



SPRINT 2: BBDD RELACIONALS I INTRODUCCIÓ A SQL

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Nivell 1

- Exercici 1

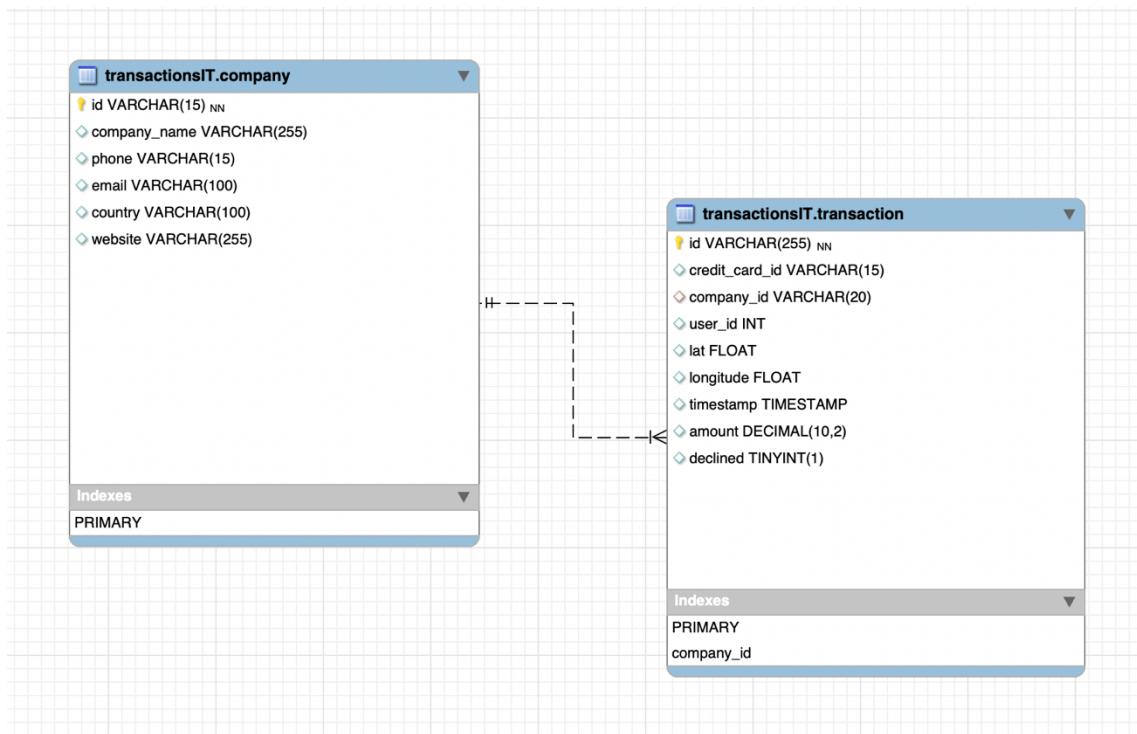
A partir dels documents adjunts (estructura_dades i dades_introduir), importa les dues taules. Mostra les característiques principals de l'esquema creat i explica les diferents taules i variables que existeixen. Assegura't d'incloure un diagrama que il·lustri la relació entre les diferents taules i variable

La tabla *company* contiene datos de la compañía, como nombre, teléfono, email, país, website; todos los atributos son de tipo *varchar*, cambia la longitud, por ejemplo, *company_name* tiene una longitud de 255 caracteres mientras que *phone* tiene una longitud de 15 caracteres.

También podemos observar en el diagrama entidad relación (ER) que la tabla *transaction* se relacion con la tabla *company* a través del campo *company_id*.

En la tabla *transaction* podemos observar otros tipos de datos, como por ejemplo, *int* (números enteros), *float* (decimal), *timestamp* (fecha y hora), *decimal*, *tinyint* (enteros pequeños)

La relación entra las dos tablas es de 1:N.



- Exercici 2

Utilitzant JOIN realitzaràs les següents consultes:

- Llistat dels països que estan fent compres.

MySQL Workbench

Administration Schemas

SCHEMAS Filter objects

- curso025
- cursondb
- ExamenM2
- keepcoding
- movies
- newschema
- sales
- School
- sys
- transactions
- transactionsIT**

Tables

- company
- credit_card
- transaction
- user

Views

Stored Procedures

Functions

Query 1 Tasca_S2_01_Nocions_SQL*

```

2 ##### NIVEL 1 #####
3
4
5 #Exercici 2.1: Llistat dels països que estan fent compres.
6 • SELECT DISTINCT(c.country) as País
7     FROM transaction t
8         INNER JOIN company c
9             ON t.company_id = c.id;
10
11
12
13

```

Result Grid Filter Rows: Q Search Export:

Pais
Germany
Australia
United States
New Zealand
Norway
United Kingdom
Italy
Belgium
Sweden
Ireland
China
Canada
France
Netherlands
Spain

Action Output

Time	Action	Response	Duration / Fe
10:37:25	SELECT DISTINCT(c.country) as País FROM transaction t INNER JOIN company c ON t.company_id = c.id LIMIT 0, 1000	15 row(s) returned	0.0017 sec /

Query Completed

- Des de quants països es realitzen les compres.

MySQL Workbench

Administration Schemas

SCHEMAS Filter objects

- curso025
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Tables

- company
- credit_card
- transaction
- user

Views

Stored Procedures

Functions

Query 1 Tasca_S2_01_Nocions_SQL*

```

14
15
16
17
18
19 #Exercici 2.2: Des de quants països es realitzen les compres.
20 • SELECT COUNT(DISTINCT(c.country)) as Total_Paises
21     FROM transaction t
22         INNER JOIN company c
23             ON t.company_id = c.id;
24
25

```

Result Grid Filter Rows: Q Search Export:

Total_Paises
15

Action Output

Time	Action	Response
10:41:54	SELECT COUNT(DISTINCT(c.country)) as Total_Paises FROM transaction t INNER JOIN company c ON t.company_id = c.id LIMIT 0, 1000	1 row(s) returned

- Identifica la companyia amb la mitjana més gran de vendes.

MySQL Workbench

Conexión Local - Warning - not supported

Query 1 Tasca_S2_01_Nocions_SQL*

... S... Limit to 1000 rows

SCHEN

32
33 #Exercici 2.3: Identifica la companyia amb la mitjana més gran de vendes.
34 • SELECT c.company_name as Compañía
35 , ROUND(AVG(t.amount), 2) as Media
36 FROM transaction t
37 INNER JOIN company c
38 ON t.company_id = c.id
39 GROUP BY c.company_name
40 ORDER BY Media DESC
41 LIMIT 1;
42
43
44
45
46
47
48
49

100% 13:41

Result Grid Filter Rows: Search Export: Fetch rows:

Compañía	Media
Eget Ipsum Ltd	473.08

Result 9

Action Output

Time	Action	Response	Duration / F
10:58:04	SELECT c.company_name as Compañía , ROUND(AVG(t.amount), 2) as...	1 row(s) returned	0.0038 sec / C

Query Completed

- Exercici 3

- Mostra totes les transaccions realitzades per empreses d'Alemanya.

MySQL Workbench

Administration Schemas Query 1 Tasca_S2_01_Nocions_SQL Limit to 1000 rows

```

1 #Utilitzant només subconsultes (sense utilitzar JOIN):
2 #Exercici 3.1: Mostra totes les transaccions realitzades per empreses d'Alemanya.
3
4 • SELECT *
5   FROM transaction
6   WHERE company_id IN ( SELECT id
7     FROM company
8     WHERE country = "Germany");
9
10

```

Result Grid Filter Rows: Search Export/Import:

id	credit_card_id	company_id	user_id	lat	longitude	timestamp	amount	declined
1088101D-5B23-A7C8-55EF-C568E40A05...	Ccu12938	b-2222	275	83.7839	-178.86	2021-07-07 17:43:16	293.57	0
EA2C9281-C9C1-A387-44F8-729FB4B5C76...	Ccu12938	b-2222	275	20.2004	-116.84	2021-05-09 10:25:08	119.36	1
0DD2E60B-5C9E-D1B3-4099-B99f43AD73...	Ccu12959	b-2234	275	9.68811	-130.284	2021-04-17 05:30:17	252.47	1
AB069F53-965E-A2A8-CE06-CABC4FD92...	Ccu12859	b-2234	275	1.64918	-158.007	2021-04-15 13:37:18	60.99	0
0466A42E-47CF-BD24-FD01-C0B689713126...	Ccu14219	b-2302	170	-43.6955	-117.525	2021-07-26 07:29:18	49.53	0
04476ED9-0C13-1962-F7B7-D3563924B539...	Ccu14359	b-2302	221	-56.4901	-114.801	2022-02-26 20:33:54	430.49	0
122DC333-E19F-D629-DCD8-9C5ACF1EB...	Ccu14366	b-2302	221	29.6372	-166.173	2021-06-09 06:04:14	172.01	0
135267BA-2E7D-957C-C42c-6450A26...	Ccu14520	b-2302	210	20.6724	14.9734	2021-12-29 03:38:23	17.97	0
14CAE5B5-8FB1-3E4A-4C85-0EA4167534F4...	Ccu14849	b-2302	189	-53.6202	93.0538	2021-12-31 00:29:42	388.04	0
15BA3ACB-5A1C-DBCC-65BD-8373C67B...	Ccu14849	b-2302	183	42.5424	-170.347	2022-03-08 05:02:19	240.29	0
162C7E78-2B6B-7971-A1E4-D2124E732451...	Ccu14527	b-2302	210	-69.1381	58.0017	2021-04-11 05:59:18	231.26	0
1717FD6B-ADAD-7082-A748-9112BE892C...	Ccu14219	b-2302	172	69.4892	-138.411	2021-12-29 16:18:54	249.91	0
1753A288-9FC1-S2E6-5C39-A1FFF97B0D3A...	Ccu14345	b-2302	222	57.9422	-114.729	2021-08-17 05:32:08	497.84	0
186F53D0-DE27-B1FE-B2F2-15B61CEB7...	Ccu14310	b-2302	225	-72.7448	36.6211	2021-12-20 13:13:45	238.16	0
18CE42D0-1E4C-F35E-219B-C660BD01...	Ccu14849	b-2302	177	68.0133	91.4839	2021-09-24 18:55:25	237.04	0
19E1EC3E-2119-1EFD-8AAE-5930D4A4E6...	Ccu14219	b-2302	154	-56.0839	116.987	2021-07-06 21:40:15	29.63	0
1B117D49-936C-BA6C-E94B-30C3293AA239...	Ccu14219	b-2302	163	-75.099	109.034	2021-05-09 23:56:04	371.35	0
1B521B26-5860-5A86-5364-6EB6A5CC21B7...	Ccu14226	b-2302	231	-53.4613	49.1484	2021-08-14 02:39:50	476.33	0

Action Output

Time	Action	Response
01 13:30:35	SELECT c.country as País , AVG(t.amount)...	10 row(s) returned
02 13:30:49	SELECT c.country as País , AVG(t.amount)...	1 row(s) returned
03 13:30:59	SELECT c.country as País , AVG(t.amount)...	1 row(s) returned
04 13:31:01	SELECT c.country as País , AVG(t.amount)...	1 row(s) returned
05 13:36:16	SELECT * FROM transaction WHERE com...	118 row(s) returned

- Llista les empreses que han realitzat transaccions per un amount superior a la mitjana de totes les transaccions.

MySQL Workbench

Administration Schemas Query 1 Tasca_S2_01_Nocions_SQL Limit to 1000 rows

```

1 #Exercici 3.2: Llista les empreses que han realitzat transaccions per un amount superior a la mitjana de totes les transaccions.
2 • SELECT company_name
3   , country
4   FROM company
5   WHERE id IN ( SELECT company_id
6     FROM transaction
7     WHERE amount > (SELECT AVG(amount)
8       FROM transaction));
9

```

Result Grid Filter Rows: Search Export:

company_name	country
Ac Fermentum Incorporated	Germany
Magna A Neque Industries	Australia
Fusco Corp.	United States
Ante Iaculis Nec Foundation	New Zealand
Donec Ltd	Norway
Sed Nunc Ltd	United Kingdom
Nascetur Ridiculus Mus Inc.	United States
Vestibulum Lorem PC	Belgium
Curabitur Sagittis LLP	Sweden
Mus Adipiscing Egell Foundation	Sweden
Die Parturient Institute	Ireland
Sed LLC	Belgium
Arcu LLP	Norway
Fringilla LLC	New Zealand
Eii Etiam Lanteet Associates	Canada
Nunc Interdum Incorporated	Germany
Augue Foundation	Germany
Non Magna LLC	United Kingdom
A Institute	Belgium

Action Output

Time	Action	Response
03 13:30:59	SELECT c.country as País , AVG(t.amount)...	10 row(s) returned
04 13:31:01	SELECT c.country as País , AVG(t.amount)...	1 row(s) returned
05 13:36:16	SELECT * FROM transaction WHERE com...	118 row(s) returned
06 13:39:27	SELECT company_name , country FROM co...	70 row(s) returned
07 13:40:40	SELECT company_name , country FROM co...	70 row(s) returned

- Eliminaran del sistema les empreses que no tenen transaccions registrades, entrega el llistat d'aquestes empreses.

The screenshot shows the MySQL Workbench interface. In the top-left sidebar, there are sections for MANAGEMENT (Server Status, Client Connections, Users and Privileges, Status and System Variables, Data Export, Data Import/Restore), INSTANCE (Startup / Shutdown, Server Logs, Options File), and PERFORMANCE (Dashboard, Performance Reports, Performance Schema Setup). The main area has tabs for Administration and Schemas. A query editor window titled 'Query 1' is open, containing the following SQL code:

```

1  # Exercici 3.3: Eliminaran del sistema les empreses que no tenen transaccions registrades, entrega el llistat d'aquestes empreses.
2  SELECT *
3    FROM company
4   WHERE id NOT IN (SELECT company_id
5                      FROM transaction);
6

```

The result grid below the query editor shows a single row of data:

id	company_name	phone	email	country	website
HULL	HULL	HULL	HULL	HULL	HULL

In the bottom right corner of the interface, there is a 'company 66' tab and a 'Action Output' section displaying a log of recent actions:

Action	Time	Response
SELECT c.country as País , AVG(t.amount) as Total from transaction t inner join company c on t.company_id = c.id group by País	13:31:01	1 row(s) returned
SELECT * FROM transaction WHERE company_id = 66	13:36:16	118 row(s) returned
SELECT company_name , country FROM company	13:39:27	70 row(s) returned
SELECT company_name , country FROM company WHERE id NOT IN (SELECT company_id FROM transaction)	13:40:40	70 row(s) returned
SELECT * FROM company WHERE id NOT IN (SELECT company_id FROM transaction)	13:42:01	0 row(s) returned

At the bottom left, it says 'Query Completed'.

Nivell 2

- Exercici 1
 - o Identifica els cinc dies que es va generar la quantitat més gran d'ingressos a l'empresa per vendes. Mostra la data de cada transacció juntament amb el total de les vendes.

MySQL Workbench

Conexión Local - Warning - not supported

Query 1 Tasca_S2_01_Nocions_SQL*

```

80 ##### NIVEL 2 #####
81
82
83 #Exercici 1: Identifica els cinc dies que es va generar la quantitat més gran d'ingressos a l'empresa per vendes.
84 #Mostra la data de cada transacció juntament amb el total de les vendes.
85 • SELECT date(timestamp) as Fecha
86     , SUM(amount) as Total
87     FROM transaction
88     WHERE declined = 0
89     GROUP BY date(timestamp)
90     ORDER BY Total DESC
91     LIMIT 5;
92
93
94
95
96
97

```

Result Grid

Fecha	Total
2021-12-20	1532.36
2021-04-22	1397.96
2021-05-09	1344.37
2022-02-26	1337.62
2021-03-29	1325.12

Action Output

Time	Action	Response
10:59:44	SELECT date(timestamp) as Fecha , SUM(amount) as Total FROM transaction WHERE declined = 0 GROUP BY date(timestamp) ORDER BY Total DESC LIMIT 5	5 row(s) returned

- Exercici 2

- Quina és la mitjana de vendes per país? Presenta els resultats ordenats de major a menor mitjà

MySQL Workbench

Conexión Local - Warning - not supported

Query 1 Tasca_S2_01_Nocions_SQL*

```

98     #Exercici 2: Quina és la mitjana de vendes per país? Presenta els resultats ordenats de major a menor mitjà.
99
100 •  SELECT AVG(amount) as Mediana
101      , c.country as País
102      FROM transaction t
103      INNER JOIN company c |
104          ON t.company_id = c.id
105      WHERE t.declined = 0
106      GROUP BY c.country
107      ORDER BY Mediana DESC;
108
109
110
111

```

Result Grid

Mediana	País
287.531111	United States
285.825357	Ireland
276.668382	Sweden
271.767527	United Kingdom
258.281607	Canada
255.217500	Belgium
251.114918	Norway
243.342222	Italy
242.239189	Germany
240.940000	Netherlands
222.240000	China
177.331667	Australia
169.410000	France
167.061667	New Zealand
26.220000	Spain

Action Output

Time	Action	Response	Duration / Fetch Time
11:02:09	SELECT AVG(amount) as Mediana , c.country as País FROM transaction t INNER J... 15 row(s) returned	15 row(s) returned	0.0045 sec / 0.0000...

- Exercici 3

- En la teva empresa, es planteja un nou projecte per a llançar algunes campanyes publicitàries per a fer competència a la companyia "Non Institute". Per a això, et demanen la llista de totes les transaccions realitzades per empreses que estan situades en el mateix país que aquesta companyia.
 - Mostra el llistat aplicant JOIN i subconsultes.

Conexión Local - Warning - not supported

MySQL Workbench

Schema: Tasca_S2_01_Nocions_SQL

Query 1 Limit to 1000 rows

```

116 #Per a això, et demanen la llista de totes les transaccions realitzades per empreses que estan situades en el mateix país que aquesta companyia.
117
118 # Mostra el llistat aplicant JOIN i subconsultes.
119 • SELECT *
120   FROM transaction t
121   INNER JOIN company c
122     ON t.company_id = c.id
123   WHERE c.country = (SELECT country
124     FROM company
125     WHERE company_name = "Non Institute"
126   );
127
128
129
130 100% 9:126

```

Result Grid Filter Rows Search Export:

id	credit_card_id	company_id	user_id	lat	longitude	timestamp	amount	declined	id	company_name
2B928E1C-EC14-A760-0A75-871477649D6A	CuU-2980	b-2246	275	-41.0496	161.686	2021-08-10 08:14:49	383.73	0	b-2246	Sed Nunc Ltd.
ACD2011A-A2B1-C365-41E1-2AB00C6514...	CuU-2980	b-2246	275	-54.4792	-82.7974	2022-03-05 20:41:20	60.07	1	b-2246	Sed Nunc Ltd.
433A39E-CEB0-3D68-A4D4-FEB7718A1...	CuU-3092	b-2310	275	-20.4859	150.207	2021-05-03 22:37:23	458.74	0	b-2310	Non Magna LLC
BC2B9A38-77B4-28CD-1FED-14DE6D83...	CuU-2994	b-2310	275	-7.0295	18.5232	2021-10-18 07:27:35	477.95	1	b-2310	Non Magna LLC
14793D2-87B4-C7B8-ACE3-D07C2DE8...	CuU-2994	b-2326	133	66.2672	172.339	2021-08-09 00:58:07	309.45	0	b-2326	Erim Condimer
1526933-90D9-40D9-B5C0-5C643D30...	CuU-2994	b-2326	126	-67.0189	-141.672	2021-07-05 03:10:00	395.43	0	b-2326	Erim Condimer
20418D5-E809-4D93-95C0-5C643D30...	CuU-2994	b-2326	110	-70.1145	-151.481	2022-01-03 15:59:29	479.52	0	b-2326	Erim Condimer
239B8576-6C0E-137A-C2F6-3180A18A2D...	CuU-2994	b-2326	126	23.6174	137.222	2021-08-26 06:04:05	43.90	0	b-2326	Erim Condimer
267CA486-7BA7-1C5E-0718-2824983C87DD	CuU-2994	b-2326	126	-17.5259	104.915	2021-10-01 21:08:53	122.63	0	b-2326	Erim Condimer
3142C93E-B3B7-49E4-E2D2-29CA834B19...	CuU-2994	b-2326	126	-67.8476	-119.978	2021-04-06 17:24:44	91.59	0	b-2326	Erim Condimer
3576688E-7B1D-B887-3B27-2088B73A3A1E	CuU-2994	b-2326	126	87.0684	-22.7339	2021-07-26 22:59:24	303.60	0	b-2326	Erim Condimer
360C1748-7B1D-B887-3B27-2088B73A3A1E	CuU-2994	b-2326	116	7.93005	-79.0739	2021-07-06 08:48:48	498.13	0	b-2326	Erim Condimer
391CE1FD-BE85-E5B8-A729-F2EB930241...	CuU-2994	b-2326	115	60.5512	103.904	2021-10-09 10:39:58	271.27	0	b-2326	Erim Condimer
3C4D7C2A-A02-B91-425A-D64C5A52...	CuU-2994	b-2326	117	23.1627	-10.381	2021-04-25 19:11:52	441.27	0	b-2326	Erim Condimer
3ED63A2C-01CA-D6E9-2BDB-24B3A791...	CuU-4219	b-2326	137	69.0549	96.5033	2021-03-29 11:38:38	478.54	0	b-2326	Erim Condimer
3FECA131-98ED-2EAB-1776-82874C80D0...	CuU-2994	b-2326	126	-78.2489	179.063	2021-07-05 04:59:17	393.42	0	b-2326	Erim Condimer
4171919a-471e-477c-9f1e-76nnn3e708a9	CuU-1919	b-2298	198	-51.7980	86.2204	2022-01-16 16:49:45	48.83	0	b-2298	Erim Condimer

Result 15

Action Output

Time	Action	Response	Duration / Fetch Time
11:02:58	SELECT * FROM transaction t INNER JOIN company c ON t.company_id = c.id WHERE c.country = (SELECT country FROM company WHERE company_name = "Non Institute") LIMIT 0, 1000	100 row(s) returned	0.0030 sec / 0.0000...

Query Completed

- Mostra el llistat aplicant solament subconsultes.

Conexión Local - Warning - not supported

MySQL Workbench

Administration Schemas Query 1 Tasca_S2_01_Nocions_SQL

Limit to 1000 rows

```

1 ##### NIVEL 2 #####
2
3 #Exercici 3: En la teva empresa, es planteja un nou projecte per a llançar algunes campanyes publicitàries per a fer competència a la companyia "Non
4 #Per a això, et demanen la llista de totes les transaccions realitzades per empreses que estan situades en el mateix país que aquesta companyia.
5
6 # Mostra el llistat aplicant solament subconsultes.
7 • SELECT *
8   FROM transaction
9   WHERE company_id IN ( SELECT id
10     FROM company
11       WHERE country = (SELECT country
12         FROM company
13           WHERE company_name = "Non Institute"
14       )
15   );
16

```

Result Grid Filter Rows Search Export/Import:

id	credit_card_id	company_id	user_id	lat	longitude	timestamp	amount	declined
2B928E1C-EC14-A760-0A75-871477649D6A	CuU-2980	b-2246	275	-41.0498	161.688	2021-08-10 08:14:49	383.73	0
ACD2011A-A2B1-C365-41E1-2AB00C6514...	CuU-2980	b-2246	275	-54.4792	-82.7974	2022-03-05 20:41:20	60.07	1
433A39E-CEB0-3D68-A4D4-FEB7718A1...	CuU-3092	b-2310	275	-20.4859	150.207	2021-05-03 22:37:23	458.74	0
BC2B9A38-77B4-28CD-1FED-14DE6D83...	CuU-2994	b-2310	275	-7.0295	18.5232	2021-10-18 07:27:35	477.95	1
14793D2-87B4-C7B8-ACE3-D07C2DE8...	CuU-2994	b-2326	133	66.2672	172.339	2021-08-09 00:58:07	309.45	0
1526933-90D9-40D9-B5C0-5C643D30...	CuU-2994	b-2326	126	-67.0189	-141.672	2021-07-05 03:10:00	395.43	0
20418D5-E809-4D93-95C0-5C643D30...	CuU-2994	b-2326	110	-70.1145	-151.481	2022-01-03 15:59:29	479.52	0
239B8576-6C0E-137A-C2F6-3180A18A2D...	CuU-2994	b-2326	126	23.6174	137.222	2021-08-26 06:04:05	43.90	0
267CA486-7BA7-1C5E-0718-2824983C87DD	CuU-2994	b-2326	126	-17.5259	104.915	2021-10-01 21:08:53	122.63	0
3142C93E-B3B7-49E4-E2D2-29CA834B19...	CuU-2994	b-2326	126	-67.8476	-119.978	2021-04-06 17:24:44	91.59	0
3576688E-7B1D-B887-3B27-2088B73A3A1E	CuU-2994	b-2326	126	87.0684	-22.7339	2021-07-26 22:59:24	303.60	0
391CE1FD-BE85-E5B8-A729-F2EB930241...	CuU-2994	b-2326	115	60.5512	103.904	2021-10-09 10:39:58	271.27	0
3C4D7C2A-A02-B91-425A-D64C5A52...	CuU-2994	b-2326	117	23.1627	-10.381	2021-04-25 19:11:52	441.27	0
3ED63A2C-01CA-D6E9-2BDB-24B3A791...	CuU-4219	b-2326	137	69.0549	96.5033	2021-03-29 11:38:38	478.54	0
3FECA131-98ED-2EAB-1776-82874C80D0...	CuU-2994	b-2326	126	-78.2489	179.063	2021-07-05 04:59:17	393.42	0
4171919a-471e-477c-9f1e-76nnn3e708a9	CuU-1919	b-2298	198	-51.7980	86.2204	2022-01-16 16:49:45	48.83	0

transaction 78

Nivell 3

- Exercici 1

Presenta el nom, telèfon, país, data i amount, d'aquelles empreses que van realitzar transaccions amb un valor comprès entre 100 i 200 euros i en alguna d'aquestes dates: 29 d'abril del 2021, 20 de juliol del 2021 i 13 de març del 2022. Ordена els resultats de major a menor quantitat.

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

```
150 # en alguna d'aquestes dates: 29 d'abril del 2021, 20 de juliol del 2021 i 13 de març del 2022. Ordena els resultats de major a menor quantitat.
151
152 • SELECT c.company_name
153     , c.phone
154     , c.country
155     , t.timestamp
156     , t.amount
157 FROM company c
158 INNER JOIN transaction t
159     ON c.id = t.company_id
160 WHERE (t.amount BETWEEN 100 AND 200) AND
161     (date(timestamp) IN ('2021-04-29', '2021-07-20', '2022-03-13'))
162 ORDER BY t.amount;
163
```

The results grid displays the following data:

company_name	phone	country	timestamp	amount
Nume Intendum Incorporated	05 18 15 48 13	Germany	2021-04-29 02:25:49	111.51
Loren Ipsum Ltd	01 83 45 50 07	Central	2021-07-20 10:17:44	133.90
Erin Condimentum Ltd	05 18 51 66 25	United Kingdom	2021-03-13 10:17:02	169.89
Nume Intendum Incorporated	05 18 15 48 13	Germany	2021-03-13 13:37:34	164.32
Intendum Fugiat Sed Associates	04 88 40 32 52	United Kingdom	2021-07-29 10:12:15	164.86

Action Output: Response Duration / Fetch Time

1 11:04:55 SELECT c.company_name , c.phone , c.country , t.timestamp , t.amount FROM company c INNER JOIN transaction t ON c.id = t.company_id WHERE (t.amount BETWEEN 100 AND 200) AND (date(timestamp) IN ('2021-04-29', '2021-07-20', '2022-03-13')) 5 row(s) returned 0.0020 sec / 0.00000...

- Exercici 2

Necessitem optimitzar l'assignació dels recursos i dependrà de la capacitat operativa que es requereixi, per la qual cosa et demanen la informació sobre la quantitat de transaccions que realitzen les empreses, però el departament de recursos humans és exigent i vol un llistat de les empreses on especificuis si tenen més de 4 transaccions o menys.

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

```
171 #Exercici 2: Necessitem optimitzar l'assignació dels recursos i dependrà de la capacitat operativa que es requereixi, per la qual cosa et demanen la informació
172 # sobre la quantitat de transaccions que realitzen les empreses, però el departament de recursos humans és exigent i vol un llistat de les empreses on
173 # especificuis si tenen més de 4 transaccions o menys.
174
175 • SELECT t.company_id
176     , c.company_name
177     , COUNT(t.amount) as N_Transacciones
178     , IF (COUNT(t.amount) >= 4, "SI", "NO") as Más_de_4_transacciones
179 FROM transaction t
180 INNER JOIN company c
181     ON c.id = t.company_id
182 GROUP BY company_id
183
```

The results grid displays the following data:

company_id	company_name	N_Transacciones	Más_de_4_transacciones
b-2222	Ac Fermentum Incorporated	2	NO
b-2225	Magna A Neque Industries	2	NO
b-2230	Aliquam Sit	2	NO
b-2234	Convallis In Incorporated	2	NO
b-2238	Ante Iaculis Nec Foundation	2	NO
b-2242	Donec Ltd	2	NO
b-2246	Sed Nunc Ltd	2	NO
b-2250	Amet Nulla Inter Corporation	2	NO
b-2254	Nulla Dolor Individua. Mus Inc.	2	NO
b-2258	Vestibulum Lorem PC	2	NO
b-2262	Gravida Sagittis LLP	2	NO
b-2266	Mus Aenean Eget Foundation	2	NO
b-2270	Dis Parturient Institute	2	NO
b-2274	Sed LLC	2	NO
b-2278	Arcu Ltd	56	SI
b-2282	Premium Neque Corp.	2	NO
b-2286	Fringilla LLC	2	NO
b-2290	Quisque Libero LLC	2	NO
b-2294	Auctor Mauris Vel LLP	2	NO
b-2298	Felit Etiam I annet Associates	2	NO

Action Output: Response Duration / Fetch Time

1 11:05:30 SELECT t.company_id , c.company_name , COUNT(t.amount) as N_Transacciones , IF(COUNT(t.amount) >= 4, "SI", "NO") as Más_de_4_transacciones FROM transaction t INNER JOIN company c ON c.id = t.company_id 100 row(s) returned 0.0034 sec / 0.00000...