empresas

Donde se tiene:

Id (primary Keys)

Nombre

Teléfono

Email

País

Sitio web

La tabla **TRANSACCION**

Esta tabla almacena los datos de las compras tanto rechazadas como las aceptadas

Id (primary Keys)

Tarjeta de credito

Id del usuario

ID de la compañía (foreign keys)

Latitud

Longitud

Timestap(fecha , hora)

monto

rechazada o aceptada

#NIVEL 1

```
select * from transactions.company;
```

```
select* from transactions.transaction;
```

ejercicio 2/a

```
-- Listado de los países que están realizando compras;
```

```
select distinct company.country, transaction.declined
```

```
FROM transactions.company
```

```
join transactions.transaction on company_id = transaction.company_id
```

```
where transaction.declined = 0;
```

```

1  -- Ejercicio 2/a
2  • select * from transactions.company;
3  • select* from transactions.transaction;
4  # ejercicio 2/a
5  -- Listado de los países que están realizando compras;
6  • select distinct company.country, transaction.declined
7  FROM transactions.company
8  join transactions.transaction on company_id = transaction.company_id
9  where transaction.declined = 0;
10
11 #ejercicio 2/b
12 #Desde cuántos países se realizan las compras;
13

```

country	declined
Germany	0
Australia	0
United States	0
New Zealand	0
Norway	0
United Kingdom	0
Italy	0
Belgium	0
Sweden	0

Retornaron 15 filas

#ejercicio 2/b

#Desde cuántos países se realizan las compras;

select count(distinct company.country)

FROM transactions.company

join transactions.transaction on company_id = transaction.company_id;

```

10
11 #ejercicio 2/b
12 #Desde cuántos países se realizan las compras;
13
14
15 • select count(distinct company.country)
16 FROM transactions.company
17 join transactions.transaction on company_id = transaction.company_id;
18
19 #ejercicio 2/c
20 #Identifica a la compañía con la mayor media de ventas;
21 • select company_id, avg(amount)
22 FROM transactions.transaction

```

count(distinct company.country)
15

#ejercicio 2/c

#Identifica a la compañía con la mayor media de ventas;

```
select company_id, round(avg(amount),2)
```

```
FROM transactions.transaction
```

```
group by company_id
```

```
order by avg(amount) desc;
```

```
18
19 #ejercicio 2/c
20 #Identifica a la compañía con la mayor media de ventas;
21 • select company_id, Round(avg(amount),2)
22 FROM transactions.transaction
23 group by company_id
24 order by avg(amount) desc;
25
```

company_id	Round(avg(amount),2)
b-2398	473.08
b-2310	468.35
b-2410	461.21
b-2454	443.64
b-2458	442.52
b-2522	442.28
b-2258	434.06
b-2570	425.64
b-2510	408.62
b-2406	407.79
b-2610	406.11
b-2490	405.36
b-2226	396.32
b-2526	390.33
b-2566	385.27

Result 31 ×

#ejercicio3

#Sin JOIN

#Muestra todas las transacciones realizadas por empresas de Alemania;

```
Select *
```

```
From transactions.transaction
```

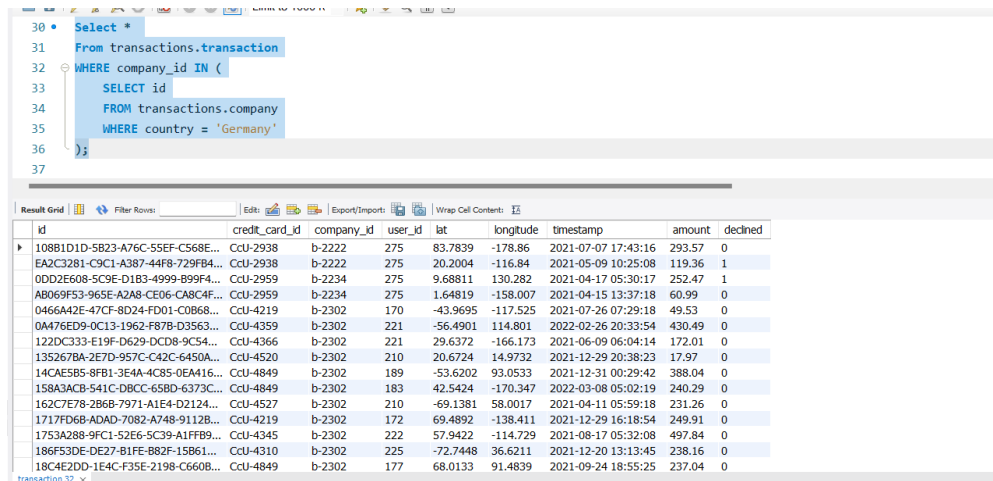
```
WHERE company_id IN (
```

```
    SELECT id
```

```
    FROM transactions.company
```

```
    WHERE country = 'Germany'
```

);



```
30 * Select *
31 From transactions.transaction
32 WHERE company_id IN (
33     SELECT id
34     FROM transactions.company
35     WHERE country = 'Germany'
36 );
37
```

id	credit_card_id	company_id	user_id	lat	longitude	timestamp	amount	declined
108B1D1D-5B23-A76C-55EF-C568E...	CcU-2938	b-2222	275	83.7839	-178.86	2021-07-07 17:43:16	293.57	0
EA2C3281-C9C1-A387-44F8-729FB4...	CcU-2938	b-2222	275	20.2004	-116.84	2021-05-09 10:25:08	119.36	1
00D2E508-5C9E-D1B3-4999-899F4...	CcU-2959	b-2234	275	9.68811	130.282	2021-04-17 05:30:17	252.47	1
A8069F53-965E-A2A8-CE06-C8C4F4...	CcU-2959	b-2234	275	1.64819	-158.007	2021-04-15 13:37:18	60.99	0
0466A42E-47CF-8D24-FD01-C0B68...	CcU-4219	b-2302	170	-43.9695	-117.525	2021-07-26 07:29:18	49.53	0
0A476ED9-0C13-1962-F87B-D3563...	CcU-4359	b-2302	221	-56.4901	114.801	2022-02-26 20:33:54	430.49	0
122DC333-E19F-D629-DCD8-9C54...	CcU-4366	b-2302	221	29.6372	-166.173	2021-06-09 06:04:14	172.01	0
135267BA-2E7D-957C-C42C-6450A...	CcU-4520	b-2302	210	20.6724	14.9732	2021-12-29 20:38:23	17.97	0
14CAE5B5-8FB1-3E4A-4C85-0EA416...	CcU-4849	b-2302	189	-53.6202	93.0533	2021-12-31 00:29:42	388.04	0
158A3ACB-541C-3BCC-65BD-6373C...	CcU-4849	b-2302	183	42.5424	-170.347	2022-03-08 05:02:19	240.29	0
162C7E78-2B6B-7971-A1E4-D2124...	CcU-4527	b-2302	210	-69.1381	58.0017	2021-04-11 05:59:18	231.26	0
1717FD6B-ADAD-7082-A748-9112B...	CcU-4219	b-2302	172	69.4892	-138.411	2021-12-29 16:18:54	249.91	0
1753A288-9FC1-52F6-5C39-A1FFB9...	CcU-4345	b-2302	222	57.9422	-114.729	2021-08-17 05:32:08	497.84	0
186F53DE-DE27-B1FE-882F-15861...	CcU-4310	b-2302	225	-72.7448	36.6211	2021-12-20 13:13:45	238.16	0
18C4E2DD-1E4C-F35E-2198-C660B...	CcU-4849	b-2302	177	68.0133	91.4839	2021-09-24 18:55:25	237.04	0

RETORNARON 118 FILAS

#ejercicio3/b

#Lista las empresas que han realizado transacciones por un amount superior a la media de todas las transacciones.

select company_name

from transactions.company

where id in (

select company_id

from transactions.transaction

where amount > (select avg(amount) as media

from transactions.transaction));

```

41 • select company_name
42 from transactions.company
43 where id in (
44     select company_id
45     from transactions.transaction
46     where amount > (select avg(amount) as media
47                     from transactions.transaction));
48

```

company_name
Ac Fermentum Incorporated
Magna A Neque Industries
Fusce Corp.
Ante Jaculis Nec Foundation
Donec Ltd
Sed Nunc Ltd
Nascetur Ridiculus Mus Inc.
Vestibulum Lorem PC
Gravida Sagittis LLP
Mus Aenean Eget Foundation
Dis Parturient Institute
Sed LLC
Arcu LLP
Fringilla LLC
Etiam Lorem Associates

RETORNARON 70 FILAS

#Ejercicio 3/c

#Eliminarán del sistema las empresas que carecen de transacciones registradas, entrega el listado de estas empresas.

select company_name

from transactions.company

where id not in (select company_id

from transactions.transaction);

```

53 • select company_name
54 from transactions.company
55 where id not in ( select company_id
56                 from transactions.transaction);
57
58 #NIVEL II
59 # Identifica los cinco días que se generó la mayor cantidad de ingresos en la empresa por
60 • SELECT amount as monto, company_id, date(timestamp)

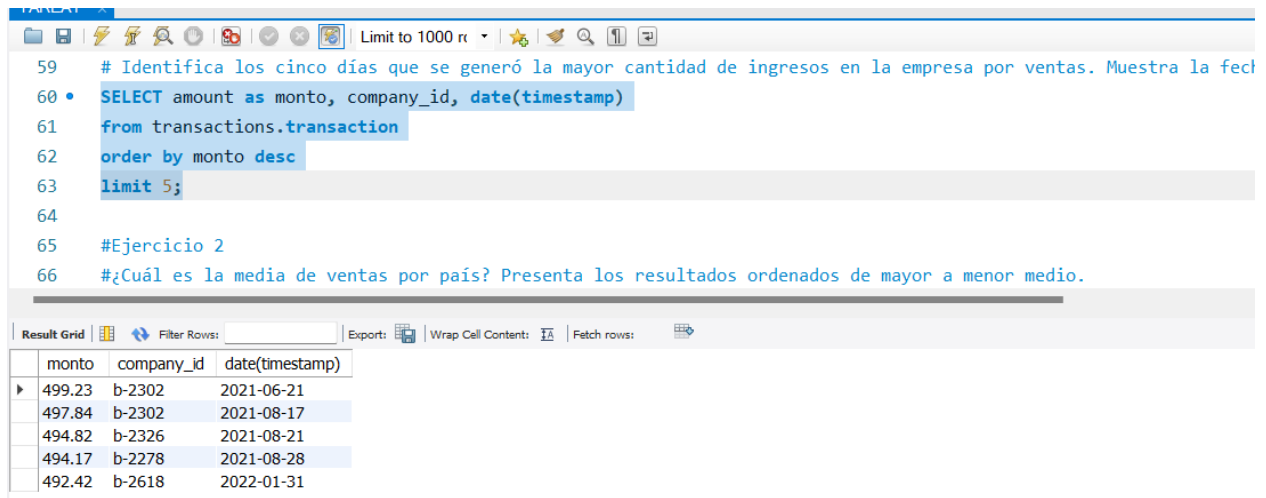
```

company_name

#NIVEL II

Identifica los cinco días que se generó la mayor cantidad de ingresos en la empresa por ventas. Muestra la fecha de cada transacción junto con el total de las ventas.

```
SELECT amount as monto, company_id, date(timestamp)
from transactions.transaction
order by monto desc
limit 5;
```



The screenshot shows a SQL IDE interface. The top part displays a query with line numbers 59 to 66. The query is: `SELECT amount as monto, company_id, date(timestamp) from transactions.transaction order by monto desc limit 5;`. Below the query, there is a 'Result Grid' section showing the results of the query. The results are displayed in a table with three columns: 'monto', 'company_id', and 'date(timestamp)'. The table contains five rows of data.

monto	company_id	date(timestamp)
499.23	b-2302	2021-06-21
497.84	b-2302	2021-08-17
494.82	b-2326	2021-08-21
494.17	b-2278	2021-08-28
492.42	b-2618	2022-01-31

#Ejercicio 2

#¿Cuál es la media de ventas por país? Presenta los resultados ordenados de mayor a menor medio.

```
select round(avg(amount),2) as ventas, company.country
from transactions.transaction
join transactions.company ON company.id= transaction.company_id
group by company.country
order by ventas desc;
```

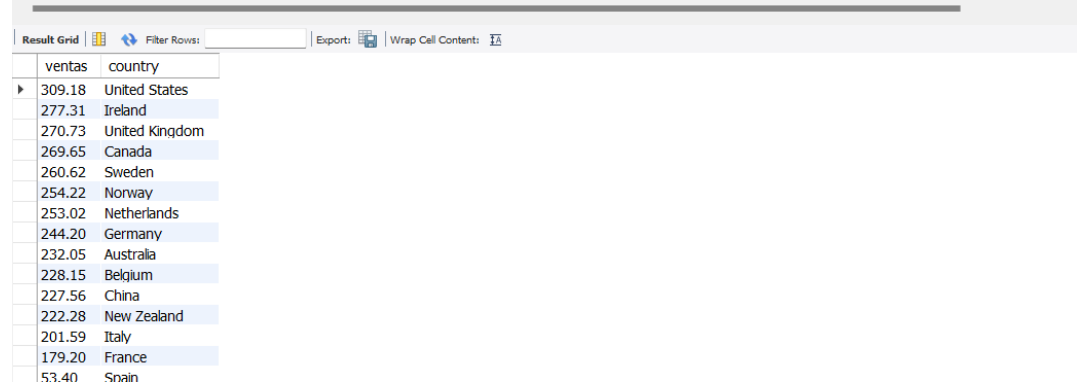
#verificando con varios paises

```
select avg(amount) as ventas, company.country
from transactions.transaction
```

join transactions.company on company.id= transaction.company_id

where company.country = 'united states';

```
65 #Ejercicio 2
66 #¿Cuál es la media de ventas por país? Presenta los resultados ordenados de mayor a menor medio.
67 • select round(avg(amount),2) as ventas, company.country
68 from transactions.transaction
69 join transactions.company ON company.id= transaction.company_id
70 group by company.country
71 order by ventas desc;
72
```



The screenshot shows a database query result grid. The grid has two columns: 'ventas' and 'country'. The data is sorted in descending order of average sales. The countries listed are United States, Ireland, United Kingdom, Canada, Sweden, Norway, Netherlands, Germany, Australia, Belgium, China, New Zealand, Italy, France, and Spain.

ventas	country
309.18	United States
277.31	Ireland
270.73	United Kingdom
269.65	Canada
260.62	Sweden
254.22	Norway
253.02	Netherlands
244.20	Germany
232.05	Australia
228.15	Belgium
227.56	China
222.28	New Zealand
201.59	Italy
179.20	France
53.40	Spain

RETORNARON 15 FILAS

#Ejercicio 3

#En tu empresa, se plantea un nuevo proyecto para lanzar algunas campañas publicitarias para hacer competencia a la compañía “Non Institute”.

Para ello, te piden la lista de todas las transacciones realizadas por empresas que están ubicadas en el mismo país que esta compañía.

#Muestra el listado aplicando JOIN y subconsultas.

select amount as ventas, company.country, company.id, company_name

from transactions.transaction

join transactions.company ON company.id= transaction.company_id

where company.country = (select company.country

from transactions.company

where company_name = 'enim condimentum

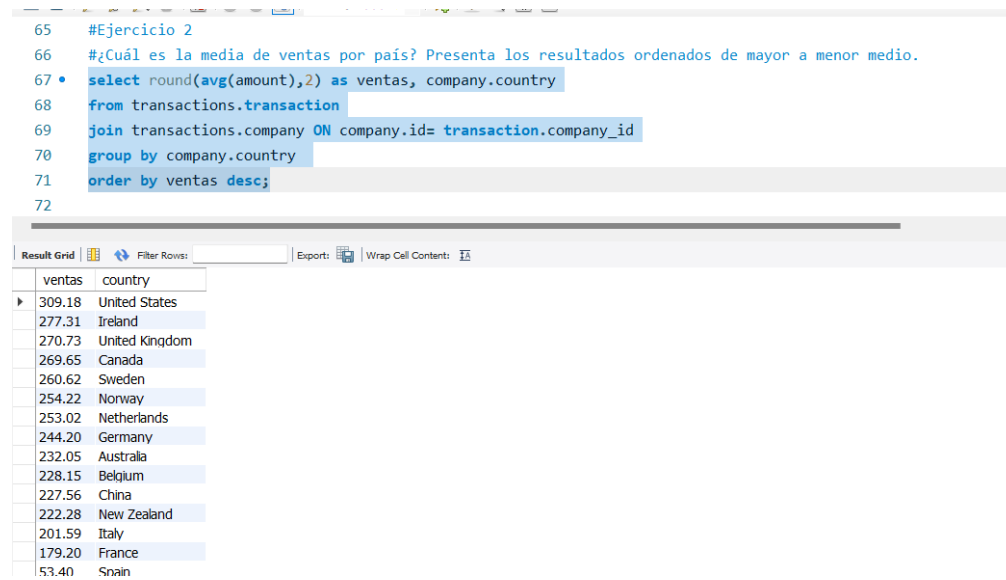
ltd');

#validando

select *

from transactions.company

where company_name = 'enim condimentum ltd';



The screenshot shows a SQL IDE with a query editor and a results grid. The query is as follows:

```
65 #Ejercicio 2
66 #¿Cuál es la media de ventas por país? Presenta los resultados ordenados de mayor a menor medio.
67 • select round(avg(amount),2) as ventas, company.country
68 from transactions.transaction
69 join transactions.company ON company.id= transaction.company_id
70 group by company.country
71 order by ventas desc;
72
```

The results grid displays the following data:

ventas	country
309.18	United States
277.31	Ireland
270.73	United Kingdom
269.65	Canada
260.62	Sweden
254.22	Norway
253.02	Netherlands
244.20	Germany
232.05	Australia
228.15	Belgium
227.56	China
222.28	New Zealand
201.59	Italy
179.20	France
53.40	Spain

RETORNARON 100 FILAS

Nivel 3

Ejercicio 1

Presenta el nombre, teléfono, país, fecha y amount, de aquellas empresas que realizaron transacciones con un valor comprendido entre 100 y 200 euros y en alguna de estas fechas: 29 de abril de 2021, 20 de julio de 2021 y 13 de marzo de 2022.

Ordena los resultados de mayor a menor cantidad.

```
select company_name, phone, country, date(timestamp), amount
```

from transactions.transaction

join transactions.company ON company.id= transaction.company_id

where (date(timestamp)='2021-04-29' or date(timestamp)='2021-06-20' or
date(timestamp)= '2022-03-13')

and amount BETWEEN 100.00 AND 200.00 ;

```
115
116 • select company_name, phone, country, date(timestamp), amount
117 from transactions.transaction
118 join transactions.company ON company.id= transaction.company_id
119 where (date(timestamp)='2021-04-29' or date(timestamp)='2021-06-20' or date(timestamp)= '2022-03-13')
120 and amount BETWEEN 100.00 AND 200.00 ;
121
```

Result Grid					
Filter Rows: [] Export: [] Wrap Cell Content: []					
	company_name	phone	country	date(timestamp)	amount
▶	Enim Condimentum Ltd	09 55 51 66 25	United Kingdom	2021-04-29	149.89
	Nunc Interdum Incorporated	05 18 15 48 13	Germany	2022-03-13	164.32
	Nunc Interdum Incorporated	05 18 15 48 13	Germany	2021-04-29	111.51

Ejercicio 2

Necesitamos optimizar la asignación de los recursos y dependerá de la capacidad operativa que se requiera, por lo que te piden la información sobre la cantidad de transacciones que realizan las empresas,

pero el departamento de recursos humanos es exigente y quiere un listado de las empresas donde especifiques si tienen más de 4 o menos transacciones.

SELECT company_name ,

CASE

WHEN COUNT(transaction.id) > 4 THEN "Mayores"

ELSE "Menores"

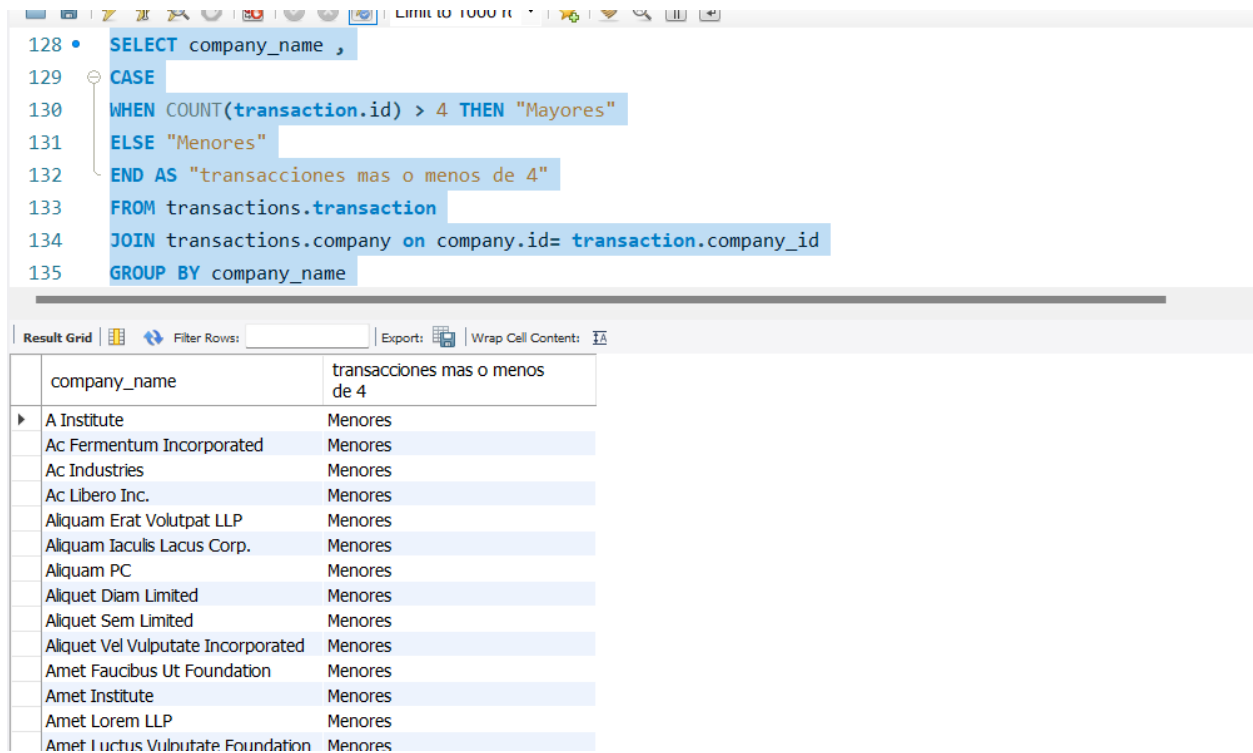
END AS "transacciones mas o menos de 4"

FROM transactions.transaction

JOIN transactions.company on company.id= transaction.company_id

GROUP BY company_name

ORDER BY company_name ASC;



The screenshot shows a SQL query editor with a query that counts transactions per company and categorizes them as 'Mayores' or 'Menores' based on a count threshold of 4. The query is as follows:

```
128 • SELECT company_name ,
129 CASE
130 WHEN COUNT(transaction.id) > 4 THEN "Mayores"
131 ELSE "Menores"
132 END AS "transacciones mas o menos de 4"
133 FROM transactions.transaction
134 JOIN transactions.company on company.id= transaction.company_id
135 GROUP BY company_name
```

Below the query editor is a 'Result Grid' showing the results of the query. The grid has two columns: 'company_name' and 'transacciones mas o menos de 4'. The results are sorted by company_name in ascending order. The first row is expanded, showing the company name 'A Institute' and the result 'Menores'. There are 17 rows in total, all of which are 'Menores'.

company_name	transacciones mas o menos de 4
A Institute	Menores
Ac Fermentum Incorporated	Menores
Ac Industries	Menores
Ac Libero Inc.	Menores
Aliquam Erat Volutpat LLP	Menores
Aliquam Iaculis Lacus Corp.	Menores
Aliquam PC	Menores
Aliquet Diam Limited	Menores
Aliquet Sem Limited	Menores
Aliquet Vel Vulputate Incorporated	Menores
Amet Faucibus Ut Foundation	Menores
Amet Institute	Menores
Amet Lorem LLP	Menores
Amet Luctus Vulputate Foundation	Menores

RETORNARON 100 FILAS