

# 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 variables.

### Tabla “company”

- Almacena información sobre las empresas que compran productos y realizan transacciones en la plataforma.
- Primary Key: id. (es id de la empresa)
- Contiene datos como el nombre de la empresa, teléfono, correo electrónico, país y sitio web, los cuales están en formato VARCHAR
- Tiene 100 rows

The screenshot shows a database management interface. At the top, there's a toolbar with options like 'Filter Rows', 'Edit', 'Export/Import', and 'Wrap Cell Content'. Below this is a table with 7 columns: id, company\_name, phone, email, country, and website. The table contains 13 rows of data, with the first row highlighted. Below the table, there's a section labeled 'company 135' with a close button. Underneath that is an 'Output' section showing a table with 4 columns: #, Time, Action, and Message. The first row of the output table shows a successful query execution: 'SELECT \* FROM company LIMIT 0, 1000' returned 100 row(s).

id	company_name	phone	email	country	website
b-2222	Ac Fermentum Incorporated	06 85 56 52 33	donec.porttitor.tellus@yahoo.net	Germany	https://instagram.com/site
b-2226	Magna A Neque Industries	04 14 44 64 62	risus.donec.nibh@icloud.org	Australia	https://whatsapp.com/group/9
b-2230	Fusce Corp.	08 14 97 58 85	risus@protonmail.edu	United States	https://pinterest.com/sub/cars
b-2234	Convallis In Incorporated	06 66 57 29 50	mauris.ut@aol.couk	Germany	https://cnn.com/user/110
b-2238	Ante Iaculis Nec Foundation	08 23 04 99 53	sed.dictum.proin@outlook.ca	New Zealand	https://netflix.com/settings
b-2242	Donec Ltd	01 25 51 37 37	at.iaculis@hotmail.couk	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-2250	Amet Nulla Donec Corporation	07 15 25 14 74	mattis.integer.eu@protonmail.net	Italy	https://netflix.com/sub/cars
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 LLP	06 46 04 41 45	dui@aol.ca	Norway	https://yahoo.com/sub
b-2282	Pretium Neque Corp.	07 77 48 55 28	eleifend.nec.malesuada@proton...	Australia	https://netflix.com/sub
b-2286	Frinnilla LLC	08 29 15 93 57	gravida@protonmail.couk	New Zealand	https://reddit.com/user/110

#	Time	Action	Message
1	13:41:17	SELECT * FROM company LIMIT 0, 1000	100 row(s) returned

### Tabla “transaction”

- Registra las transacciones realizadas por empresas en la plataforma.
- Primary Key: id (es el ID de la transacción)
- Foreign Keys:
  - credit\_card\_id → Referencia id en credit\_card, asociando la transacción con una tarjeta de crédito.

- company\_id → Referencia id en company, vinculando la transacción con la empresa que realizó la compra.
- User\_id → Referencia id en user, relacionando la transacción con un usuario específico
- También la tabla Incluye detalles como el monto de la transacción, ubicación, fecha y si fue rechazada.
- Tiene 587 rows

id	credit_card_id	company_id	user_id	lat	longitude	timestamp	amount	declined
02C6201E-D90A-1859-B4EE-88D2986D3B02	CcU-2938	b-2362	92	81.9185	-12.5276	2021-08-28 23:42:24	466.92	0
0466A42E-47CF-8D24-FD01-C0B689713128	CcU-4219	b-2302	170	-43.9695	-117.525	2021-07-26 07:29:18	49.53	0
063FBA79-99EC-66FB-29F7-25726D1764A5	CcU-2987	b-2250	275	-81.2227	-129.05	2022-01-06 21:25:27	92.61	0
0668296C-CDB9-A883-76BC-2E4C4F8C8AE	CcU-3743	b-2618	265	-34.3593	-100.556	2022-01-26 02:07:14	394.18	0
06CD9AA5-9B42-D684-DDDD-A5E394FEB99	CcU-2959	b-2346	92	33.7381	158.298	2021-10-26 23:00:01	279.93	0
07A46D48-31A3-7E87-65B9-0DA902AD109F	CcU-3225	b-2386	272	38.8342	92.1905	2021-06-28 21:11:42	340.87	1
09DE92CE-6F27-2BB7-13B5-9385B2B3B8E2	CcU-3071	b-2298	275	71.1706	10.5757	2021-05-11 20:40:06	303.05	1
0A476ED9-0C13-1962-F87B-D3563924B539	CcU-4359	b-2302	221	-56.4901	114.801	2022-02-26 20:33:54	430.49	0
08EB80B7-9D66-1707-CE4B-9DC7E71914B5	CcU-3141	b-2338	272	23.3264	-13.6037	2022-03-04 14:54:35	288.81	1
0C7C3A33-9947-3BC1-846D-7BE3D0D17598	CcU-3309	b-2434	272	63.3615	-68.6667	2021-04-10 20:58:41	103.44	1
0CE957A6-CCAA-2B7A-6839-8A4B1B324853	CcU-3435	b-2506	269	-69.3537	-10.26	2022-02-02 07:29:36	428.69	1
0DD2E608-5C9E-D1B3-4999-B99F43AD735A	CcU-2959	b-2234	275	9.68811	130.282	2021-04-17 05:30:17	252.47	1
1017AA59-3D5F-7A4C-1992-D151A8D1FA0A	CcU-3701	b-2618	267	4.27645	-101.554	2021-11-01 01:02:11	447.11	0
1026DA24-8929-31F1-8250-D7BAB05C13D2	CcU-2959	b-2346	92	32.0646	-140.147	2021-12-07 09:30:38	465.31	0
1026DA24-8929-31F1-8250-D7BAB05C13D2	CcU-2959	b-2346	92	32.0646	-140.147	2021-12-07 09:30:38	465.31	0

transaction 137 x

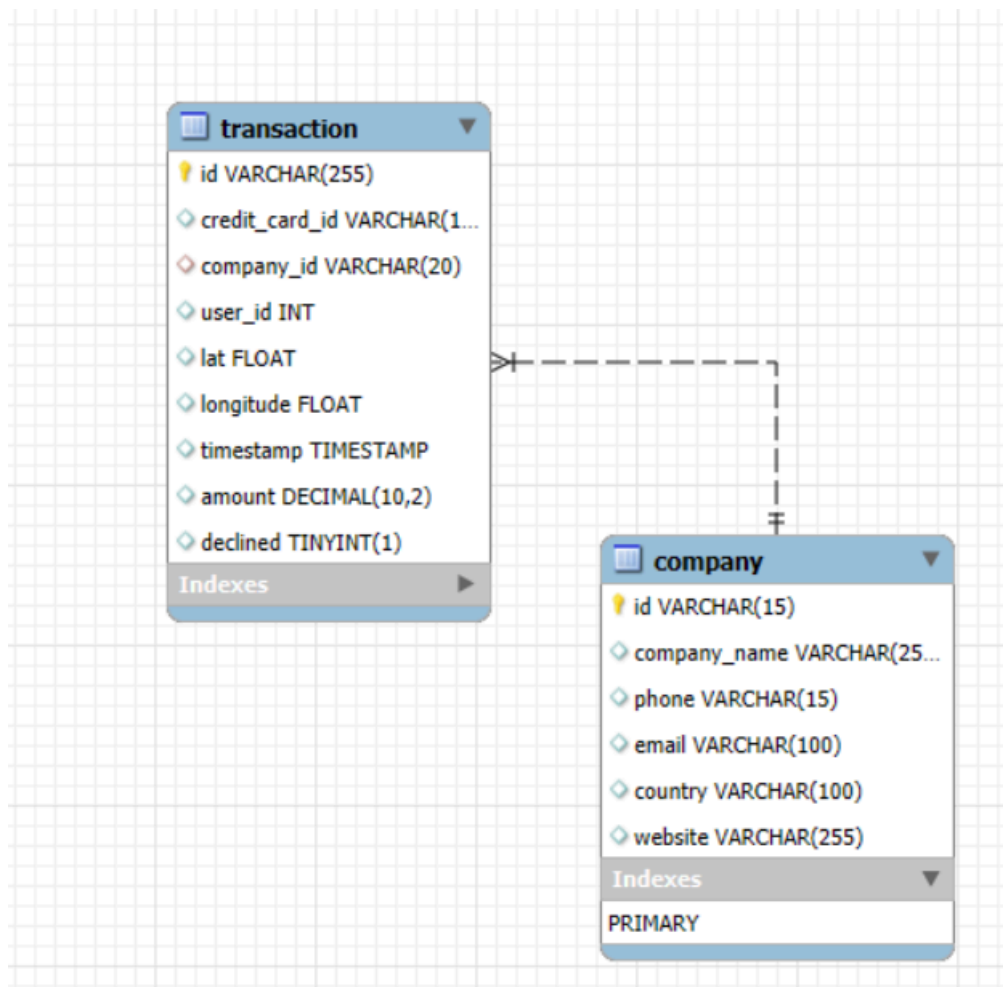
Output

Action Output

#	Time	Action	Message
1	13:42:59	SELECT * FROM transaction LIMIT 0, 1000	587 row(s) returned

## Diagrama

- La relación entre transaction y company es de uno a muchos (1:M)
- company\_id en transaction es foreign key que referencia id en company.
- Una empresa puede tener varias transacciones, pero cada transacción pertenece a una sola empresa.



En todos ejercicios menos esta tomada en cuenta

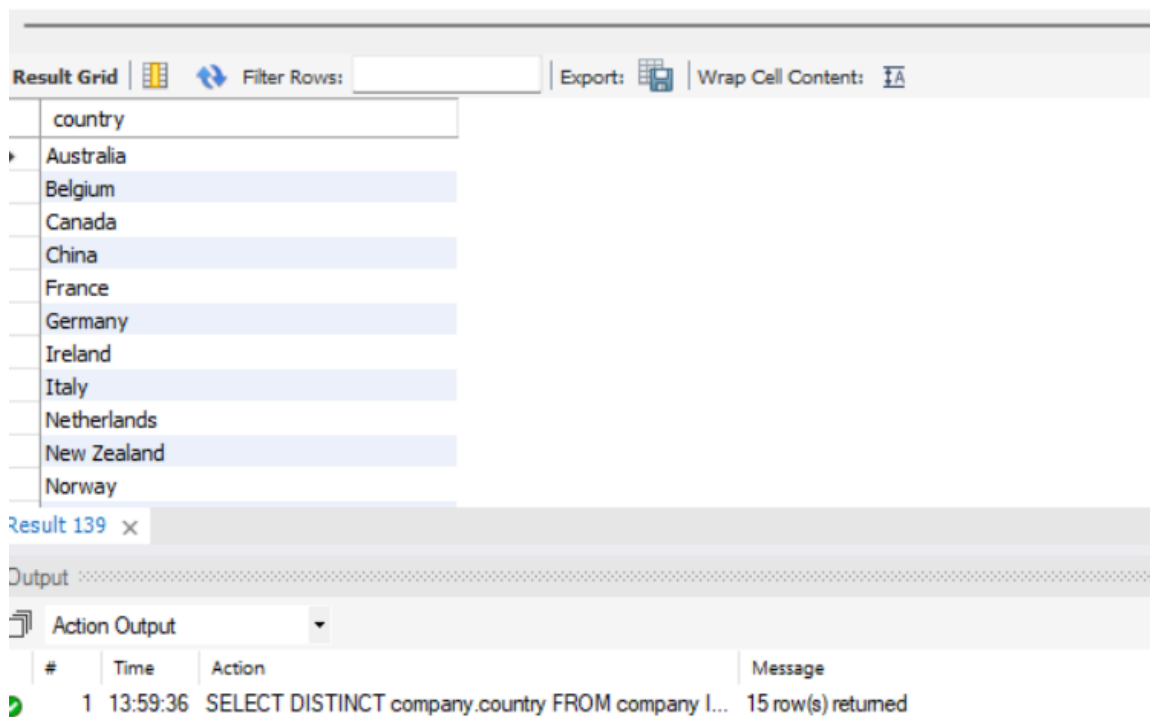
## - Exercici 2

Utilitzant JOIN realitzaràs les següents consultes:

- Llistat dels països que estan fent compres.
- Des de quants països es realitzen les compres.
- Identifica la companyia amb la mitjana més gran de vendes.

- Llistat dels països que estan fent compres.

```
2
3  /* Nivell 1 Exercici 2 Utilitzant JOIN realitzaràs les següents consultes:
4     Llistat dels països que estan fent compres.
5     List of countries making purchases */
6  ● SELECT DISTINCT company.country
7     FROM company
8     INNER JOIN transaction ON company.id = transaction.company_id
9     -- excluded declined transactions
10    WHERE transaction.declined = FALSE
11    ORDER BY company.country ASC;
12
```



The screenshot displays a database management interface. At the top, there's a toolbar with options like 'Result Grid', 'Filter Rows', 'Export', and 'Wrap Cell Content'. Below this is a table titled 'country' with 15 rows, each representing a different country. The countries listed are Australia, Belgium, Canada, China, France, Germany, Ireland, Italy, Netherlands, New Zealand, and Norway. Below the table, there's a section labeled 'Result 139' with a close button. Underneath that is an 'Output' section with a dropdown menu set to 'Action Output'. At the bottom, there's a log table with columns for '#', 'Time', 'Action', and 'Message'. The log shows a single entry: a green play button icon, the number '1', the time '13:59:36', the action 'SELECT DISTINCT company.country FROM company I...', and the message '15 row(s) returned'.

country
Australia
Belgium
Canada
China
France
Germany
Ireland
Italy
Netherlands
New Zealand
Norway

#	Time	Action	Message
1	13:59:36	SELECT DISTINCT company.country FROM company I...	15 row(s) returned

- Des de quants països es realitzen les compres.

The screenshot shows a SQL IDE interface. The top toolbar includes icons for file operations, execution, and a 'Limit to 1000 rows' dropdown. The SQL editor contains the following code:

```
11
12 -- Des de quants països es realitzen les compres.
13 -- From how many countries the purchases are made.
14 • SELECT COUNT(DISTINCT company.country) AS purchase_country_count
15 FROM company
16 INNER JOIN transaction ON company.id = transaction.company_id
17 -- excluded declined transactions
18 WHERE transaction.declined = FALSE;
19
20
```

Below the editor is the 'Result Grid' section, which displays a single row of results:

	purchase_country_count
▶	15

At the bottom, the 'Output' pane shows 'Action Output' with a table of execution messages:

#	Time	Action	Message
✓ 1	11:38:12	SELECT COUNT(DISTINCT company.country) AS purc...	1 row(s) returned

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

Limit to 1000 rows

```

19
20 -- Identifica la companyia amb la mitjana més gran de vendes
21 -- Identify the company with the highest average sales
22 • SELECT company.id, company.company_name, avg(transaction.amount) AS average_sales
23 FROM company
24 INNER JOIN transaction ON company.id = transaction.company_id
25 -- excluded declined transactions
26 WHERE transaction.declined = FALSE
27 GROUP BY company.id, company.company_name
28 ORDER BY avg(transaction.amount) DESC
29 LIMIT 1;

```

Result Grid

id	company_name	average_sales
b-2398	Eget Ipsum Ltd	481.860000

Export: | Wrap Cell Content: | Fetch rows:

Result 47 x

Output

Action Output

#	Time	Action	Message
✓ 1	11:48:08	SELECT company.id, company.company_name, avg(transaction.amount) AS average_sales	1 row(s) returned

## - Exercici 3

Utilizing només subconsultas (sense utilitzar JOIN):

- Mostra totes les transaccions realitzades per empreses d'Alemanya.
- Llista les empreses que han realitzat transaccions per un amount superior a la mitjana de totes les transaccions.

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

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

```

31  /* Exercici 3
32  Mostra totes les transaccions realitzades per empreses d'Alemanya
33  Show all transactions made from Germany */
34
35  -- Retrieves distinct country names that contain the substring 'Ger'.
36  -- This query verifies that 'Germany' appears only once and is spelled correctly.
37  • SELECT DISTINCT country
38  FROM company
39  WHERE UPPER(country) LIKE '%GER%';

```

Result Grid

country
Germany

```

41  -- select all transactions made from Germany
42  • SELECT *
43  FROM transaction
44  -- excluded declined transactions
45  WHERE declined IS FALSE
46  -- include only company_id that has corresponding country "Germany"
47  AND company_id IN (SELECT DISTINCT id
48  FROM company
49  WHERE country = "Germany");

```

Result Grid

id	credit_card_id	company_id	user_id	lat	longitude	timestamp	amount	declined
108B1D1D-5B23-A76C-55EF-C568E49A05DD	CdU-2938	b-2222	275	83.7839	-178.86	2021-07-07 17:43:16	293.57	0
AB069F53-965E-A2A8-CE06-CA8C4FD92501	CdU-2959	b-2234	275	1.64819	-158.007	2021-04-15 13:37:18	60.99	0
0466A42E-47CF-8D24-FD01-C0B689713128	CdU-4219	b-2302	170	-43.9695	-117.525	2021-07-26 07:29:18	49.53	0
0A476ED9-0C13-1962-F87B-D3563924B539	CdU-4359	b-2302	221	-56.4901	114.801	2022-02-26 20:33:54	430.49	0
122DC333-E19F-D629-DCD8-9C54CF1EBB9A	CdU-4366	b-2302	221	29.6372	-166.173	2021-06-09 06:04:14	172.01	0
135267BA-2E7D-957C-C42C-6450A2B3ED54	CdU-4520	b-2302	210	20.6724	14.9732	2021-12-29 20:38:23	17.97	0
14CAE5B5-8FB1-3E4A-4C85-0EA4167534F4	CdU-4849	b-2302	189	-53.6202	93.0533	2021-12-31 00:29:42	388.04	0
158A3ACB-541C-DBCC-65BD-6373CC67BF1C	CdU-4849	b-2302	183	42.5424	-170.347	2022-03-08 05:02:19	240.29	0
162C7E78-2B68-7971-A1E4-D2124E732451	CdU-4527	b-2302	210	-69.1381	58.0017	2021-04-11 05:59:18	231.26	0
1717FD68-ADAD-7082-A748-9112BE892CCC	CdU-4219	b-2302	172	69.4892	-138.411	2021-12-29 16:18:54	249.91	0
1753A288-9FC1-52E6-5C39-A1FFB97B0D3A	CdU-4345	b-2302	222	57.9422	-114.729	2021-08-17 05:32:08	497.84	0
186F53DE-DE27-B1FE-B82F-15B61CEB7726	CdU-4310	b-2302	225	-72.7448	36.6211	2021-12-20 13:13:45	238.16	0
18C4E2DD-1E4C-F35E-2198-C660BD81DC25	CdU-4849	b-2302	177	68.0133	91.4839	2021-09-24 18:55:25	237.04	0
18CCBA7C-ABC1-813D-FAF3-4B8B97429368	CdU-4219	b-2302	173	51.3881	-156.371	2021-06-21 03:21:34	58.16	0
19E1EC3E-2119-1EFD-8AAE-5930D4A4E63F	CdU-4219	b-2302	154	-56.0839	116.987	2021-07-06 21:40:15	29.63	0
1B117D49-936C-BA6C-E94B-30C3293AA239	CdU-4219	b-2302	163	-75.099	109.034	2021-05-09 23:56:04	371.35	0

transaction 55 x

Output

Action Output

#	Time	Action	Message
1	11:00:20	SELECT * FROM transaction -- excluded declined trans...	111 row(s) returned

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

```
54  List the companies that have made transactions for an amount greater than the average of all transactions.*/
55  ● SELECT
56      t.company_id AS company_id,
57      (SELECT company_name FROM company WHERE company_id = id) AS company_name,
58      t.company_transactions_total,
59      t.avg_all_transactions
60  FROM
61      (SELECT
62          company_id,
63          -- calculate amount of the transactions by company
64          SUM(amount) AS company_transactions_total, |
65          -- calculate the average of all transactions
66          (SELECT ROUND(AVG(amount),2) FROM transaction WHERE declined is FALSE) AS avg_all_transactions
67      FROM transaction
68      WHERE declined is FALSE
69      GROUP BY company_id) AS t
70  -- condition select companies that have made transactions for an amount greater than the average of all transactions.
71  HAVING t.company_transactions_total > t.avg_all_transactions
72  ORDER BY t.company_transactions_total DESC;
```

Result Grid Filter Rows:  Export: Wrap Cell Content:

	company_id	company_name	company_transactions_total	avg_all_transactions
▶	b-2302	Nunc Interdum Incorporated	25266.56	259.01
	b-2346	Ut Semper Foundation	16122.39	259.01
	b-2494	Malesuada PC	14885.80	259.01
	b-2326	Enim Condimentum Ltd	14578.03	259.01
	b-2362	Lorem Eu Incorporated	13916.44	259.01
	b-2278	Arcu LLP	13762.79	259.01

Result 95 ×

Output

Action Output ▼

#	Time	Action	Message
---	------	--------	---------



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

	company_id	company_name	company_transactions_total	avg_all_transactions
▶	b-2302	Nunc Interdum Incorporated	25266.56	259.01
	b-2346	Ut Semper Foundation	16122.39	259.01
	b-2494	Malesuada PC	14885.80	259.01
	b-2326	Enim Condimentum Ltd	14578.03	259.01
	b-2362	Lorem Eu Incorporated	13916.44	259.01
	b-2278	Arcu LLP	13762.79	259.01
	b-2618	Non Institute	8911.24	259.01
	b-2398	Eget Ipsum Ltd	481.86	259.01
	b-2410	Sed Id Limited	477.51	259.01
	b-2382	Neque Tellus Incorporated	477.10	259.01
	b-2490	Nunc Sit Incorporated	461.83	259.01
	b-2310	Non Magna LLC	458.74	259.01
	b-2510	Maecenas Malesuada Fringil...	451.29	259.01
	b-2278	Enim LLP	448.44	259.01

Result 95 x

Output

Action Output

#	Time	Action	Message
✓ 1	11:58:53	SELECT t.company_id AS company_id, (SELECT comp...	49 row(s) returned

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

```

74  /* Eliminarian del sistema les empreses que no tenen transaccions registrades, entrega el llistat d'aquestes empreses.
75  Remove from the system the companies that do not have any recorded transactions, and provide the list of these companies.*/
76
77  • SELECT DISTINCT company_name
78    FROM company
79   WHERE id NOT IN
80     -- find all companies that have transactions
81     (SELECT DISTINCT company_id
82      FROM transaction
83      -- excluded declined transactions
84      WHERE transaction.declined = 0);
85
86

```

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

	company_name
--	--------------

company 98 x

Output

Action Output

#	Time	Action	Message
✓ 1	12:02:48	SELECT DISTINCT company_name FROM company W...	0 row(s) returned

# 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.

```
87 Exercici 1
88 Identifica els cinc dies que es va generar la quantitat més gran d'ingressos a l'empresa per vendes.
89 Mostra la data de cada transacció juntament amb el total de les vendes.
90
91 Identify the five days on which the company generated the highest sales revenue.
92 Display the date of each transaction along with the total sales.
93 */
94
95 • SELECT DATE(timestamp) as day, SUM(amount) as toatal_sales
96 FROM transaction
97 -- excluded declined transactions
98 WHERE declined = FALSE
99 GROUP BY DATE(timestamp)
100 ORDER BY SUM(amount) desc
101 LIMIT 5;
```

Result Grid

day	toatal_sales
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 102 x

Output

Action Output

#	Time	Action	Message
1	12:07:08	SELECT DATE(timestamp) as day, SUM(amount) as toa...	5 row(s) returned

## Exercici 2

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

```

103  /* Exercici 2
104  Quina és la mitjana de vendes per país? Presenta els resultats ordenats de major a menor mitjà.
105  What is the average sales per country? Present the results ordered from highest to lowest average. */
106
107  • SELECT country, AVG(amount) AS avg_sales
108     FROM company
109     INNER JOIN transaction ON company.id = transaction.company_id
110     -- excluded declined transactions
111     WHERE transaction.declined = 0
112     GROUP BY country
113     ORDER BY AVG(amount) DESC;
114

```

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

country	avg_sales
United States	287.531111
Ireland	285.825357
Sweden	276.668382
United Kingdom	271.767527
Canada	261.941930
Belgium	255.217500

Result 106 x

Output

Action Output

#	Time	Action	Message
1	12:11:19	SELECT country, AVG(amount) AS avg_sales FROM co...	15 row(s) returned

## 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.
- Mostra el llistat aplicant solament subconsultes.

Mostra el llistat aplicant JOIN i subconsultes.

```
127 -- Mostra el llistat aplicant JOIN i subconsultes
128 -- Las transacciones rechazadas no han sido excluidas
129 • SELECT DISTINCT country, transaction.id AS transaction_ID
130 FROM company
131 INNER JOIN transaction ON company.id = transaction.company_id
132 -- exclude "Non Institute" from the result
133 WHERE company_name != "Non Institute"
134 AND company.country =
135 -- country where "Non Institute" is located
136 (SELECT country
137 FROM company
138 WHERE company_name = "Non Institute");
139
140 -- Mostra el llistat aplicant solament subconsultes
```

Result Grid

	country	transaction_ID
▶	United Kingdom	2B928E1C-EC14-A760-0A75-871477649D6A
	United Kingdom	ACD2011A-A2B1-C365-41E1-2AB00C65147A
	United Kingdom	4334349E-CEB0-3D68-A4D4-FEB7718A1ACE
	United Kingdom	BC2B9A38-77B4-28CD-1FE8-14DED863E773
	United Kingdom	1479B3D2-87BA-C7BB-4CE3-8D7C2DE85ABB
	United Kingdom	152598C2-029D-D684-4B66-91EDF393EBFF
	United Kingdom	1B636B58-A2E8-7C69-D9C9-C54535DAFD3B
	United Kingdom	20418DE5-B804-8E9B-BD7A-A95C1BFD8F5C

Result 144 x

Output

Action Output

#	Time	Action	Message
✓ 1	10:15:34	SELECT DISTINCT country, transaction.id AS transacti...	70 row(s) returned

- Mostra el llistat aplicant solament subconsultes.

```

143 • SELECT DISTINCT transaction.id AS transaction_id
144 FROM transaction
145 WHERE company_id IN
146 -- Find the IDs of companies that are in the same country as 'Non Institute' but are not 'Non Institute' itself
147 (SELECT id
148 FROM company
149 WHERE company_name != "Non Institute"
150 AND country =
151 (SELECT country
152 FROM company
153 WHERE company_name = "Non Institute"));
154
155

```

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

transaction_id
2B928E1C-EC14-A760-0A75-871477649D6A
ACD2011A-A2B1-C365-41E1-2AB00C65147A
4334349E-CEB0-3D68-A4D4-FEB7718A1ACE
BC2B9A38-77B4-28CD-1FE8-14DED863E773
1479B3D2-87BA-C7BB-4CE3-8D7C2DE85ABB
152598C2-029D-D684-4B66-91EDF393EBFF
1B636B58-A2E8-7C69-D9C9-C5453DAFD3B
20418DE5-B804-BE9B-BD7A-A95C1BFD8F5C

transaction 146 x

Output

Action Output

#	Time	Action	Message
1	10:16:29	SELECT DISTINCT transaction.id AS transaction_id FR...	70 row(s) returned

## 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. Ordena els resultats de major a menor quantitat.

```

166 • SELECT company_name, phone, country, timestamp, amount
167 FROM company
168 INNER JOIN transaction ON company.id = transaction.company_id
169 WHERE transaction.amount BETWEEN 100 AND 200
170 AND DATE(transaction.timestamp) IN ("2021-04-29", "2021-07-20", "2022-03-13")
171 -- excluded declined transactions
172 AND transaction.declined = 0
173 ORDER BY amount DESC;

```

company_name	phone	country	timestamp	amount
Interdum Feugiat Sed Associates	04 88 40 32 52	United Kingdom	2021-07-20 10:12:15	164.86
Nunc Interdum Incorporated	05 18 15 48 13	Germany	2022-03-13 13:37:34	164.32
Enim Condimentum Ltd	09 55 51 66 25	United Kingdom	2021-04-29 06:17:02	149.89
Lorem Eu Incorporated	01 83 66 62 07	Canada	2021-07-20 08:47:44	133.39
Nunc Interdum Incorporated	05 18 15 48 13	Germany	2021-04-29 02:25:49	111.51

Result 127 x

Output

Action Output

#	Time	Action	Message
1	12:43:41	SELECT company_name, phone, country, timestamp, a...	5 row(s) returned




## 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 especifiquis si tenen més de 4 transaccions o menys.

```

185 • SELECT DISTINCT company.id as company_id, company_name, count(*) AS transctions_number,
186 CASE
187 WHEN count(*) > 4 THEN "> 4"
188 ELSE "≤ 4"
189 END AS count_transactions_not_declined
190
191 FROM company
192 LEFT JOIN transaction ON company.id = transaction.company_id
193 -- exclude declined transactions
194 WHERE transaction.declined = FALSE
195 GROUP BY company.id, company_name
196 ORDER BY transctions_number DESC;



```

Result Grid  Filter Rows:  Export:  Wrap Cell Content: 

	company_id	company_name	transactions_number	count_transactions_not_declined
▶	b-2302	Nunc Interdum Incorporated	104	> 4
	b-2346	Ut Semper Foundation	58	> 4
	b-2326	Enim Condimentum Ltd	56	> 4
	b-2278	Arcu LLP	55	> 4
	b-2362	Lorem Eu Incorporated	53	> 4
	b-2494	Malesuada PC	51	> 4
	b-2618	Non Institute	30	> 4
	b-2250	Amet Nulla Donec Corporation	1	≤ 4
	b-2222	Ac Fermentum Incorporated	1	≤ 4
	b-2394	Tortor Nunc Commodore Company	1	≤ 4
	b-2330	Donec Fringilla PC	1	≤ 4

Result 133 x

Output

 Action Output 

#	Time	Action	Message
✓ 1	12:53:34	SELECT DISTINCT company.id as company_id, compa...	100 row(s) returned