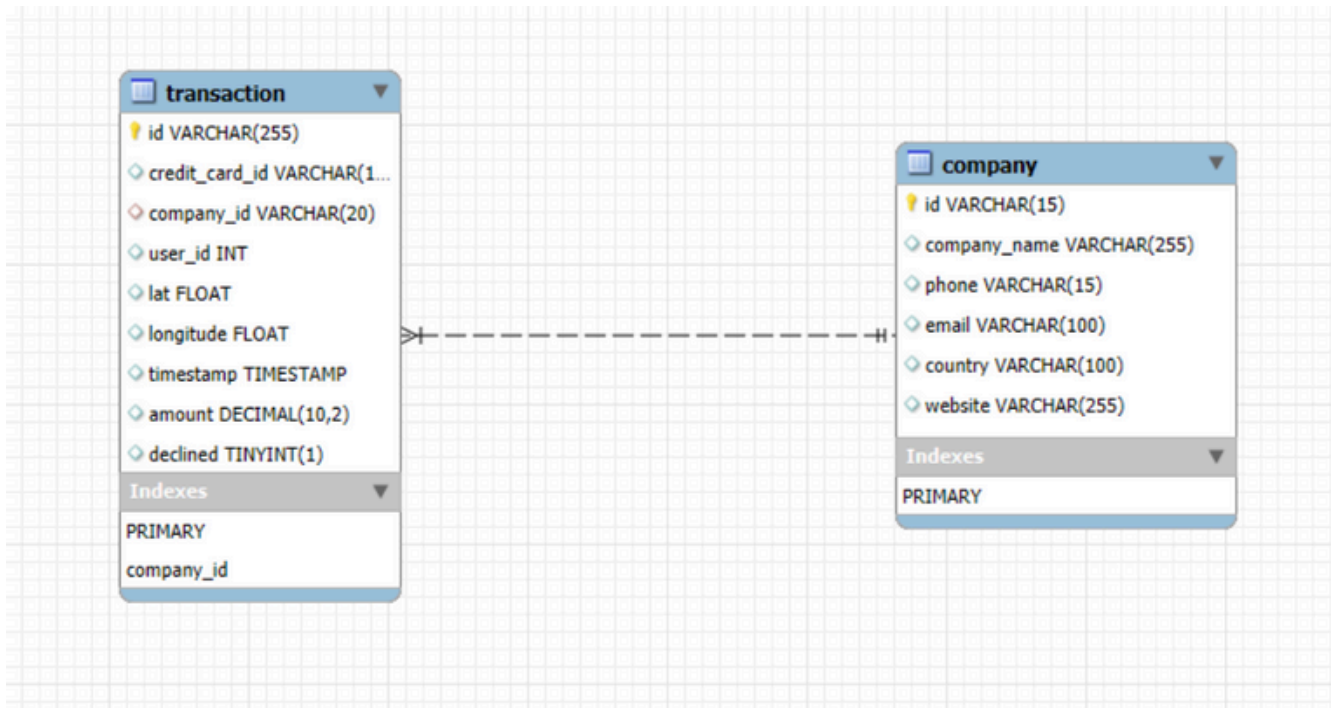


NIVELL 1 – ex.1

TRANSACTIONS



- Aquesta base de dades relaciona dues taules, en el que una taula amb Primary Key es relaciona amb una altra taula amb Foreign Key.
- La taula transaction, central, té una relació **1 a n** amb company.
- Aquesta estructura permet normalització, escalabilitat i també integritat referencial.
- La Clau primària de transaction és id (VARCHAR(255)), i l'identificador únic de la transacció.
- La Clau primària de company és id (VARCHAR(15)), i l'identificador únic de l'empresa.

NIVELL 1 – ex. 2 – a

Utilitzant JOIN realitzaràs les següents consultes:

- Llistat dels països que estan fent compres.

The screenshot shows a SQL IDE interface with a query editor and a results pane. The query editor contains the following SQL code:

```
7  
8  
9 • SELECT DISTINCT c.Country  
10 FROM Company c  
11 INNER JOIN Transaction t ON c.id=t.company_id  
12 WHERE declined=0;  
13
```

The results pane displays a table with the following data:

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

The bottom pane shows the output of the query execution:

#	Time	Action	Message
1	11:42:30	SELECT DISTINCT c.Country FROM Company c INNER JOIN Transaction t ON c.id=t.company_id ...	15 row(s) returned

NIVELL 1 – ex. 2 – b

Utilitzant JOIN realitzaràs les següents consultes:

- Des de quants països es realitzen les compres.

The screenshot shows a SQL IDE interface with a query editor and a results pane. The query editor contains the following SQL code:

```
28 |  
29 | SELECT COUNT(DISTINCT c.Country)  
30 | FROM Company c  
31 | INNER JOIN Transaction t ON c.id=t.company_id;  
32 |
```

The results pane shows a single row with the value 15, representing the count of distinct countries.

Result Grid
COUNT(DISTINCT c.Country)
15

Below the results pane, the 'Output' section shows the execution log:

#	Time	Action	Message
1	11:42:30	SELECT DISTINCT c.Country FROM Company c INNER JOIN Transaction t ON c.id=t.company_id ...	15 row(s) returned
2	11:49:56	SELECT COUNT(DISTINCT c.Country) FROM Company c INNER JOIN Transaction t ON c.id=t.comp...	1 row(s) returned
3	11:50:17	SELECT COUNT(DISTINCT c.Country) FROM Company c INNER JOIN Transaction t ON c.id=t.comp...	1 row(s) returned

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SPRINT 2

NIVELL 1 – ex. 2 – c

Utilitzant JOIN realitzaràs les següents consultes:

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

The screenshot shows a SQL IDE window titled "sprint-2-entrega". The query editor contains the following SQL code:

```
42  
43 • SELECT ROUND(AVG(t.amount),2) AS mitjana, c.company_name, SUM(t.amount) AS suma_vendes, COUNT(t.id) AS num_transaccions  
44 FROM Transaction t  
45 INNER JOIN Company c ON c.id=t.company_id  
46 WHERE DECLINED = 0  
47 GROUP BY t.company_id  
48 ORDER BY mitjana DESC  
49 LIMIT 1;  
50
```

Below the query editor, the "Result Grid" shows the following data:

mitjana	company_name	suma_vendes	num_transaccions
481.86	Eget Ipsum Ltd	481.86	1

At the bottom, the "Output" section shows a list of actions and their results:

#	Time	Action	Message
✓ 1	11:42:30	SELECT DISTINCT c.Country FROM Company c INNER JOIN Transaction t ON c.id=t.company_id ...	15 row(s) returned
✓ 2	11:49:56	SELECT COUNT(DISTINCT c.Country) FROM Company c INNER JOIN Transaction t ON c.id=t.comp...	1 row(s) returned
✓ 3	11:50:17	SELECT COUNT(DISTINCT c.Country) FROM Company c INNER JOIN Transaction t ON c.id=t.comp...	1 row(s) returned
✓ 4	11:52:07	SELECT ROUND(AVG(t.amount),2) AS mitjana, c.company_name, SUM(t.amount) AS suma_vendes, ...	1 row(s) returned
✓ 5	11:52:52	SELECT ROUND(AVG(t.amount),2) AS mitjana, c.company_name, SUM(t.amount) AS suma_vendes, ...	1 row(s) returned

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Bàrbara Partegàs

SPRINT 2

NIVELL 1 - ex. 3 - a

Utilitzant només subconsultes (sense utilitzar JOIN):

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

sprint-2-entrega* x

Limit to 1000 rows

```
57
58 • SELECT t.*
59 FROM Transaction t
60 WHERE company_id IN (SELECT id FROM company c WHERE country = 'Germany')
61 ORDER BY timestamp;
62
```

Result Grid

	id	credit_card_id	company_id	user_id	lat	longitude	timestamp	amount	declined
▶	E2C94327-62EE-9EF1-4D62-B861858AC425	CcU-4317	b-2302	224	40.8484	112.76	2021-03-17 02:55:49	36.83	0
	68B61B4B-EBD8-84AD-EED7-882D166A7A1E	CcU-4849	b-2302	184	34.7271	-178.418	2021-03-23 03:02:51	108.51	0
	59BC588F-9D74-8B8A-A11D-D604A8C086F2	CcU-4352	b-2302	222	61.4687	-29.7214	2021-03-25 21:48:18	89.22	0
	BF0BA288-355D-412E-089C-B152516DC965	CcU-4219	b-2302	171	67.3245	114.092	2021-03-26 13:46:28	485.31	0
	E73908A2-5945-D5E9-AEC7-2C460A488864	CcU-4275	b-2302	227	46.5742	-116.518	2021-04-10 15:09:40	63.08	0
	162C7E78-2B6B-7971-A1E4-D2124E732451	CcU-4527	b-2302	210	-69.1381	58.0017	2021-04-11 05:59:18	231.26	0
	A14C4361-9AC9-A3E7-7B1B-73BA6A3D23D7	CcU-4387	b-2302	219	35.2215	-66.9265	2021-04-11 11:51:48	125.91	0
	BEBBC256-9696-1AAB-2C73-D2F3775301A9	CcU-4219	b-2302	159	-34.1831	-7.04756	2021-04-12 15:28:54	346.46	0
	EAE19DC1-C847-6D79-673D-00E7696AC336	CcU-4324	b-2302	224	6.39674	-6.7753	2021-04-15 02:55:22	69.98	0
	AB069F53-965E-A2A8-CE06-CA8C4FD92501	CcU-2959	b-2234	275	1.64819	-158.007	2021-04-15 13:37:18	60.99	0

Transaction 6 x

Output

Action Output

#	Time	Action	Message
✓ 1	11:42:30	SELECT DISTINCT c.Country FROM Company c INNER JOIN Transaction t ON c.id=t.company_id ...	15 row(s) returned
✓ 2	11:49:56	SELECT COUNT(DISTINCT c.Country) FROM Company c INNER JOIN Transaction t ON c.id=t.comp...	1 row(s) returned
✓ 3	11:50:17	SELECT COUNT(DISTINCT c.Country) FROM Company c INNER JOIN Transaction t ON c.id=t.comp...	1 row(s) returned
✓ 4	11:52:07	SELECT ROUND(AVG(t.amount),2) AS mitjana, c.company_name, SUM(t.amount) AS suma_vendes, ...	1 row(s) returned
✓ 5	11:52:52	SELECT ROUND(AVG(t.amount),2) AS mitjana, c.company_name, SUM(t.amount) AS suma_vendes, ...	1 row(s) returned
✓ 6	11:54:16	SELECT t.* FROM Transaction t WHERE company_id IN (SELECT id FROM company c WHERE co...	118 row(s) returned

NIVELL 1 – ex. 3– b

Utilitzant només subconsultes (sense utilitzar JOIN):

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

The screenshot shows a SQL IDE interface with a query editor and a results pane. The query editor contains the following SQL code:

```
67
68 • SELECT company_id, ROUND(AVG(amount),2) AS mitjana
69 FROM Transaction
70 WHERE amount > (
71     SELECT AVG(amount)
72     FROM Transaction
73     WHERE declined=0)
74 GROUP BY company_id
75 ORDER BY mitjana DESC;
```

The results pane displays a table with two columns: `company_id` and `mitjana`. The table contains 15 rows of data, sorted by `mitjana` in descending order.

company_id	mitjana
b-2382	477.10
b-2398	473.08
b-2310	468.35
b-2306	466.55
b-2410	461.21
b-2230	460.38
b-2378	448.44
b-2394	447.11
b-2454	443.64
b-2458	442.52
b-2426	442.32
b-2522	442.28
b-2518	439.91

The bottom pane shows the 'Action Output' with a table of execution logs:

#	Time	Action	Message
2	11:49:56	SELECT COUNT(DISTINCT c.Country) FROM Company c INNER JOIN Transaction t ON c.id=t.co...	1 row(s) returned
3	11:50:17	SELECT COUNT(DISTINCT c.Country) FROM Company c INNER JOIN Transaction t ON c.id=t.co...	1 row(s) returned
4	11:52:07	SELECT ROUND(AVG(t.amount),2) AS mitjana, c.company_name, SUM(t.amount) AS suma_vendes...	1 row(s) returned
5	11:52:52	SELECT ROUND(AVG(t.amount),2) AS mitjana, c.company_name, SUM(t.amount) AS suma_vendes...	1 row(s) returned
6	11:54:16	SELECT t.* FROM Transaction t WHERE company_id IN (SELECT id FROM company c WHERE c...	118 row(s) returned
7	11:56:34	SELECT t.* FROM Transaction t WHERE company_id IN (SELECT id FROM company c WHERE c...	118 row(s) returned
8	11:56:36	SELECT company_id, ROUND(AVG(amount),2) AS mitjana FROM Transaction WHERE amount > (68 row(s) returned

NIVELL 1 – ex. 3- c

Utilitzant només subconsultes (sense utilitzar JOIN):

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

The screenshot shows a SQL IDE window titled 'sprint-2-entrega*'. The query editor contains the following SQL code:

```
85
86
87 • SELECT id
88   FROM company
89  WHERE id NOT IN (
90      SELECT company_id
91      FROM transaction
92  );
```

Below the query editor, the 'Result Grid' shows a single row with the value 'NULL' under the 'id' column.

Below the result grid, there is a section titled 'company 12' with an 'Apply' button. Underneath, there is an 'Output' section with a dropdown menu set to 'Action Output'. The output table has columns: #, Time, Action, and Message.

#	Time	Action	Message
3	11:50:17	SELECT COUNT(DISTINCT c.Country) FROM Company c INNER JOIN Transaction t ON c.id=t.co...	1 row(s) returned
4	11:52:07	SELECT ROUND(AVG(t.amount),2) AS mitjana, c.company_name, SUM(t.amount) AS suma_vendes...	1 row(s) returned
5	11:52:52	SELECT ROUND(AVG(t.amount),2) AS mitjana, c.company_name, SUM(t.amount) AS suma_vendes...	1 row(s) returned
6	11:54:16	SELECT t.* FROM Transaction t WHERE company_id IN (SELECT id FROM company c WHERE c...	118 row(s) returned
7	11:56:34	SELECT t.* FROM Transaction t WHERE company_id IN (SELECT id FROM company c WHERE c...	118 row(s) returned
8	11:56:36	SELECT company_id, ROUND(AVG(amount),2) AS mitjana FROM Transaction WHERE amount > (...	68 row(s) returned
9	11:59:46	SELECT id FROM company WHERE id NOT IN (SELECT company_id FROM transaction) LIM...	0 row(s) returned
10	12:00:26	SELECT company_id, amount FROM transaction T WHERE amount = (SELECT MAX(amount) FRO...	1 row(s) returned
11	12:00:40	SELECT id FROM company WHERE id NOT IN (SELECT company_id FROM transaction) LIM...	0 row(s) returned
12	12:01:03	SELECT id FROM company WHERE id NOT IN (SELECT company_id FROM transaction) LIM...	0 row(s) returned

Dona "null", per comprovar-ho, compto empreses a una taula i a l'altra. I comprovo que sí, són 100 empreses a ambdues taules.

- `SELECT COUNT(DISTINCT id)`
`FROM company c;`
- `SELECT COUNT(DISTINCT company_id)`
`FROM transaction t;`

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SPRINT 2

NIVELL 2 – 1

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.

sprint-2-entrega* x

Limit to 1000 rows

```
120
121
122 • SELECT DATE(timestamp) AS data_transaccio, SUM(amount) AS total_vendes
123 FROM transaction
124 WHERE declined = 0
125 GROUP BY DATE(timestamp)
126 ORDER BY total_vendes DESC
127 LIMIT 5;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: | Fetch rows:

	data_transaccio	total_vendes
▶	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

Result 22 x

Output

Action Output

#	Time	Action	Message
✖	18 12:13:02	SELECT c.id, c.company_name, t.declined FROM Company c JOIN Transaction t ON t.company_id...	Error Code: 1064. You have an error in your SQL syntax; check t
✖	19 12:14:14	SELECT c.id, c.company_name, t.declined FROM Company c JOIN Transaction t ON t.company_id...	Error Code: 1064. You have an error in your SQL syntax; check t
✔	20 12:16:29	SELECT c.id, c.company_name, t.declined FROM Company c JOIN Transaction t ON t.company_id...	87 row(s) returned
✔	21 12:16:51	SELECT c.id, c.company_name, t.declined FROM Company c JOIN Transaction t ON t.company_id...	100 row(s) returned
✔	22 12:17:11	SELECT c.id, c.company_name, t.declined FROM Company c JOIN Transaction t ON t.company_id...	100 row(s) returned
✔	23 12:18:27	SELECT c.id, c.company_name, t.declined FROM Company c JOIN Transaction t ON t.company_id...	87 row(s) returned
✖	24 12:19:49	SELECT id FROM company WHERE id NOT IN (SELECT company_id FROM transaction AND ...	Error Code: 1064. You have an error in your SQL syntax; check t
✖	25 12:20:17	SELECT id FROM company WHERE id NOT IN (SELECT company_id FROM transaction) AN...	Error Code: 1064. You have an error in your SQL syntax; check t
✔	26 12:22:44	SELECT DATE(timestamp) AS data_transaccio, SUM(amount) AS total_vendes FROM transaction ...	5 row(s) returned

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Bàrbara Partegàs

SPRINT 2

NIVELL 2 – 2

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

The screenshot shows a SQL IDE interface with a query editor and a results pane. The query editor contains the following SQL code:

```
135  
136  
137  
138 • SELECT c.country, ROUND(AVG(t.amount),2) AS mitjana_vendes  
139 FROM transaction t  
140 JOIN company c ON t.company_id = c.id  
141 WHERE t.declined = 0  
142 GROUP BY c.country  
143 ORDER BY mitjana_vendes DESC;  
144
```

The results pane displays a table with two columns: 'country' and 'mitjana_vendes'. The table contains 15 rows of data, ordered from highest to lowest average sales.

country	mitjana_vendes
United States	287.53
Ireland	285.83
Sweden	276.67
United Kingdom	271.77
Canada	261.94
Belgium	255.22
Norway	251.11
Italy	243.34
Germany	242.24
Netherlands	240.94
China	222.24
Australia	177.33
France	169.41
New Zealand	167.06
Spain	26.22

The bottom pane shows the 'Action Output' table, which records the execution of the query.

#	Time	Action	Message
✓ 26	12:22:44	SELECT DATE(timestamp) AS data_transaccio, SUM(amount) AS total_vendes FROM transaction ...	5 row(s) returned
✓ 27	12:24:55	SELECT c.country, ROUND(AVG(t.amount),2) AS mitjana_vendes FROM transaction t JOIN compa...	15 row(s) returned

NIVELL 2 – 3 – a

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.

sprint-2-entrega*

Limit to 1000 rows

150

151 •

152

153

154

155

156

157

158

159

160

```

SELECT t.*
FROM transaction t
JOIN company c ON t.company_id = c.id
WHERE c.country = (
    SELECT country
    FROM company
    WHERE company_name = 'Non Institute'
    LIMIT 1
);

```

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

	id	credit_card_id	company_id	user_id	lat	longitude	timestamp	amount	declined
▶	2B928E1C-EC14-A760-0A75-871477649D6A	CcU-2980	b-2246	275	-41.0496	161.685	2021-08-10 08:14:49	383.73	0
	ACD2011A-A2B1-C365-41E1-2AB00C65147A	CcU-2980	b-2246	275	-54.4792	-82.7974	2022-03-05 20:41:20	60.07	1
	4334349E-CEB0-3D68-A4D4-FEB7718A1ACE	CcU-3092	b-2310	275	-20.4859	150.87	2021-05-03 22:37:23	458.74	0
	BC2B9A38-77B4-28CD-1FE8-14DED863E773	CcU-3092	b-2310	275	-78.0295	18.5295	2021-10-18 07:27:35	477.95	1
	147983D2-87BA-C7B8-4CE3-8D7C2DE85ABB	CcU-2994	b-2326	133	66.2672	172.399	2021-08-09 00:58:07	309.45	0
	152598C2-029D-D684-4B66-91EDF393EBFF	CcU-2994	b-2326	126	-67.0189	-141.672	2021-07-05 03:10:00	395.43	0
	1B636B58-A2E8-7C69-D9C9-C54535DAFD3B	CcU-2994	b-2326	131	70.2543	-13.1336	2021-07-06 08:48:46	195.06	0
	20418DE5-B804-8E98-8D7A-A95C1BFD8F5C	CcU-2994	b-2326	126	-79.1145	1.51481	2022-01-03 15:59:29	479.52	0
	239B8576-6C0E-137A-C2F6-3180A188A2D3	CcU-2994	b-2326	126	23.6174	137.222	2021-08-26 06:04:05	43.90	0
	267C4A86-7BA7-1C5E-0718-2824983C87DD	CcU-2994	b-2326	126	-17.5259	104.915	2021-10-01 21:08:53	122.63	0
	3142C93E-83B7-49E4-EE2D-29CA834B198D	CcU-2994	b-2326	126	-67.8476	-119.978	2021-04-06 17:24:44	91.59	0
	3578688E-7B1D-8887-3BC7-20B8673AA31E	CcU-2994	b-2326	126	87.0665	-22.7339	2021-07-26 22:59:24	303.60	0
	360C7814-F7AF-B43A-0946-AB38D2683C86	CcU-2994	b-2326	116	-7.93005	-79.0733	2021-08-21 10:19:58	494.82	0
	391E1CFD-D653-E45B-A729-F2EB93247B58	CcU-2994	b-2326	118	60.5512	103.904	2021-10-09 00:50:38	271.27	0
	3C4D7C2A-A402-B941-625A-D64CA53526E8	CcU-2994	b-2326	117	23.1627	-10.381	2021-04-25 19:11:52	441.27	0
	3ED634C2-01CA-D6E9-2DBD-24B53A7912F7	CcU-4219	b-2326	137	69.0549	96.5033	2021-03-29 11:38:38	478.54	0
	3FEC4131-9BED-2EA6-1776-82674C80DD8B	CcU-2994	b-2326	126	-7.28469	179.063	2021-07-25 04:59:17	393.42	0

Result 25

Output

Action Output

#	Time	Action	Message
✓ 28	12:27:00	SELECT t.* FROM transaction t JOIN company c ON t.company_id = c.id WHERE c.country = (...	100 row(s) returned
✓ 29	12:27:25	SELECT t.* FROM transaction t JOIN company c ON t.company_id = c.id WHERE c.country = (...	100 row(s) returned

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Bàrbara Partegàs

SPRINT 2

NIVELL 2 – 3 – b

- Mostra el llistat applicant solament subconsultes.

sprint-2-entrega* x

Limit to 1000 rows

```
165
166 • SELECT t.*
167 FROM transaction t
168 WHERE company_id IN (
169     SELECT id
170     FROM company
171     WHERE country = (
172         SELECT country
173         FROM company
174         WHERE company_name = 'Non Institute'
175         LIMIT 1
176     ));
```

Result Grid

	id	credit_card_id	company_id	user_id	lat	longitude	timestamp	amount	declined
▶	2B928E1C-EC14-A760-0A75-871477649D6A	CcU-2980	b-2246	275	-41.0496	161.685	2021-08-10 08:14:49	383.73	0
	ACD2011A-A2B1-C365-41E1-2AB00C65147A	CcU-2980	b-2246	275	-54.4792	-82.7974	2022-03-05 20:41:20	60.07	1
	4334349E-CEB0-3D68-A4D4-FEB7718A1ACE	CcU-3092	b-2310	275	-20.4859	150.87	2021-05-03 22:37:23	458.74	0
	BC2B9A38-77B4-28CD-1FE8-14DED863E773	CcU-3092	b-2310	275	-78.0295	18.5295	2021-10-18 07:27:35	477.95	1
	1479B3D2-87BA-C7BB-4CE3-8D7C2DE85AB8	CcU-2994	b-2326	133	66.2672	172.399	2021-08-09 00:58:07	309.45	0
	152598C2-029D-D684-4B66-91EDF393EBFF	CcU-2994	b-2326	126	-67.0189	-141.672	2021-07-05 03:10:00	395.43	0
	1B636B58-A2E8-7C69-D9C9-C54535DAFD3B	CcU-2994	b-2326	131	70.2543	-13.1336	2021-07-06 08:48:46	195.06	0
	20418DE5-B804-BE9B-BD7A-A95C1BFDBF5C	CcU-2994	b-2326	126	-79.1145	1.51481	2022-01-03 15:59:29	479.52	0
	239B8576-6C0E-137A-C2F6-3180A188A2D3	CcU-2994	b-2326	126	23.6174	137.222	2021-08-26 06:04:05	43.90	0
	267C4A86-7BA7-1C5E-0718-2824983C87DD	CcU-2994	b-2326	126	-17.5259	104.915	2021-10-01 21:08:53	122.63	0
	3142C93E-B3B7-49E4-EE2D-29CA834B198D	CcU-2994	b-2326	126	-67.8476	-119.978	2021-04-06 17:24:44	91.59	0
	3578688E-7B1D-B887-3BC7-20B8673AA31E	CcU-2994	b-2326	126	87.0665	-22.7339	2021-07-26 22:59:24	303.60	0
	360C7814-F7AF-B43A-0946-AB38D2683C86	CcU-2994	b-2326	116	-7.93005	-79.0733	2021-08-21 10:19:58	494.82	0
	391E1CFD-D653-E45B-A729-F2EB93247B58	CcU-2994	b-2326	118	60.5512	103.904	2021-10-09 00:50:38	271.27	0
	3C4D7C2A-A402-B941-625A-D64CA53526E8	CcU-2994	b-2326	117	23.1627	-10.381	2021-04-25 19:11:52	441.27	0

transaction 26 x

Output

Action Output

#	Time	Action	Message
✓ 29	12:27:25	SELECT t.* FROM transaction t JOIN company c ON t.company_id = c.id WHERE c.country = (...	100 row(s) returned
✓ 30	12:30:22	SELECT t.* FROM transaction t WHERE company_id IN (SELECT id FROM company WHE...	100 row(s) returned

Bootcamp Data Analytics

Bàrbara Partegàs

SPRINT 2

NIVELL 3 – 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. Ordena els resultats de major a menor quantitat.

sprint-2-entrega* x

Limit to 1000 rows

```
183
184 • SELECT c.company_name, c.phone, c.country, DATE(t.timestamp) AS data_transaccio, t.amount
185 FROM transaction t
186 JOIN company c ON t.company_id = c.id
187 WHERE t.amount BETWEEN 100 AND 200
188 AND DATE(t.timestamp) IN ('2021-04-29', '2021-07-20', '2022-03-13')
189 AND t.declined = 0
190 ORDER BY t.amount DESC;
191
192
193
```

Result Grid

	company_name	phone	country	data_transaccio	amount
▶	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
	Enim Condimentum Ltd	09 55 51 66 25	United Kingdom	2021-04-29	149.89
	Lorem Eu Incorporated	01 83 66 62 07	Canada	2021-07-20	133.39
	Nunc Interdum Incorporated	05 18 15 48 13	Germany	2021-04-29	111.51

Result 27 x

Output

Action Output

#	Time	Action	Message
✓	23 12:18:27	SELECT c.id, c.company_name, t.declined FROM Company c JOIN Transaction t ON t.company_id...	87 row(s) returned
✗	24 12:19:49	SELECT id FROM company WHERE id NOT IN (SELECT company_id FROM transaction AND ...	Error Code: 1064. You have an error in your SQL syntax; check
✗	25 12:20:17	SELECT id FROM company WHERE id NOT IN (SELECT company_id FROM transaction) AN...	Error Code: 1064. You have an error in your SQL syntax; check
✓	26 12:22:44	SELECT DATE(timestamp) AS data_transaccio, SUM(amount) AS total_vendes FROM transaction ...	5 row(s) returned
✓	27 12:24:55	SELECT c.country, ROUND(AVG(t.amount),2) AS mitjana_vendes FROM transaction t JOIN compa...	15 row(s) returned
✓	28 12:27:00	SELECT t.* FROM transaction t JOIN company c ON t.company_id = c.id WHERE c.country = (...	100 row(s) returned
✓	29 12:27:25	SELECT t.* FROM transaction t JOIN company c ON t.company_id = c.id WHERE c.country = (...	100 row(s) returned
✓	30 12:30:22	SELECT t.* FROM transaction t WHERE company_id IN (SELECT id FROM company WHE...	100 row(s) returned
✓	31 12:32:00	SELECT c.company_name, c.phone, c.country, DATE(t.timestamp) AS data_transaccio, t.amount F...	5 row(s) returned

NIVELL 3 – 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 especifiquis si tenen més de 4 transaccions o menys.

```
sprint-2-entrega* x
Limit to 1000 rows
SELECT c.company_name, COUNT(t.id) AS num_transaccions,
CASE
    WHEN COUNT(t.id) > 4 THEN 'Més de 4'
    ELSE '4 o menys'
END AS classificacio
FROM company c
LEFT JOIN transaction t ON c.id = t.company_id
GROUP BY c.company_name
ORDER BY num_transaccions DESC;
```

company_name	num_transaccions	classificacio
Nunc Interdum Incorporated	105	Més de 4
Ut Semper Foundation	59	Més de 4
Enim Condimentum Ltd	57	Més de 4
Arcu LLP	56	Més de 4
Lorem Eu Incorporated	54	Més de 4
Malesuada PC	52	Més de 4
Non Institute	30	Més de 4
Fusce Corp.	2	4 o menys
Convallis In Incorporated	2	4 o menys
Ante Iaculis Nec Foundation	2	4 o menys
Donec Ltd	2	4 o menys
Sed Nunc Ltd	2	4 o menys
Amet Nulla Donec Corporation	2	4 o menys
Nascetur Ridiculus Mus Inc.	2	4 o menys
Vestibulum Lorem PC	2	4 o menys
Gravida Sagittis LLP	2	4 o menys

#	Time	Action	Message
32	12:33:10	SELECT c.company_name, COUNT(t.id) AS num_transaccions, CASE WHEN COUNT(t.id) ...	100 row(s) returned
33	12:33:24	SELECT c.company_name, COUNT(t.id) AS num_transaccions, CASE WHEN COUNT(t.id) ...	100 row(s) returned