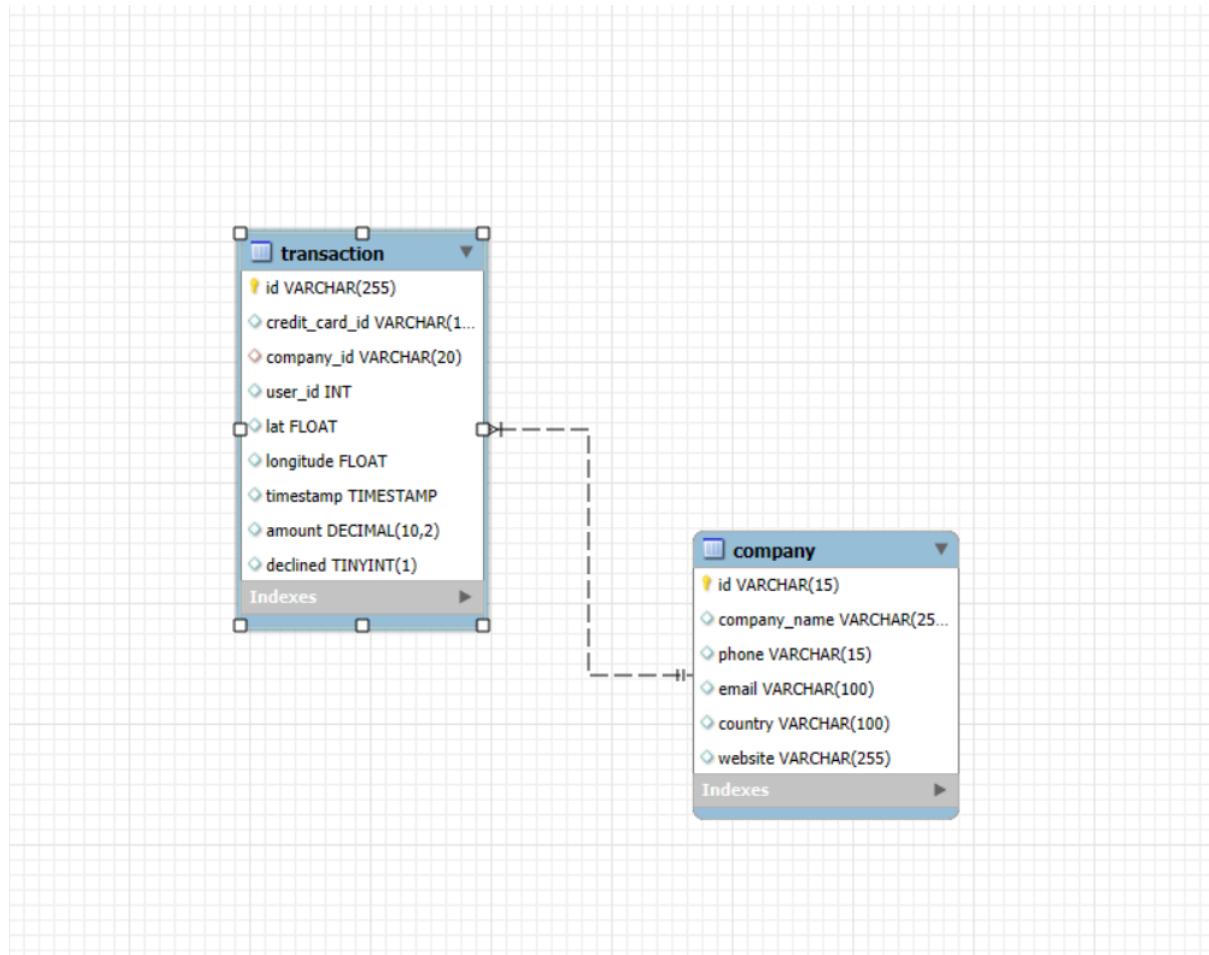


Este esquema se compone por 2 tablas, Company que contiene la información de las empresas(clientes) Con el nombre, teléfono, email, país, y página web y un Id que es la primary key, en la segunda tabla Transaction, que son las transacciones, hay las siguientes columnas, Id(que es el Id de la transacción), un credit_card_id, user_id, company_id(que sería correspondiente al Id de la tabla Company y a través de la cual están relacionadas FK), posteriormente tenemos lat y longitude que son las coordenadas, timestamp que es el dato que nos proporciona fecha y hora de la transacción (tipo timestamp lo que es un incordio al redactar las consultas pues es palabra reservada), amount que nos indica el monto de la transacción, y decline que es un dato booleano que nos indica si la transacción se realizó con éxito o no.



Ejercicio 2.1- Listado de los países que están realizando compras.

The screenshot shows the MySQL Workbench interface with the following details:

- SQL Editor:** The query is:

```
1 /*N1E2*/
2
3 • SELECT country, COUNT(country) AS cuantos
4   FROM company c
5   JOIN transaction t ON t.company_id=c.id
6   GROUP BY c.country
7   Order by cuantos;
8 */
```

- Result Grid:** The results show the count of transactions per country:

country	cuantos
Spain	2
China	3
France	6
New Zealand	11
Australia	12
Belgium	13
United States	17
Italy	17
Netherlands	18
Canada	61
Ireland	62
Norway	68
Sweden	79
United Kingdom	100
Germany	118

- Output Panel:** Shows the execution message: "1 10:36:19 SELECT country, COUNT(country) AS cuantos FROM company c JOIN transaction t ON t.company_id=c.id G... 15 row(s) returned".
- System Bar:** Shows the date and time as "10:36 a.m. 14/01/2025".

Ejercicio 2.2 Desde cuántos países se realizan las compras.

The screenshot shows the MySQL Workbench interface with the following details:

- SQL Editor:** The query is:

```
8
9 • SELECT COUNT(DISTINCT c.country) AS total_countries
10    FROM company c
11   JOIN transaction t ON t.company_id = c.id;
12 */
```

- Result Grid:** The results show the total number of countries from which purchases are made:

total_countries
15

- Output Panel:** Shows the execution message: "1 10:36:19 SELECT country, COUNT(country) AS cuantos FROM company c JOIN transaction t ON t.company_id=c.id G... 15 row(s) returned".
- System Bar:** Shows the date and time as "12:00 p.m. 14/01/2025".

Ejercicio 2.3 Identifica a la compañía con la mayor media de ventas.

The screenshot shows the MySQL Workbench interface with the following details:

- Schemas:** The current schema is "Sprint2".
- SQL Editor:** The query is:


```
1 • SELECT c.company_name, ROUND(AVG(t.amount),2) AS media_ventas
2   FROM company c
3   JOIN transaction t ON c.company_id=c.id
4   GROUP BY c.company_name
5   ORDER BY media_ventas DESC
6   LIMIT 1;
```
- Result Grid:** The result shows one row:

company_name	media_ventas
Eget Ipsum Ltd	473.08
- Output Panel:** Shows the execution message: "1 row(s) returned".
- System Bar:** Shows the date and time: "11:24 a.m. 16/01/2025".

Ejercicio 3.1 Muestra todas las transacciones realizadas por empresas de Alemania.

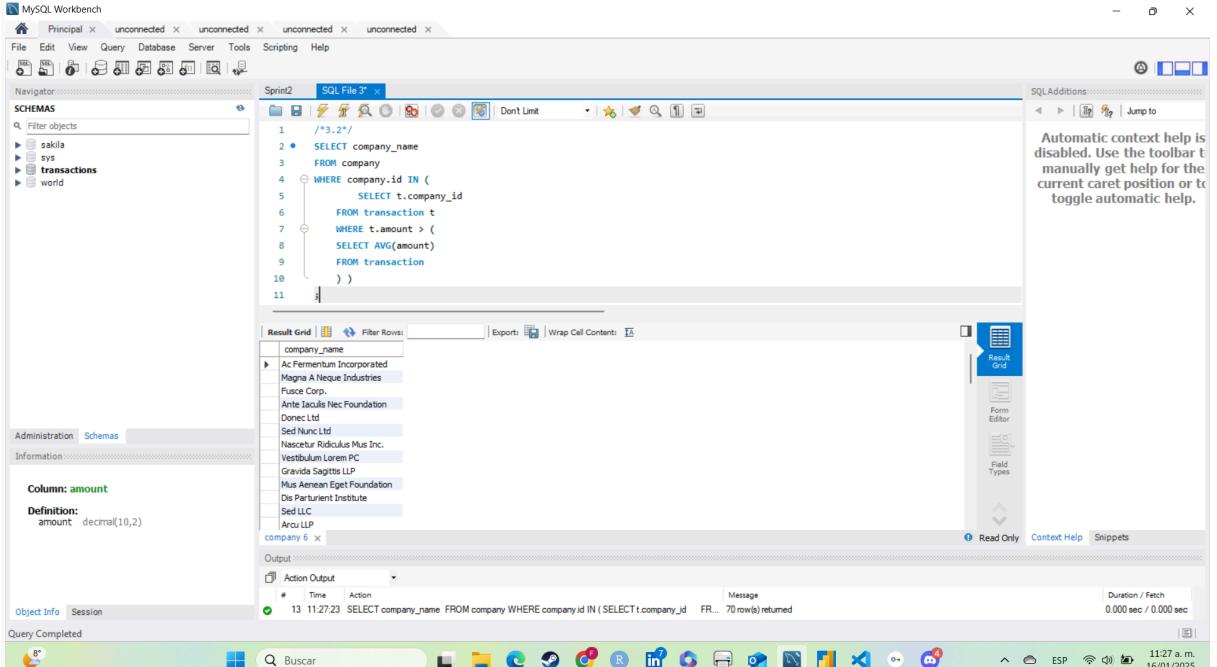
The screenshot shows the MySQL Workbench interface with the following details:

- Schemas:** The current schema is "Sprint2".
- SQL Editor:** The query is:


```
1 • SELECT t.id, t.timestamp, t.amount, c.country
2   FROM company c, transaction t
3   WHERE c.country = 'Germany' and c.id=t.company_id
```
- Result Grid:** The result shows multiple rows of transaction data for German companies:

id	timestamp	amount	country
18C4E2D0-1E4C-F35E-2198-C660B81DC25	2021-09-24 18:55:25	237.04	Germany
18CCBA7C-ABC-1-L3D-FAF3-1B497429368	2021-09-21 03:21:34	58.16	Germany
19E1ECE3-E3E-2119-1EFD-8AE-59304A4E63F	2021-07-06 21:40:15	29.63	Germany
1B117D49-136C-B46C-E94B-30C329AA239	2021-09-09 23:56:04	371.35	Germany
1B521826-5860-5A86-5361-6EB6A5CC21B7	2021-09-14 02:39:50	476.33	Germany
1C383CC4-B919-7616-6A57-EEBD0767B688	2021-09-27 16:07:34	462.35	Germany
2075B1D0-494B-7022-57B9-33ED49B72720	2022-07-13 04:07:29	87.44	Germany
241B2746-E83C-6D43-SAC9-86CFD4B28720A	2021-09-04 04:44:35	487.64	Germany
2585891B-C4CT-079E-358E-8575339E5177	2021-08-24 05:32:36	253.49	Germany
263035AA-8758-E113-8C44-408F818BF899	2021-06-21 11:23:01	199.23	Germany
2C9A4725-B19-621C-1EE4-AE9E31C0FE580	2021-08-14 09:23:34	28.95	Germany
3352F74-4B64-C1C7-D223-ABD7666887C4	2021-07-15 12:22:03	423.71	Germany
34380C0D-1811-B5C-6698-8CF585C06421	2021-07-05 10:54:54	86.65	Germany
34AA1D54-2999-DE1C-8705-C66C800B1900	2022-02-02 05:30:41	275.45	Germany
369213C7-4D65-0715-6640-05E49809914	2021-12-29 18:54:29	458.66	Germany
3A3E00C1-C191-40EF-AD9E-4C3D0A64E4A	2021-11-10 19:14:50	451.66	Germany
3E49SEC1-E1C5-26F1-03E2-2D13EAA2593A	2022-03-03 14:29:15	417.70	Germany
- Output Panel:** Shows the execution message: "118 row(s) returned".
- System Bar:** Shows the date and time: "11:26 a.m. 16/01/2025".

Ejercicio 3.2 Lista las empresas que han realizado transacciones por un amount superior a la media de todas las transacciones.



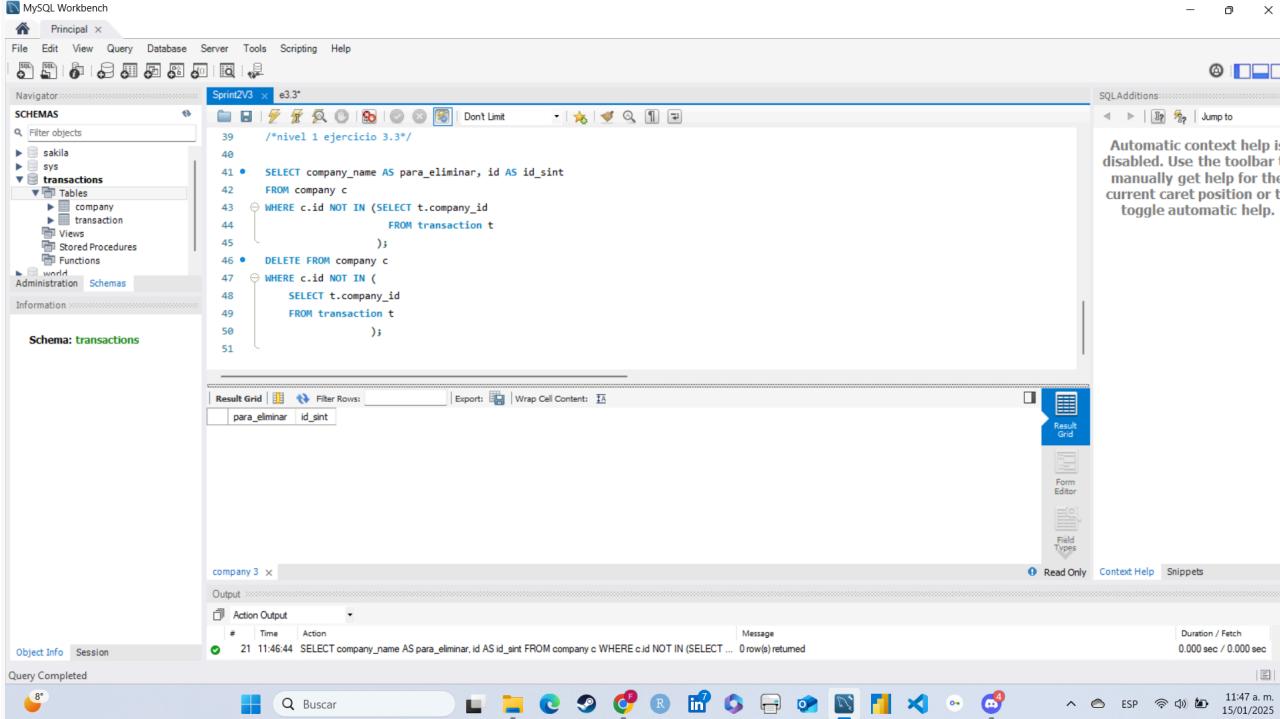
```

MySQL Workbench
File Edit View Query Database Server Tools Scripting Help
Navigator: Schemas
SCHEMAS Filter objects
sakila sys transactions world
SQL File 3* | Dont Limit
1 /*3.2*/
2 • SELECT company_name
3   FROM company
4   WHERE company.id IN (
5     SELECT t.company_id
6       FROM transaction t
7      WHERE t.amount > (
8        SELECT AVG(amount)
9          FROM transaction
10         )
11
Result Grid | Filter Rows: Export: Wrap Cell Content: 
company_name
Ac Fermentum Incorporated
Magna A Neque Industries
Fusce Corp.
Ante Iaculis Nec Foundation
Donec Ltd
Sed Nunc Ltd
Nascetur Ridiculus Mus Inc.
Vestibulum Lorem PC
Gravida Sagittis LLP
Mus Aenean Eget Foundation
Duis Parturient Institute
Sed LLC
Arcu LLP
company 6
Output: Action Output
# Time Action
13 11:27:23 SELECT company_name FROM company WHERE company.id IN (SELECT t.company_id FROM transaction t WHERE t.amount > (SELECT AVG(amount) FROM transaction)) FR... 70 row(s) returned
Object Info Session
Query Completed
11:27 a.m. 16/01/2025

```

Ejercicio 3.3 Eliminarán del sistema las empresas que carecen de transacciones registradas, entrega el listado de estas empresas.

Nota: Realice una comprobación que deje descrita en el .sql incluido



```

MySQL Workbench
File Edit View Query Database Server Tools Scripting Help
Navigator: Schemas
SCHEMAS Filter objects
sakila sys transactions
Tables
company transaction Views Functions
transaction
Administration Schemas
Information
Schema: transactions
SQL Editor: Sprint2V3 | e3.3*
39 /*nivel 1 ejercicio 3.3*/
40
41 • SELECT company_name AS para_eliminar, id AS id_sint
42   FROM company c
43   WHERE c.id NOT IN (SELECT t.company_id
44                      FROM transaction t
45                     );
46 • DELETE FROM company c
47   WHERE c.id NOT IN (
48     SELECT t.company_id
49       FROM transaction t
50      );
51
Result Grid | Filter Rows: Export: Wrap Cell Content: 
para_eliminar id_sint
Output: Action Output
# Time Action
21 11:46:44 SELECT company_name AS para_eliminar, id AS id_sint FROM company c WHERE c.id NOT IN (SELECT t.company_id FROM transaction t) 0 row(s) returned
Object Info Session
Query Completed
11:47 a.m. 15/01/2025

```

Ejercicio 1

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.

The screenshot shows the MySQL Workbench interface with a query editor and results grid. The query retrieves the top 5 days with the highest total sales from the transaction table, ordered by total sales in descending order. The results show dates from March 29 to June 21, 2021, with their respective total sales.

```
1 /*L2E1*/
2
3 • SELECT DATE(timestamp), SUM(amount) AS total_dia
4   FROM transaction
5   GROUP BY DATE(timestamp)
6   ORDER BY total_dia DESC
7   LIMIT 5;
```

DATE(timestamp)	total_dia
2021-03-29	1564.87
2021-12-20	1532.36
2021-06-15	1469.90
2021-05-09	1463.73
2021-06-21	1443.11

Ejercicio 2

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

The screenshot shows the MySQL Workbench interface with a query editor and results grid. The query calculates the average sales per country and orders the results from highest to lowest average sales. The results list various countries with their average sales values.

```
1 /*L2E2*/
2
3 • SELECT country, ROUND(avg(amount), 2) AS media_ventas
4   FROM company c
5   JOIN transaction t ON t.company_id=c.id
6   GROUP BY country
7   ORDER BY media_ventas DESC;
```

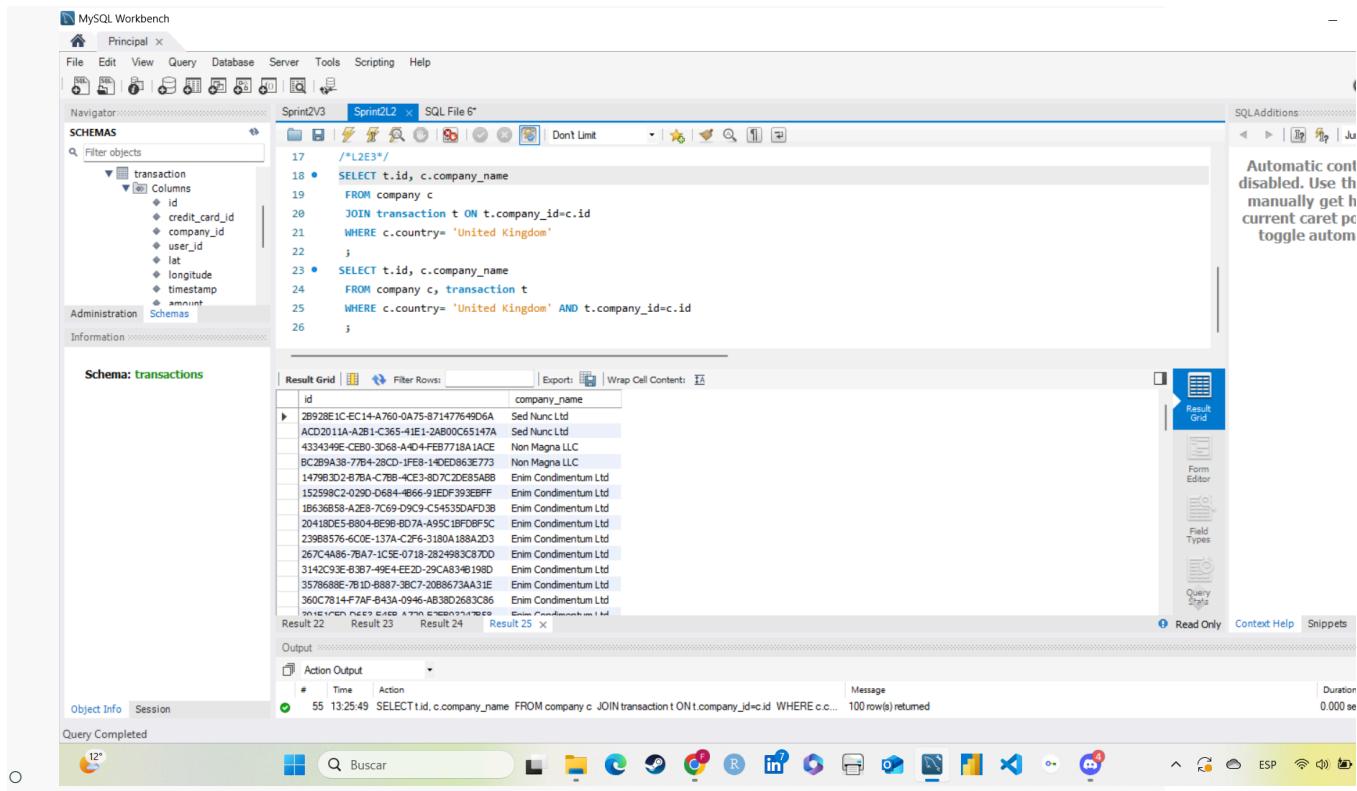
country	media_ventas
United States	209.18
Ireland	277.31
United Kingdom	270.73
Canada	269.65
Sweden	260.62
Norway	254.22
Netherlands	253.02
Germany	244.20
Australia	232.05
Belgium	228.15
China	227.56
New Zealand	222.28

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.
- Muestra el listado aplicando solo subconsultas.

Nota: En el .sql dejo indicada la consulta con la que averigüe el country de la empresa



The screenshot shows the MySQL Workbench interface. In the top-left, the Navigator pane displays the 'transaction' schema with its columns: id, credit_card_id, company_id, user_id, lat, longitude, timestamp, and amount. The main area contains two SQL queries:

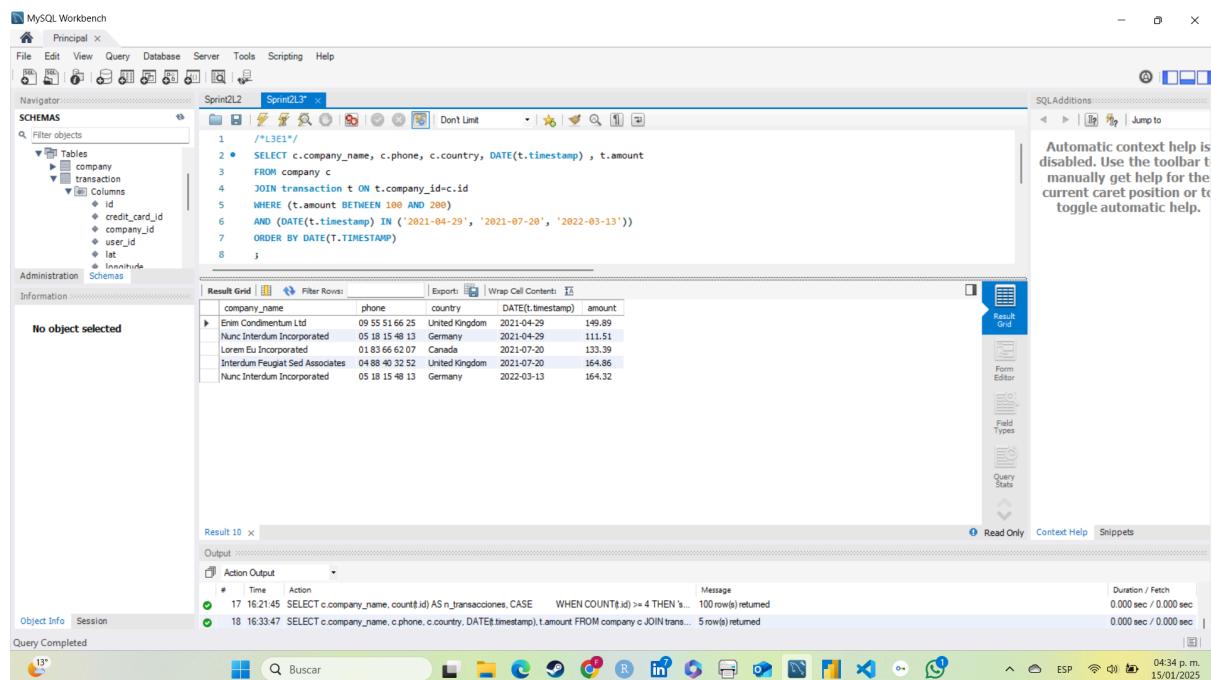
```
17 /*L2E3*/
18 • SELECT t.id, c.company_name
19   FROM company c
20  JOIN transaction t ON t.company_id=c.id
21  WHERE c.country= 'United Kingdom'
22 ;
23 • SELECT t.id, c.company_name
24   FROM company c, transaction t
25  WHERE c.country= 'United Kingdom' AND t.company_id=c.id
26 ;
```

The 'Result Grid' below shows the results of the first query, listing 25 rows of transaction IDs and company names for companies in the United Kingdom. The results are as follows:

id	company_name
2B92BE1C-EC14-A769-0475-87147764906A	Sed Nunc Ltd
ACD2011A-A2B1-C365-41E1-2AB00C65147A	Sed Nunc Ltd
4334394E-CB01-3068-A4D4-FEB718AA1ACE	Non Magna LLC
BC2B9A38-77B4-28CD-FFE8-10ED683E773	Non Magna LLC
147983D2-87BA-C7B8-4CE3-8D7C2DE85ABA	Erin Condimentum Ltd
152598C2-029D-D684-4866-91EDF393E8FF	Erin Condimentum Ltd
1B13638A-A2E9-7C69-D9C9-C54535DAPD38	Erin Condimentum Ltd
204180E5-B804-BE98-BD7A-A95C1BFDBF5C	Erin Condimentum Ltd
23988576-6C0E-137A-C2F6-3180A188A2D3	Erin Condimentum Ltd
267C4A86-7B47-1CE5-0718-2824983C87D0	Erin Condimentum Ltd
3142C93E-E3B7-49E4-EE20-29CA6346198D	Erin Condimentum Ltd
3578688E-7B1D-B887-38C7-2088673A431E	Erin Condimentum Ltd
360C7814-F7AF-B43A-0946-AB3802693C86	Erin Condimentum Ltd
379E988A-483D-4880-8A80-4880A880A880	Erin Condimentum Ltd
380C7814-F7AF-B43A-0946-AB3802693C86	Erin Condimentum Ltd
391E988A-483D-4880-8A80-4880A880A880	Erin Condimentum Ltd
392E988A-483D-4880-8A80-4880A880A880	Erin Condimentum Ltd
393E988A-483D-4880-8A80-4880A880A880	Erin Condimentum Ltd
394E988A-483D-4880-8A80-4880A880A880	Erin Condimentum Ltd
395E988A-483D-4880-8A80-4880A880A880	Erin Condimentum Ltd
396E988A-483D-4880-8A80-4880A880A880	Erin Condimentum Ltd
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39EE988A-483D-4880-8A80-4880A880A880	Erin Condimentum Ltd
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39ME988A-483D-4880-8A80-4880A880A880	Erin Condimentum Ltd
39NE988A-483D-4880-8A80-4880A880A880	Erin Condimentum Ltd
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39TE988A-483D-4880-8A80-4880A880A880	Erin Condimentum Ltd
39UE988A-483D-4880-8A80-4880A880A880	Erin Condimentum Ltd
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39GE988A-483D-4880-8A80-4880A880A880	Erin Condimentum Ltd
39HE988A-483D-4880-8A80-4880A880A880	Erin Condimentum Ltd
39IE988A-483D-4880-8A80-4880A880A880	Erin Condimentum Ltd
39OE988A-483D-4880-8A80-4880A880A880	Erin Condimentum Ltd
39PE988A-483D-4880-8A80-4880A880A880	Erin Condimentum Ltd
39QE988A-483D-4880-8A80-4880A880A880	Erin Condimentum Ltd
39RE988A-483D-4880-8A80-4880A880A880	Erin Condimentum Ltd
39VE988A-483D-4880-8A80-4880A880A880	Erin Condimentum Ltd
39WE988A-483D-4880-8A80-4880A880A880	Erin Condimentum Ltd
39YE988A-483D-4880-8A80-4880A880A880	Erin Condimentum Ltd
39ZE988A-483D-4880-8A80-4880A880A880	Erin Condimentum Ltd
39AE988A-483D-4880-8A80-4880A880A880	Erin Condimentum Ltd
39BE988A-483D-4880-8A80-4880A880A880	Erin Condimentum Ltd
39CE988A-483D-4880-8A80-4880A880A880	Erin Condimentum Ltd
39DE988A-483D-4880-8A80-4880A880A880	Erin Condimentum Ltd
39FE988A-483D-4880-8A80-4880A880A880	Erin Condimentum Ltd
39GE988A-483D-4880-8A80-4880A880A880	Erin Condimentum Ltd
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39IE988A-483D-4880-8A80-4880A880A880	Erin Condimentum Ltd
39OE988A-483D-4880-8A80-4880A880A880	Erin Condimentum Ltd
39PE988A-483D-4880-8A80-4880A880A880	Erin Condimentum Ltd
39QE988A-483D-4880-8A80-4880A880A880	Erin Condimentum Ltd
39RE988A-483D-4880-8A80-4880A880A880	Erin Condimentum Ltd
39VE988A-483D-4880-8A80-4880A880A880	Erin Condimentum Ltd
39WE988A-483D-4880-8A80-4880A880A880	Erin Condimentum Ltd
39YE988A-483D-4880-8A80-4880A880A880	Erin Condimentum Ltd
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39AE988A-483D-4880-8A80-4880A880A880	Erin Condimentum Ltd
39BE988A-483D-4880-8A80-4880A880A880	Erin Condimentum Ltd
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39AE988A-483D-4880-8A80-4880A880A880	

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.



The screenshot shows the MySQL Workbench interface with a query editor and results grid.

Query Editor:

```
1 / *SELECT*
2 • SELECT c.company_name, c.phone, c.country, DATE(t.timestamp) , t.amount
3   FROM company c
4   JOIN transaction t ON t.company_id=c.id
5   WHERE (t.amount BETWEEN 100 AND 200)
6   AND (DATE(t.timestamp) IN ('2021-04-29', '2021-07-20', '2022-03-13'))
7   ORDER BY DATE(T.TIMESTAMP)
8 ;
```

Result Grid:

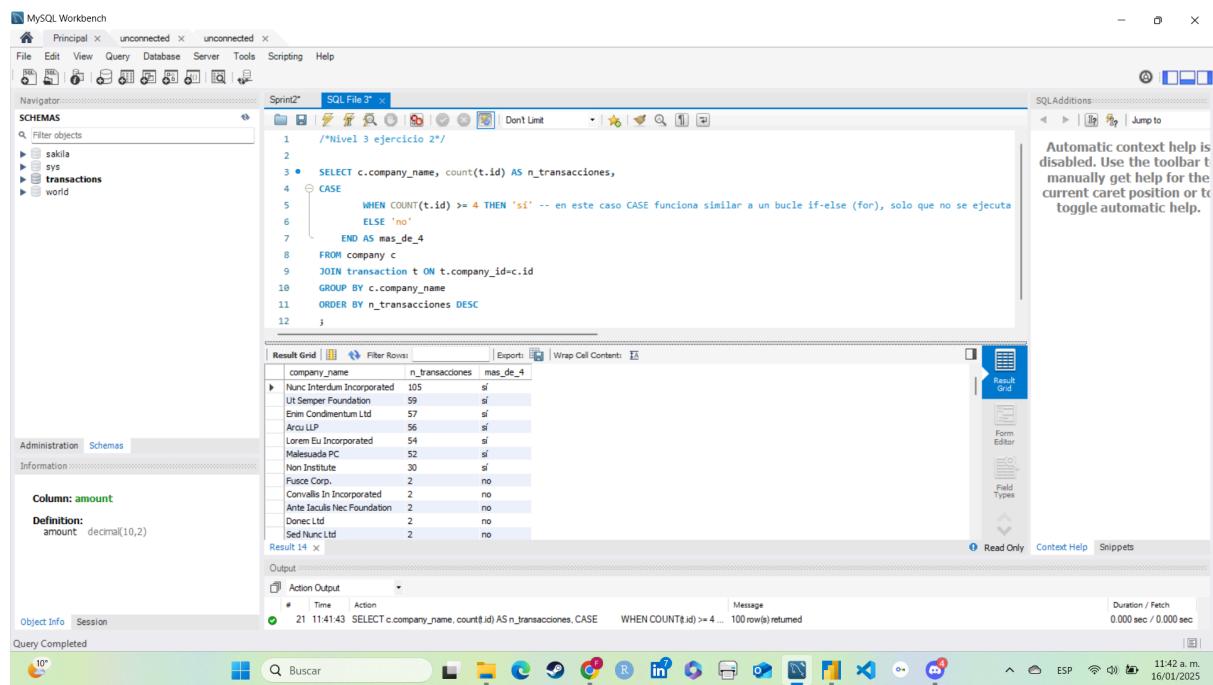
company_name	phone	country	DATE(t.timestamp)	amount
Enim Condimentum Ltd	09 55 51 66 25	United Kingdom	2021-04-29	149.89
Nunc Interdum Incorporated	05 18 15 48 13	Germany	2021-04-29	111.51
Lorem Eu Incorporated	01 83 66 62 07	Canada	2021-07-20	133.39
Interdum Feugiat Sed Associates	04 88 40 32 52	United Kingdom	2021-07-20	164.86
Nunc Interdum Incorporated	05 18 15 48 13	Germany	2022-03-13	164.32

Action Output:

#	Time	Action	Message	Duration / Fetch
17	16:21:45	SELECT c.company_name, count(t.id) AS n_transacciones, CASE WHEN COUNT(t.id) >= 4 THEN ...	100 row(s) returned	0.000 sec / 0.000 sec
18	16:33:47	SELECT c.company_name, c.phone, c.country, DATE(t.timestamp), t.amount FROM company c JOIN trans...	5 row(s) returned	0.000 sec / 0.000 sec

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.



The screenshot shows the MySQL Workbench interface. In the top-left corner, there are two tabs: "Principal" and "unconnected". The main area contains a SQL editor window titled "SQL File 3" with the following query:

```
/*Nivel 3 ejercicio 2*/
SELECT c.company_name, count(t.id) AS n_transacciones,
CASE
    WHEN COUNT(t.id) >= 4 THEN 'sí' -- en este caso CASE funciona similar a un bucle if-else (for), solo que no se ejecuta
    ELSE 'no'
END AS mas_de_4
FROM company c
JOIN transaction t ON t.company_id=c.id
GROUP BY c.company_name
ORDER BY n_transacciones DESC
;
```

Below the SQL editor is a "Result Grid" table with three columns: "company_name", "n_transacciones", and "mas_de_4". The data is as follows:

company_name	n_transacciones	mas_de_4
Nunc Interdum Incorporated	105	sí
Ut Semper Foundation	59	sí
Emin Condimentum Ltd	57	sí
Arcu LLP	56	sí
Lorem Eu Incorporated	54	sí
Maleuada PC	52	sí
Non Institute	30	sí
Fusce Cibus	2	no
Convallis Incorporated	2	no
Aliquam Erosi Net Foundation	2	no
Donec Ltd	2	no
Sed Nunc Ltd	2	no

At the bottom of the interface, the status bar displays the following information: "Object Info Session", "Query Completed", "21 11:41:43 SELECT c.company_name, count(t.id) AS n_transacciones, CASE WHEN COUNT(t.id) >= 4 ... 100 row(s) returned", "Duration / Fetch 0.000 sec / 0.000 sec", and the date and time "11:42 a.m. 16/01/2025".