

Nivell 1- Exercici 2

Llistat dels països que estan fent compres.

```
1 •  SELECT DISTINCT c.country
2   FROM company AS c
3   INNER JOIN transaction AS t ON c.id = t.company_id
4   WHERE t.declined != 1;
5
6
```

100% 1:6

Result Grid Filter Rows: Search Export Result Grid Form Editor Field Types

country
Germany
Australia
United States
New Zealand
Norway
United Kingdom
Italy
Belgium
Sweden
Ireland
China

Result 15

Action Output

Time	Action	Response	Duration / Fetch Time
1	12:48:26	SELECT DISTINCT c.country FROM company AS c INNER JOIN transaction AS t ON c.id = t.company_id WHERE t.d... 15 row(s) returned	0.0036 sec / 0.00001...

Des de quants països es realitzen les compres.

```
1
2 -- Des de quants països es realitzen les compres.
3 •  SELECT COUNT(DISTINCT c.country) AS `cantidad de paises que realispaisos es realitzen les compres`
4   FROM company AS c
5   INNER JOIN transaction AS t ON c.id = t.company_id
6   WHERE t.declined != 1;
```

100% 1:1

Result Grid Filter Rows: Search Export Result Grid Form Editor Field Types

cantidad de paises que realispaisos es realitzen les compres
15

Result 16

Action Output

Time	Action	Response	Duration / Fetch Time
1	12:48:26	SELECT DISTINCT c.country FROM company AS c INNER JOIN transaction AS t ON c.id = t.company_id WHERE t.d... 15 row(s) returned	0.0036 sec / 0.00001...
2	12:49:02	SELECT COUNT(DISTINCT c.country) AS `cantidad de paises que realispaisos es realitzen les compres` FROM co... 1 row(s) returned	0.010 sec / 0.000015...

Identifica la companyia amb la mitjana més gran de vendes.

```

1 •  SELECT c.company_name, avg_transactions.avg_amount
2   FROM company AS c
3   Ⓜ INNER JOIN (
4       SELECT company_id, AVG(amount) AS avg_amount
5         FROM transaction AS t
6        GROUP BY company_id
7   ) AS avg_transactions
8     ON c.id = avg_transactions.company_id
9   ORDER BY avg_transactions.avg_amount DESC
10 • LIMIT 1;SELECT COUNT(DISTINCT c.country) AS amount_of_countries
11   FROM company AS c
12   INNER JOIN transaction AS t ON c.id = t.company_id

```

Result Grid | Filter Rows: Search | Export:

amount_of_countries
15

Result 8 | Result 9

Action Output

	Time	Action	Response
✓ 1	12:35:14	SELECT c.company_name, avg_transactions.avg_amount FROM company AS c INNER JOIN (SELECT company_i... 1 row(s) returned	
✓ 2	12:35:14	SELECT COUNT(DISTINCT c.country) AS amount_of_countries FROM company AS c INNER JOIN transaction AS t... 1 row(s) returned	

Exercici 3 Utilitzant només subconsultes (sense utilitzar JOIN):

Mostra totes les transaccions realitzades per empreses d'Alemanya.

```

1 •  SELECT *,(SELECT country FROM company WHERE company.id = transaction.company_id AND company.country = 'Germany') AS 'Country'
2   FROM transaction
3   Ⓜ WHERE company_id IN (
4       SELECT id
5         FROM company
6        WHERE country = 'Germany'
7   );

```

Result Grid | Filter Rows: Search | Export:

id	credit_card...	company_id	user_id	lat	longitude	timestamp	amount	declined	Country
0DD2E608-5C9E-01B3-4999-B99F43AD735A	CcU-2959	b-2234	275	9.68811	130.282	2021-04-17 05:30:17	252.47	1	Germany
AB069F53-865E-A2A8-CE06-CABC4FD82501	CcU-2959	b-2234	275	1.64819	-158.007	2021-04-15 13:37:18	60.99	0	Germany
0466A42E-47CF-8D24-FD01-C0B8689713128	CdU-4219	b-2302	170	-43.9695	-117.525	2021-07-26 07:29:18	49.53	0	Germany
0A478ED9-0C13-19E2-F87B-D35639248539	CdU-4359	b-2302	221	-56.4901	114.801	2022-02-26 20:33:54	430.49	0	Germany
122DC333-E19F-D629-DDC8-9C54CF1EBB9A	CdU-4366	b-2302	221	29.6372	-166.173	2021-06-09 06:04:14	172.01	0	Germany
135267BA-2E7D-957C-C42C-6450A2B3ED54	CdU-4520	b-2302	210	20.6724	14.9732	2021-12-29 20:38:23	17.97	0	Germany
14CAE5B5-8FB1-3EA4-4C85-0E4A167534F4	CdU-4849	b-2302	189	-53.6205	93.0533	2021-12-31 00:29:42	388.04	0	Germany
158A3ACB-541C-DBCC-65BD-8373C67BF1C	CdU-4849	b-2302	183	42.5424	-170.347	2022-03-08 05:02:19	240.29	0	Germany
162C7E7B-2B6B-7971-A1E4-D2124E732451	CcU-4527	b-2302	210	-69.1381	58.0017	2021-04-11 05:59:18	231.26	0	Germany
1717FD6B-ADAD-70B2-A748-912BE892CC	CcU-4219	b-2302	172	69.4892	-138.411	2021-12-29 16:18:54	249.91	0	Germany
1753A398-9FC1-52E6-5C39-A1FFF97B0D3A	CcU-4345	b-2302	222	57.9422	-114.729	2021-08-17 05:32:08	497.84	0	Germany

Result 10 | Read Only

Action Output

	Time	Action	Response	Duration / Fetch Time
✓ 1	12:36:33	SELECT *,(SELECT country FROM company WHERE company.id = transaction.company_id AND company.country = '... 118 row(s) returned		0.012 sec / 0.000053...

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

```

1 •  SELECT *
2   FROM company
3   WHERE id IN (
4     SELECT company_id
5       FROM transaction
6      WHERE amount > (
7        SELECT AVG(amount)
8          FROM transaction
9      )
10 )
11

```

Result Grid

id	company_name	phone	email	country	website
b-2230	Fusce Corp.	08 14 97 58 85	risus@protonmail.edu	United States	https://pinterest.com/sub/cars
b-2238	Ante Iaculis Nec Foundation	08 23 04 99 53	sed.dicitum.proin@outlook.ca	New Zealand	https://netflix.com/settings
b-2242	Donec Ltd	01 25 51 37 37	at.iaculis@hotmail.co.uk	Norway	https://nytimes.com/user/110
b-2246	Sed Nunc Ltd	02 62 64 73 48	nibh@yahoo.org	United Kingdom	https://cnn.com/one
b-2254	Nascetur Ridiculus Mus Inc.	06 26 87 61 84	suspendisse.dui@icloud.net	United States	https://ebay.com/sub
b-2258	Vestibulum Lorem PC	02 02 87 33 40	aenean.massa.integer@aol.net	Belgium	https://pinterest.com/sub/cars
b-2262	Gravida Sagittis LLP	03 81 28 33 97	turpis.vitae@google.ca	Sweden	https://naver.com/site
b-2266	Mus Aenean Eget Foundation	06 25 15 52 43	mi.duis@hotmail.net	Sweden	https://instagram.com/group/9
b-2270	Dis Parturient Institute	05 36 29 78 74	purus@protonmail.org	Ireland	https://google.com/one
b-2274	Sed LLC	01 63 16 26 52	at@outlook.com	Belgium	https://reddit.com/fr
b-2278	Arcu I.I.P	06 46 04 41 45	idui@aol.ca	Norway	https://yahoo.com/sub

Action Output

Time	Action	Response	Duration / Fetch Time
12:36:33	SELECT *,(SELECT country FROM company WHERE company.id = transaction.company_id AND company.country = ... 118 row(s) returned)	0.012 sec / 0.00	
12:42:01	SELECT * FROM company WHERE id IN (SELECT company_id FROM transaction WHERE amount > (SELECT... 70 row(s) returned)	0.0097 sec / 0.00	

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

```

1 •  SELECT *
2   FROM company
3   WHERE id NOT IN (
4     SELECT company_id
5       FROM transaction
6   );

```

Result Grid

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

Action Output

Time	Action	Response	Duration / Fetch Time
12:44:14	SELECT * FROM company WHERE id NOT IN (SELECT company_id FROM transaction) LIMIT 0, 1000	0 row(s) returned	0.010 sec / 0.000026...

Nivell - 2 - Exercici 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.

```
1 • SELECT timestamp, SUM(amount) AS total_vendas
2   FROM transaction
3   WHERE declined !=1
4   GROUP BY timestamp
5   ORDER BY total_vendas DESC
6   LIMIT 5;
7
8
```

Result Grid | Filter Rows: Search Export: Fetch rows: Result Grid Form Editor Field Types

timestamp	total_vendas
2021-06-21 11:23:01	499.23
2021-08-17 05:32:08	497.84
2021-08-21 10:19:58	494.82
2021-08-28 20:01:52	494.17
2022-01-31 12:01:11	492.42

Result 18 | Read Only

Action Output | Time Action Response Duration / Fetch Time

1	12:55:03	SELECT timestamp, SUM(amount) AS total_vendas FROM transaction WHERE declined !=1 GROUP BY timestamp O...	5 row(s) returned	0.0042 sec / 0.00001...
---	----------	---	-------------------	-------------------------

Exercici 2

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

```
1 • SELECT c.country, AVG(t.amount) AS average_sales
2   FROM company c
3   JOIN transaction t
4   ON c.id = t.company_id
5   GROUP BY c.country
6   ORDER BY average_sales DESC
```

Result Grid | Filter Rows: Search Export: Result Grid Form Editor Field Types

country	average_sales
United States	309.179412
Ireland	277.308387
United Kingdom	270.731700
Canada	269.647869
Sweden	260.615063
Norway	254.216324
Netherlands	253.017778
Germany	244.203220
Australia	232.052500
Belgium	228.147692
China	227.556667

Result 19 | Read Only

Action Output | Time Action Response Duration / Fetch Time

1	13:00:43	SELECT c.country, AVG(t.amount) AS average_sales FROM company c JOIN transaction t ON c.id = t.company_id G...	15 row(s) returned	0.011 sec / 0.000018...
---	----------	--	--------------------	-------------------------

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.

```

1 • SELECT t.*
2   FROM transaction t
3   JOIN (
4     SELECT id
5       FROM company
6      WHERE country IN (
7        SELECT country
8          FROM company
9         WHERE company_name = "Non Institute"
10    )
11  ) subconsulta
12    ON t.company_id = subconsulta.id;

```

Result Grid Filter Rows: Search Export:

id	credit_card...	company_id	user_id	lat	longitude	timestamp	amount	declined
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-B7BA-C7BB-4CE3-8D7C2DE85ABB	CcU-2994	b-2326	133	66.2672	172.399	2021-08-09 00:58:07	309.45	0
152598C8-2029D-D684-4B66-91EDF393EBFF	CcU-2994	b-2326	126	-67.0188	-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
2041BDE5-BB04-BE9B-BD7A-A95C1BFDBF5C	CcU-2994	b-2326	126	-79.1145	15.15481	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
267CA86-7B47-1C5E-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-R43A-0946-AR38D2683C86	CcU-2994	b-2326	116	-7.93005	-79.0733	2021-08-21 10:19:58	494.82	0

Result 20

Action Output

Time	Action	Response	Duration / Fetch Time
13:01:51	SELECT t.* FROM transaction t JOIN (SELECT id FROM company WHERE country IN (SELECT country FROM company WHERE company_name = "Non Institute")) subconsulta ON t.company_id = subconsulta.id;	100 row(s) returned	0.014 sec / 0.000055...

Mostra el llistat aplicant solament subconsultes.

```

1 • SELECT *
2   FROM transaction
3   WHERE company_id IN (
4     SELECT id
5       FROM company
6      WHERE country IN (
7        SELECT country
8          FROM company
9         WHERE company_name = "Non Institute"
10    )
11  )

```

Result Grid Filter Rows: Search Export/Import:

id	credit_card...	company_id	user_id	lat	longitude	timestamp	amount	declined
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-B7BA-C7BB-4CE3-8D7C2DE85ABB	CcU-2994	b-2326	133	66.2672	172.399	2021-08-09 00:58:07	309.45	0
152598C8-2029D-D684-4B66-91EDF393EBFF	CcU-2994	b-2326	126	-67.0188	-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
2041BDE5-BB04-BE9B-BD7A-A95C1BFDBF5C	CcU-2994	b-2326	126	-79.1145	15.15481	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
267CA86-7B47-1C5E-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-R43A-0946-AR38D2683C86	CcU-2994	b-2326	116	-7.93005	-79.0733	2021-08-21 10:19:58	494.82	0

transaction 21

Action Output

Time	Action	Response	Duration / Fetch Time
13:01:51	SELECT t.* FROM transaction t JOIN (SELECT id FROM company WHERE country IN (SELECT country FROM company WHERE company_name = "Non Institute")) subconsulta ON t.company_id = subconsulta.id;	100 row(s) returned	0.014 sec / 0.000055...
13:02:36	SELECT * FROM transaction WHERE company_id IN (SELECT id FROM company WHERE country IN (SELECT country FROM company WHERE company_name = "Non Institute"))	100 row(s) returned	0.0095 sec / 0.0000...

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.

```
1 • SELECT c.id, c.phone, c.country, t.timestamp, t.amount
2   FROM company c
3     JOIN transaction t ON c.id = t.company_id
4    WHERE t.amount BETWEEN 100 AND 200
5    AND DATE(t.timestamp) IN ('2021-04-29', '2021-06-20', '2022-03-13')
6    ORDER BY t.amount DESC;
7
```

id	phone	country	timestamp	amount
b-2302	05 18 15 48 13	Germany	2022-03-13 13:37:34	164.32
b-2328	09 55 51 66 25	United Kingdom	2021-04-29 06:17:02	149.89
b-2302	05 18 15 48 13	Germany	2021-04-29 02:25:49	111.51

Action Output

Time	Action	Response	Duration / Fetch Time
13:03:25	SELECT c.id, c.phone, c.country, t.timestamp, t.amount FROM company c JOIN transaction t ON c.id = t.company_id WHERE t.amount BETWEEN 100 AND 200 AND DATE(t.timestamp) IN ('2021-04-29', '2021-06-20', '2022-03-13') ORDER BY t.amount DESC;	3 row(s) returned	0.0025 sec / 0.00001...

Exercici 2

La informació sobre la quantitat de transaccions que realitzen les empreses, si tenen més de 4 transaccions o menys.

```
1 • SELECT c.id, c.company_name, COUNT(t.amount) AS cantidad_transacciones,
2   CASE
3     WHEN COUNT(t.amount) > 4 THEN 'Més de 4 transaccions'
4     ELSE '4 transaccions o menys'
5   END AS transaccio_categoria
6   FROM company c
7   LEFT JOIN transaction t
8   ON c.id = t.company_id
9   GROUP BY c.id, c.company_name;
10
```

id	company_name	cantidad_transacciones	transaccio_categoria
b-2230	Fusce Corp.	2	4 transaccions o menys
b-2234	Convallis In Incorporated	2	4 transaccions o menys
b-2238	Ante facilis Nec Foundation	2	4 transaccions o menys
b-2242	Donec Ltd	2	4 transaccions o menys
b-2246	Sed Nunc Ltd	2	4 transaccions o menys
b-2250	Amet Nulla Donec Corporation	2	4 transaccions o menys
b-2254	Nascetur Ridiculus Mus Inc.	2	4 transaccions o menys
b-2258	Vestibulum Lorem PC	2	4 transaccions o menys
b-2262	Gravida Sagittis LLP	2	4 transaccions o menys
b-2266	Mus Aenean Eget Foundation	2	4 transaccions o menys
b-2270	Duis Parturient Institute	2	4 transaccions o menys

Action Output

Time	Action	Response	Duration / Fetch Time
13:06:29	SELECT c.id, c.company_name, COUNT(t.amount) AS cantidad_transacciones, CASE WHEN COUNT(t.a... 100 row(s) returned		0.0093 sec / 0.00005...