

Diego Mere

Data Analytics

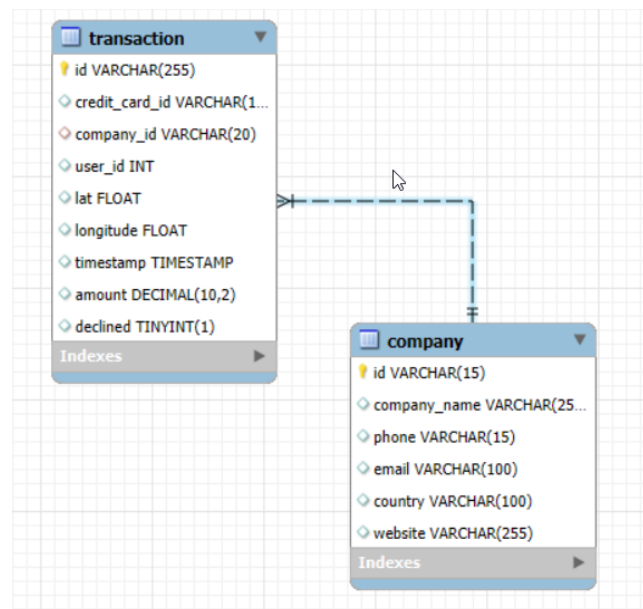
Tasca S2.01. Nocions bàsiques SQL - Sprint 2

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.

Esquema:



El esquema consisteix en 2 taules únicament,

La primera, **transaction**, consisteix en 9 columnes, 1 PK (ID), 1 FK (company_id) i diversos tipus de dades, int, float, varchar de diversos mides, decimals, data i un enter petit per a un booleà:

Information	
Table: transaction	
Columns:	
id	varchar(255) PK
credit_card_id	varchar(15)
company_id	varchar(20)
user_id	int
lat	float
longitude	float
timestamp	timestamp
amount	decimal(10,2)
declined	tinyint(1)

Y es donde se encuentran todas las transacciones realizadas por las distintas compañías.

La segunda, **company**, es donde se resumen los datos de cada una de las compañías asociadas, solo 6 columnas, solo cuenta con su PK (ID) que enlaza a la FK de transaction mediante “company_id”, único tipo de dato varchar de distintos tamaños:

Information

Table: company

Columns:

id

company_name

phone

email

country

website

varchar(15) PK

varchar(255)

varchar(15)

varchar(100)

varchar(100)

varchar(255)

Sprint2 Diego-Maria

transaction

company

Limit to 1000 rows

1 SELECT * FROM transactions.transaction

Result Grid

Filter Rows

id credit_card_id company_id user_id lat longitude timestamp amount declined

02C3203E-090A-3859-84EE-88C2086D3802	CJ-U-2938	b-2362	92	81.9385	-12.5278	2021-08-28 23:42:24	466.92	0
9464A4E-470F-8D24D0D1-C0B869713128	CJ-U-4129	b-2302	179	-43.9685	-117.525	2021-07-28 07:26:18	46.53	0
063FA79-98EC-68FB-29F7-25726D176445	CJ-U-2987	b-2230	275	-81.2227	-129.05	2022-01-06 21:25:27	92.61	0
0668296C-C269-A883-766C-2E4C4F8C8AE	CJ-U-3743	b-2618	265	-34.3393	-100.556	2022-01-26 02:07:14	394.18	0
06C29A45-9842-058A-E000-A3E23F8BA9	CJ-U-2939	b-2346	92	33.7381	158.296	2021-07-26 23:00:11	279.52	0
07846C48-31A3-7837-6389-0DA93A2D109F	CJ-U-3225	b-2386	272	38.8342	92.1905	2021-06-28 21:11:42	340.87	1
090E92CE-6F27-2867-1385-9385828388E2	CJ-U-3071	b-2298	275	71.1706	30.5757	2021-05-11 20:40:06	303.65	1
0A470ED9-9C13-1262-F87B-035639246339	CJ-U-4109	b-2302	221	-56.4901	114.801	2022-02-26 20:32:54	438.49	0
08808087-8D66-1707-C146-60CC78718148	CJ-U-1141	b-2338	272	23.3264	-15.6037	2022-01-04 14:54:36	288.81	1
8C7C3A35-9947-38C1-846D-78E3D0D17598	CJ-U-3309	b-2434	272	63.3615	-68.6667	2021-04-10 20:58:41	103.44	1
0CE937M-CCAA-2874-6839-8A4818324853	CJ-U-3435	b-2306	269	-49.3337	-10.26	2022-02-02 07:20:38	428.69	1
0CC295A8-9C8E-01E3-9699-899F43AD755A	CJ-U-2959	b-2354	275	6.68811	130.382	2021-04-17 05:30:17	352.47	1
0117AA39-3D3F-3A4C-1992-0115A8D1FA0A	CJ-U-3701	b-2618	267	4.27645	-101.554	2021-11-01 01:02:11	447.11	0
1028DA24-8826-31F1-6320-078A805C13D2	CJ-U-2959	b-2346	92	32.0646	-140.147	2021-12-07 09:30:38	465.31	0
10881D1D-3823-A79C-138F-C586E-69A02D0	CJ-U-2938	b-2322	275	83.7839	-178.46	2021-07-07 17:10:16	203.57	0
10A9607A-83DC-36EB-4D15-13C6CC128037	CJ-U-3155	b-2346	272	-32.0556	-76.7281	2021-05-16 21:00:28	27.85	1
11ABED97-6A12-3894-96FD-A33ACC172179	CJ-U-3981	b-2362	68	-76.8402	8.76182	2021-07-14 20:55:48	157.20	0
1228C335-E18F-6D29-CD28-9C5ACF12889A	CJ-U-4366	b-2302	221	29.6372	-166.173	2021-06-09 16:04:14	172.61	0

Sprint2 Diego-Maria

transaction

company

Limit to 1000 rows

1 SELECT * FROM transactions.company

2

3

Result Grid

Filter Rows

id company_name phone email country website

b-2322	Ac Fementum Incorporated	06 95 56 52 33	dorec.portitor.hellu@yahoo.net	Germany	https://instagram.com/ite
b-2328	Magna A Neque Industries	04 14 44 64 62	reus.dorec.nib@icloud.org	Australia	https://whatsapp.com/group/9
b-2330	Fuice Corp.	08 14 97 58 85	reus.dorec.nib@icloud.org	United States	https://pinterest.com/sub/cars
b-2334	Cornelia In Incorporated	06 68 57 28 50	maurui@iell.co.uk	Germany	https://www.com/uew/130
b-2338	Ante Jaculis Nec Foundation	08 23 04 99 53	sed.dictum.pran@outlook.ca	New Zealand	https://netflix.com/settings
b-2342	Dorec Ltd	01 25 51 37 37	at.jaculis@hotmail.co.uk	Norway	https://mytimes.com/user/130
b-2346	Sed Hunc Ltd	02 62 64 73 48	nib@yahoo.org	United Kingdom	https://www.com/line
b-2350	Anet Nulla Dorec Corporation	07 15 25 14 74	maurui.integer.eu@protonmail.net	Italy	https://netflix.com/sub/cars
b-2354	Nascent Ridiculus Mus Inc.	06 26 87 61 84	suspendisse.dui@cloud.net	United States	https://ibay.com/sub
b-2358	Vestibulum Lorem PC	02 62 87 33 40	anetec.massa.integer@iell.net	Belgium	https://pinterest.com/sub/cars
b-2362	Gravida Sagittis LLP	03 81 28 33 97	turpis.vitae@google.ca	Sweden	https://naver.com/site
b-2366	Mus Aenean Eget Foundation	06 25 15 52 43	mi.dui@hotmail.net	Sweden	https://instagram.com/group/9
b-2370	De Parturient Institute	05 36 29 78 74	purus@protonmail.org	Ireland	https://google.com/line
b-2374	Sed LLC	01 63 16 56 52	nib@iell.com	Belgium	https://netflix.com/it
b-2378	Ardu LLP	06 46 04 41 49	dui@iell.ca	Norway	https://yahoo.com/sub
b-2382	Pretium Neque Corp.	07 77 48 55 28	eleifend.nec.malesuada@proton...	Australia	https://netflix.com/sub
b-2386	Fringilla LLC	08 25 15 53 57	gravida@protonmail.co.uk	New Zealand	https://netflix.com/user/130
b-2390	Quisque Libero LLC	01 45 48 71 11	sapien.malesie.ord@hotmail.co.uk	China	https://baidu.com/group/9

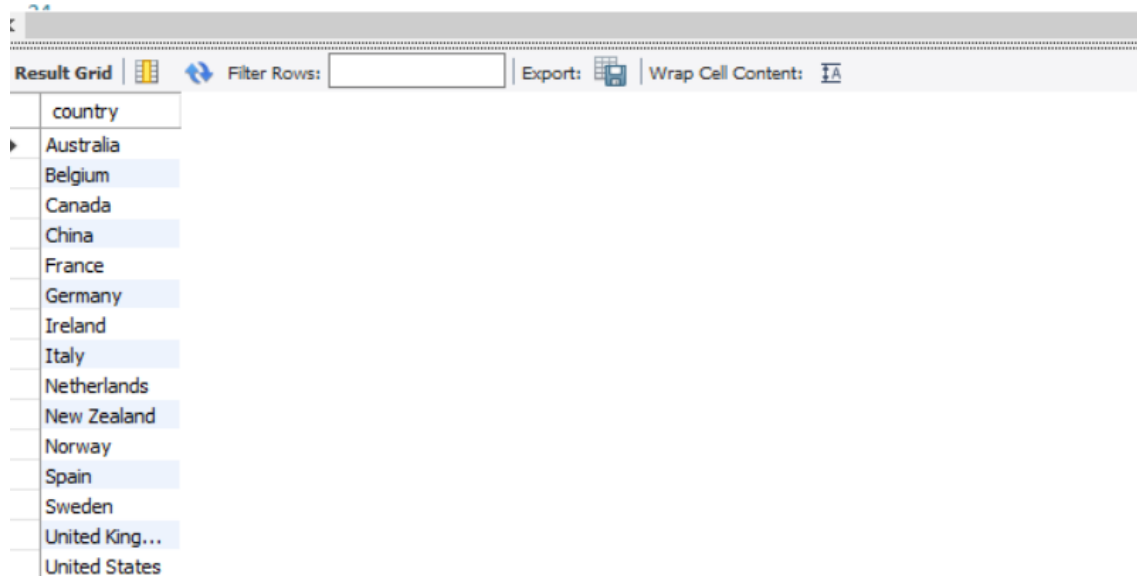
Exercici 2

Utilitzant JOIN realitzaràs les següents consultes:

2.1 Llistat dels països que estan fent compres.

15 païses como respuesta, Entendiendo “hacer compras” como realizar una transacción donde “declined” es igual a 0, o sea, la transacción fue exitosa, por lo tanto la compra hecha, en caso de contar todas las transacciones, solo se necesitaría eliminar la línea del where

```
20 • select distinct country
21     from transaction join company on transaction.company_id = company.id
22     where declined = 0
23     order by 1;
```



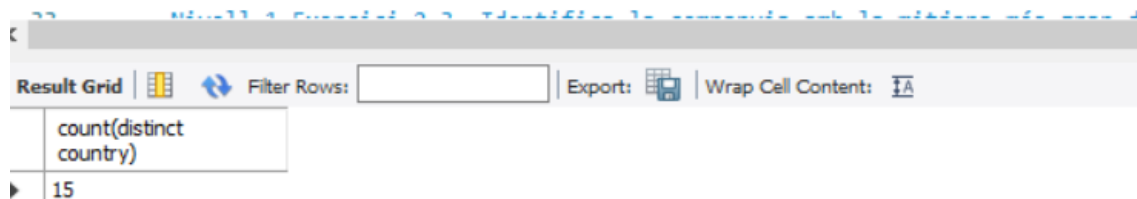
The screenshot shows a database interface with a query result grid. The grid has a header row with the column name 'country'. Below the header, there are 15 rows, each containing a country name. The countries listed are: Australia, Belgium, Canada, China, France, Germany, Ireland, Italy, Netherlands, New Zealand, Norway, Spain, Sweden, United King..., and United States. The interface includes a 'Filter Rows' field, an 'Export' button, and a 'Wrap Cell Content' link.

country
Australia
Belgium
Canada
China
France
Germany
Ireland
Italy
Netherlands
New Zealand
Norway
Spain
Sweden
United King...
United States

2.2 Des de quants països es realitzen les compres.

Respuesta:15

```
28 • select count(distinct country)
29     from transaction join company on transaction.company_id = company.id
30     where declined = 0;
31
32
```



The screenshot shows a database interface with a query result grid. The grid has a header row with the column name 'count(distinct country)'. Below the header, there is one row with the value '15'. The interface includes a 'Filter Rows' field, an 'Export' button, and a 'Wrap Cell Content' link.

count(distinct country)
15

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

```
33 -- Nivell 1 Exercici 2.3 Identifica la companyia amb la mitjana més gran de vendes.
34
35 • select company_name, avg(amount) as "Media de ventas"
36 from transaction join company on transaction.company_id = company.id
37 where declined = 0
38 group by company_name
39 order by 2 desc
40 limit 1;
41 -- Usando el promedio solo de las transacciones completadas (o sea, no declinadas, declined = 0)
```

Result Grid		Filter Rows:	Export:	Wrap Cell Content:	Fetch rows:
company_name	Media de ventas				
Eget Ipsum Ltd	481.860000				

Resposta: Eget Ipsum Ltd, 481.860000, en este caso, sacando de la medida las transacciones no completadas.

Exercici 3

Utilitzant només subconsultes (sense utilitzar JOIN):

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

```
46 -- Nivell 1 Exercici 3.1 Mostra totes les transaccions realitzades per empreses d'Alemanya.
47
48 • select *
49 from transaction
50 where company_id in (select id
51                      from company
52                      where country = 'Germany');
53
```

Result Grid										Filter Rows:	Edit:	Export/Import:	Wrap Cell Content:
	id	credit_card_id	company_id	user_id	lat	longitude	timestamp	amount	declined				
▶	10881D1D-5B23-A76C-55EF-C568E49A05DD	CcU-2938	b-2222	275	83.7839	-178.86	2021-07-07 17:43:16	293.57	0				
	EA2C3281-C9C1-A387-44F8-729FB4B51C76	CcU-2938	b-2222	275	20.2004	-116.84	2021-05-09 10:25:08	119.36	1				
	0DD2E608-5C9E-D1B3-4999-B99F43AD735A	CcU-2959	b-2234	275	9.68811	130.282	2021-04-17 05:30:17	252.47	1				
	AB069F53-965E-A2A8-CE06-CA8C4FD92501	CcU-2959	b-2234	275	1.64819	-158.007	2021-04-15 13:37:18	60.99	0				
	0466A42E-47CF-8D24-FD01-C0B689713128	CcU-4219	b-2302	170	-43.9695	-117.525	2021-07-26 07:29:18	49.53	0				
	0A476ED9-0C13-1962-F87B-D3563924B539	CcU-4359	b-2302	221	-56.4901	114.801	2022-02-26 20:33:54	430.49	0				
	122DC333-E19F-D629-DCD8-9C54CF1EBB9A	CcU-4366	b-2302	221	29.6372	-166.173	2021-06-09 06:04:14	172.01	0				
	135267BA-2E7D-957C-C42C-6450A2B3ED54	CcU-4520	b-2302	210	20.6724	14.9732	2021-12-29 20:38:23	17.97	0				
	14CAE5B5-8FB1-3E4A-4C85-0EA4167534F4	CcU-4849	b-2302	189	-53.6202	93.0533	2021-12-31 00:29:42	388.04	0				
	158A3ACB-541C-DBCC-65BD-6373CC67BF1C	CcU-4849	b-2302	183	42.5424	-170.347	2022-03-08 05:02:19	240.29	0				
	162C7E78-2B6B-7971-A1E4-D2124E732451	CcU-4527	b-2302	210	-69.1381	58.0017	2021-04-11 05:59:18	231.26	0				
	1717FD6B-ADAD-7082-A748-9112BE892CCC	CcU-4219	b-2302	172	69.4892	-138.411	2021-12-29 16:18:54	249.91	0				
	1753A288-9FC1-52E6-5C39-A1FFB97B0D3A	CcU-4345	b-2302	222	57.9422	-114.729	2021-08-17 05:32:08	497.84	0				
	186F53DE-DE27-B1FE-B82F-15B61CEB7726	CcU-4310	b-2302	225	-72.7448	36.6211	2021-12-20 13:13:45	238.16	0				

118 filas de respuesta

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

```
54 -- Nivell 1 Exercici 3.2 Llista les empreses que han realitzat transaccions per un amount superior a la mitjana de totes les transaccions.
55
56 • select distinct company_name
57   from company
58  where id in (
59      select company_id
60      from transaction
61     where amount > (select avg(amount)
62                    from transaction));
63
64
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: [IA](#)

company_name
Ac Fermentum Incorporated
Magna A Neque Industries
Fusce Corp.
Ante Taculis Nec Foundation
Donec Ltd
Sed Nunc Ltd
Nascetur Ridiculus Mus Inc.
Vestibulum Lorem PC
Gravida Sagittis LLP
Mus Aenean Eget Foundation
Dis Parturient Institute
Sed LLC
Ardu LLP

70 empreses en la lista

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

```
77 -- Nivell 1 Exercici 3.3 Eliminaran del sistema les empreses que no tenen transaccions registrades, entrega el llistat d'aquestes empreses.
78
79 • select company_name as "Empresas a eliminar"
80   from company
81  where id not in (select distinct company_id
82                 from transaction);
83
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: [IA](#)

Empresas a eliminar

```
77 -- Nivell 1 Exercici 3.3 Eliminaran del sistema les empreses que no tenen transaccions registrades, entrega el llistat d'aquestes empreses.
78
79 • select company_name as "Empresas a eliminar"
80   from company
81  where id not in (select distinct company_id
82                 from transaction);
83
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: [IA](#)

Empresas a eliminar

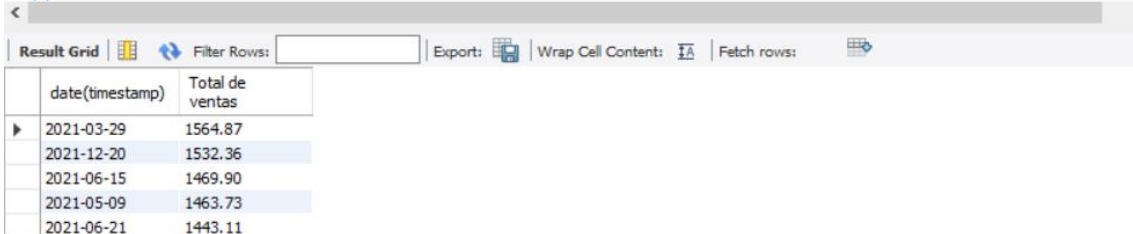
En este momento, no hay empresas sin transacciones registradas

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.

```
4  /*Nivell 2 Exercici 1
5   Identifica els cinc dies que es va generar la quantitat més gran d'ingressos a l'empresa per vendes.
6   Mostra la data de cada transacció juntament amb el total de les vendes.*/
7
8  • SELECT date(timestamp), sum(amount) as "Total de ventas"
9     FROM transaction
10    GROUP BY DATE(timestamp)
11    order by 2 desc
12    Limit 5;
13
```



The screenshot shows a SQL query editor with a query for Exercise 1. The query selects the date from the timestamp and the sum of the amount, grouped by the date, ordered by the sum in descending order, and limited to 5 results. The results are displayed in a table with two columns: date(timestamp) and Total de ventas.

date(timestamp)	Total de ventas
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

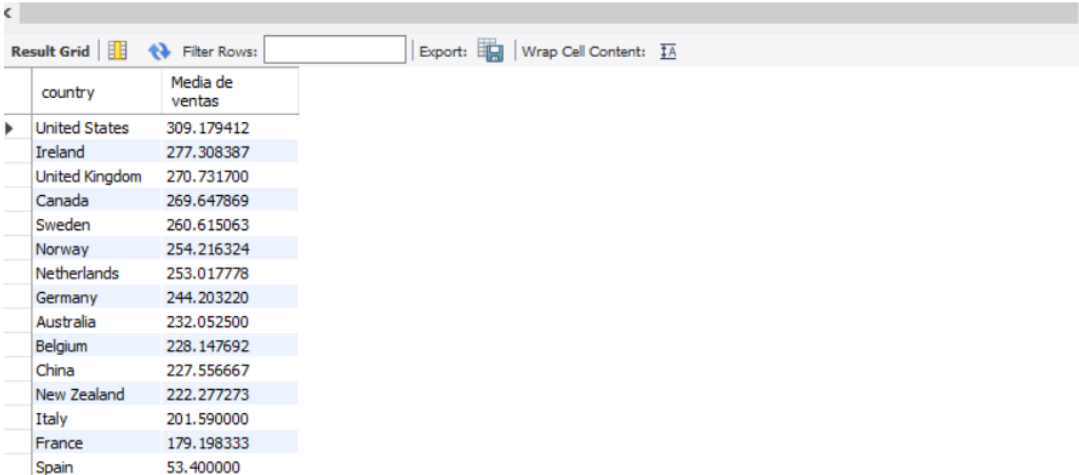
Función “date” para obtener solo la fechas del timestamp completo

Exercici 2

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

```
15 /*Nivell 2 Exercici 2
16 Quina és la mitjana de vendes per país? Presenta els resultats ordenats de major a menor mitjà.*/
17
18 • select country, avg(amount) as "Media de ventas"
19    from company join transaction on company.id = transaction.company_id
20   group by country
21   order by 2 desc;

```



The screenshot shows a SQL query editor with a query for Exercise 2. The query selects the country and the average amount, grouped by country, ordered by the average in descending order. The results are displayed in a table with two columns: country and Media de ventas.

country	Media de ventas
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
New Zealand	222.277273
Italy	201.590000
France	179.198333
Spain	53.400000

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.

```
28 -- Exercici 3.1 Mostra el llistat aplicant JOIN i subconsultes.
29 • Select *
30 from transaction join company on transaction.company_id = company.id
31 where country = (select country
32                  from company
33                  where company_name = 'Non Institute');
```

Result Grid													
Filter Rows:													
Exports													
Wrap Cell Contents:													
id	credit_card_id	company_id	user_id	lat	longitude	timestamp	amount	declined	id	company_name	phone	email	
2B928E1C-EC14-A760-0A75-871477649D6A	CcU-2980	b-2246	275	-41.0496	161.685	2021-08-10 08:14:49	383.73	0	b-2246	Sed Nunc Ltd	02 62 64 73 48	nibh@yahoo.org	
ACD2011A-A2B1-C365-41E1-2AB00C65147A	CcU-2980	b-2246	275	-54.4792	-82.7974	2022-03-05 20:41:20	60.07	1	b-2246	Sed Nunc Ltd	02 62 64 73 48	nibh@yahoo.org	
4334349E-CEB0-3D68-A4D4-FEB7718A1ACE	CcU-3092	b-2310	275	-20.4859	150.87	2021-05-03 22:37:23	458.74	0	b-2310	Non Magna LLC	06 71 73 13 17	nisl.quisque.fringilla@hotmail.com	
BC2B9A38-77B4-28CD-1FE8-14DED863E773	CcU-3092	b-2310	275	-78.0295	18.5295	2021-10-18 07:27:35	477.95	1	b-2310	Non Magna LLC	06 71 73 13 17	nisl.quisque.fringilla@hotmail.com	
147983D2-87BA-C7B8-4CE3-8D7C2DE85A8B	CcU-2994	b-2326	133	66.2672	172.399	2021-08-09 00:58:07	309.45	0	b-2326	Enim Condimentum Ltd	09 55 51 66 25	imperdiet.non.vestibulum	
152598C2-029D-D684-4B66-91EDF393EBFF	CcU-2994	b-2326	126	-67.0189	-141.672	2021-07-05 03:10:00	395.43	0	b-2326	Enim Condimentum Ltd	09 55 51 66 25	imperdiet.non.vestibulum	
1B636858-A2E8-7C69-D9C9-C5453D0AFD3B	CcU-2994	b-2326	131	70.2543	-13.1336	2021-07-06 08:48:46	195.06	0	b-2326	Enim Condimentum Ltd	09 55 51 66 25	imperdiet.non.vestibulum	
204180E5-B804-8E98-BD7A-A95C1BF0BF5C	CcU-2994	b-2326	126	-79.1145	1.51481	2022-01-03 15:59:29	479.52	0	b-2326	Enim Condimentum Ltd	09 55 51 66 25	imperdiet.non.vestibulum	
239B8576-6C0E-137A-C2F6-3180A188A2D3	CcU-2994	b-2326	126	23.6174	137.222	2021-08-26 06:04:05	43.90	0	b-2326	Enim Condimentum Ltd	09 55 51 66 25	imperdiet.non.vestibulum	
267C4A86-7BA7-1C5E-0718-2824983C87D0	CcU-2994	b-2326	126	-17.5259	104.915	2021-10-01 21:08:53	122.63	0	b-2326	Enim Condimentum Ltd	09 55 51 66 25	imperdiet.non.vestibulum	
3142C93E-83B7-49E4-EE2D-29CA834B198D	CcU-2994	b-2326	126	-67.8476	-119.978	2021-04-06 17:24:44	91.59	0	b-2326	Enim Condimentum Ltd	09 55 51 66 25	imperdiet.non.vestibulum	
3578688E-7B1D-B887-3BC7-20B8673AA31E	CcU-2994	b-2326	126	87.0665	-22.7339	2021-07-26 22:59:24	303.60	0	b-2326	Enim Condimentum Ltd	09 55 51 66 25	imperdiet.non.vestibulum	
360C7814-F7AF-B43A-0946-AB38D2683C86	CcU-2994	b-2326	116	-7.93005	-79.0733	2021-08-21 10:19:58	494.82	0	b-2326	Enim Condimentum Ltd	09 55 51 66 25	imperdiet.non.vestibulum	
391E1CFD-D653-E45B-A729-F2E893247B58	CcU-2994	b-2326	118	60.5512	103.904	2021-10-09 00:50:38	271.27	0	b-2326	Enim Condimentum Ltd	09 55 51 66 25	imperdiet.non.vestibulum	

- Mostra el llistat aplicant solament subconsultes.

```
37 • select *
38 from transaction
39 where company_id in (select id
40                      from company
41                      where country = (select country
42                                      from company
43                                      where company_name = 'Non Institute'));
44
```

Result Grid									
Filter Rows:									
Edit									
Export/Imports									
Wrap Cell Contents:									
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-C7B8-4CE3-8D7C2DE85A8B	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	
1B636858-A2E8-7C69-D9C9-C5453D0AFD3B	CcU-2994	b-2326	131	70.2543	-13.1336	2021-07-06 08:48:46	195.06	0	
204180E5-B804-8E98-BD7A-A95C1BF0BF5C	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-0718-2824983C87D0	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-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	

100 transacciones en ambos casos

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.

```
9 • select company_name, country, phone, date(timestamp), amount
10 from transaction join company on transaction.company_id = company.id
11 where amount between 100 and 200
12 and date(timestamp) in ('2021-04-29', '2021-07-20', '2022-03-13')
13 order by 5 desc;
14
15
```

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

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.

```
21 • select company_name, Cuentas.Cantidad_Transacciones,
22 case when Cuentas.Cantidad_Transacciones < 4 then "Menos de 4 transacciones"
23      when Cuentas.Cantidad_Transacciones > 4 then "Mas de 4 transacciones"
24      else "4 transacciones"
25      end as "Nivel de transacciones"
26 from company join (select company_id, count(id) as Cantidad_Transacciones
27                   from transaction
28                   group by company_id) as Cuentas on company.id = Cuentas.company_id
29 order by 2 desc;
```

company_name	Cantidad_Transacciones	Nivel de transacciones
Nunc Interdum Incorporated	105	Mas de 4 transacciones
Ut Semper Foundation	59	Mas de 4 transacciones
Enim Condimentum Ltd	57	Mas de 4 transacciones
Arcu LLP	56	Mas de 4 transacciones
Lorem Eu Incorporated	54	Mas de 4 transacciones
Malesuada PC	52	Mas de 4 transacciones
Non Institute	30	Mas de 4 transacciones
Fusce Corp.	2	Menos de 4 transacciones
Convallis In Incorporated	2	Menos de 4 transacciones
Ante Iaculis Nec Foundation	2	Menos de 4 transacciones
Donec Ltd	2	Menos de 4 transacciones
Sed Nunc Ltd	2	Menos de 4 transacciones