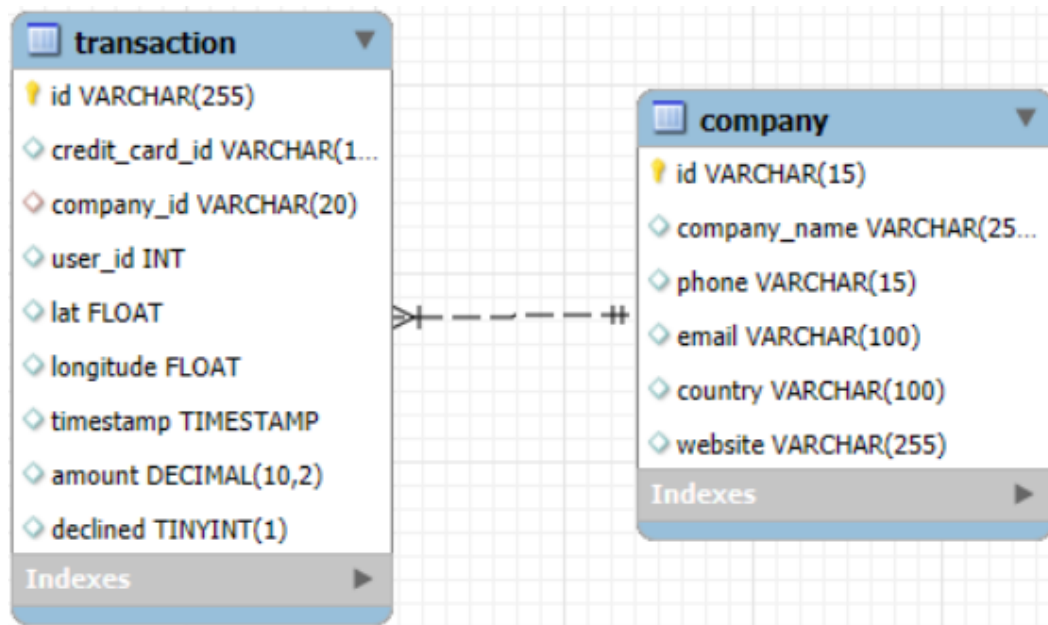


N1E1



Tenemos dos tablas, relacionadas en N:1 con transaction siendo N y company siendo 1.

Se relacionan entre ellas mediante company_id (que es la clave foránea en transaction) y id (que es la primaria de company).

La relación tiene sentido, ya que una compañía puede tener varias transacciones, pero una misma transacción no la pueden hacer varias compañías a la vez.

N1E2

```
4  -- Llistat dels països que estan fent compres.
5  • SELECT DISTINCT country
6  FROM company
7  JOIN transaction
8  ON (company.id = company_id)
9  WHERE company_id IN (company.id)
10 ORDER BY country;
```

Result Grid			
Filter Rows: <input type="text"/>			
Export: <input type="text"/> Wrap Cell Content: <input type="text"/>			
country			
Australia			
Belgium			
Canada			
China			
France			
Germany			
Ireland			
Italy			
Netherlands			
New Zealand			
Norway			
Spain			
Sweden			

Result 3 x

Output

#	Time	Action	Message
1	12:15:09	SELECT DISTINCT country FROM company JOIN transaction ON (company.id = company_id) WHERE compa...	15 row(s) returned

```

12 -- Des de quants països es realitzen les compres.
13 • SELECT count(DISTINCT country) as NumPaís
14 FROM company
15 JOIN transaction
16 ON (company.id = company_id)
17 WHERE company_id IN (company.id);
18
19 -- Identifica la companyia amb la mitjana més gran de vendes. (Es refereix al valor de les venes:

```

Result Grid	Filter Rows:	Export:	Wrap Cell Content:
NumPaís			
15			

Result 5	Output
	<div> <div>Action Output</div> <div> <div>#</div> <div>Time</div> <div>Action</div> <div>Message</div> </div> </div>
1	12:16:36 SELECT count(DISTINCT country) as NumPaís FROM company JOIN transaction ON (company_id = company_id) 1 row(s) returned

```

19 -- Identifica la companyia amb la mitjana més gran de vendes. (Es refereix al valor de les ventes, no el nº)
20 • SELECT company_name as Nombre, round(AVG(amount), 2) as MediaVentas
21 FROM transaction
22 JOIN company
23 ON (company_id = company_id)
24 GROUP BY company_id
25 ORDER BY MediaVentas DESC
26 LIMIT 1;
27
28 -- Exercici 3

```

Result Grid	Filter Rows:	Export:	Wrap Cell Content:	Fetch rows:
Nombre	MediaVentas			
Eget Ipsum Ltd	473.08			

Result 7	Output
	<div> <div>Action Output</div> <div> <div>#</div> <div>Time</div> <div>Action</div> <div>Message</div> </div> </div>
1	12:17:21 SELECT company_name as Nombre, round(AVG(amount), 2) as MediaVentas FROM transaction JOIN company ... 1 row(s) returned

N1E3

```

31 -- Mostra totes les transaccions realitzades per empreses d'Alemanya.
32 • SELECT *
33 FROM transaction
34 WHERE company_id IN (SELECT id FROM company WHERE country = "Germany");
35
36 -- Llista les empreses que han realitzat transaccions per un amount superior a la mitjana de totes :

```

result grid		Filter Rows:		Edit:	Export/Imports:		Wrap Cell Content: <input type="checkbox"/>	
id	credit_card_id	company_id	user_id	lat	longitude	timestamp	amount	
1088 ID ID-5B23-A76C-55EF-C568E49A05DD	CdU-2938	b-2222	275	83.7839	-178.86	2021-07-07 17:43:16	293.57	
EA2C3281-C9C1-A387-44F8-729FB4B51C76	CdU-2938	b-2222	275	20.2004	-116.84	2021-05-09 10:25:08	119.36	
0DD2E608-5C9E-D1B3-4999-B99F43AD735A	CdU-2959	b-2234	275	9.68811	130.282	2021-04-17 05:30:17	252.47	
AB069F53-965E-A2A8-CE06-CA8C4FD92501	CdU-2959	b-2234	275	1.64819	-158.007	2021-04-15 13:37:18	60.99	
0466A42E-47CF-8D24-FD01-C0B689713128	CdU-4219	b-2302	170	-43.9695	-117.525	2021-07-26 07:29:18	49.53	

Transaction 14	Output
	<div> <div>Action Output</div> <div> <div>#</div> <div>Time</div> <div>Action</div> <div>Message</div> </div> </div>
1	12:29:31 SELECT * FROM transaction WHERE company_id IN (SELECT id FROM company WHERE country = "German... 118 row(s) returned

```

36  -- Llista les empreses que han realitzat transaccions per un amount superior a la mitjana de totes les transaccions.
37  • SELECT company_name
38  FROM company
39  WHERE id IN (SELECT company_id
40              FROM transaction
41              WHERE amount > (SELECT AVG(amount)
42                              FROM transaction));

```

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

company_name
Ac Fermentum Incorporated
Magna A Neque Industries
Fusce Corp.
Ante Jaculis Nec Foundation
Donec Ltd

company 16 x

Output

Action Output

#	Time	Action	Message
1	12:30:11	SELECT company_name FROM company WHERE id IN (SELECT company_id FROM transaction WHERE ...	70 row(s) returned

```

44  -- Eliminaran del sistema les empreses que no tenen transaccions registrades, entrega el llistat d'aquestes empreses.
45  • SELECT company_name
46  FROM company
47  WHERE id NOT IN (SELECT DISTINCT company_id FROM transaction);

```

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

company_name

company 18 x


Output

Action Output

#	Time	Action	Message
1	12:30:53	SELECT company_name FROM company WHERE id NOT IN (SELECT DISTINCT company_id FROM transacti...	0 row(s) returned

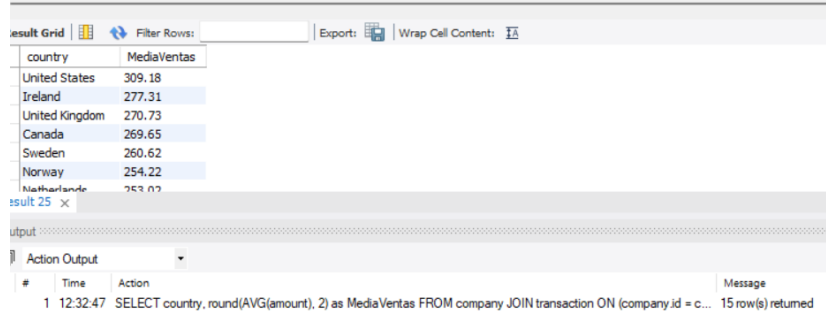
N2E1

```
2 -- 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.
3 • SELECT substring(timestamp, 1, 10) as Date, sum(amount) as Total
4 FROM transaction
5 GROUP BY Date
6 order by Total desc
7 LIMIT 5;
8
9
10 -- Exercici 2
11 -- Quina és la mitjana de vendes per país? Presenta els resultats ordenats de major a menor mitjà.
12 • SELECT country, round(AVG(amount), 2) as MediaVentas
13 FROM company
14 JOIN transaction
15 ON (company.id = company_id)
```



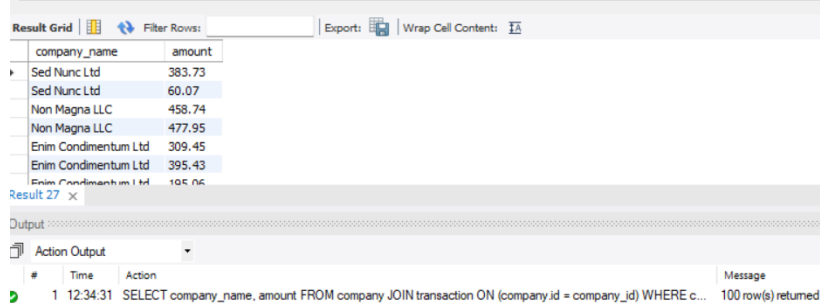
N2E2

```
10 -- Exercici 2
11 -- Quina és la mitjana de vendes per país? Presenta els resultats ordenats de major a menor mitjà.
12 • SELECT country, round(AVG(amount), 2) as MediaVentas
13 FROM company
14 JOIN transaction
15 ON (company.id = company_id)
16 GROUP BY country
17 ORDER BY MediaVentas desc;
18
19 --
```



N2E3

```
21 -- Mostra el llistat aplicant JOIN i subconsultes.
22 • SELECT company_name, amount
23 FROM company
24 JOIN transaction
25 ON (company.id = company_id)
26 WHERE country = (SELECT country FROM company WHERE company_name = "Non Institute");
27
28 -- Mostra el llistat aplicant solament subconsultes.
29 --
```



```

28      -- Mostra el llistat aplicant solament subconsultes.
29      SELECT company_name, amount
30      FROM company, transaction
31      WHERE company.id = company_id
32      AND country = (SELECT country FROM company WHERE company_name = "Non Institute");
33
34

```

Result Grid	Filter Rows:	Export:	Wrap Cell Contents:
company_name	amount		
Sed Nunc Ltd	383.73		
Sed Nunc Ltd	60.07		
Non Magna LLC	458.74		
Non Magna LLC	477.95		
Enim Condimentum Ltd	309.45		
Enim Condimentum Ltd	395.43		
Enim Condimentum Ltd	105.06		

result 28 x

Output

Action Output

#	Time	Action	Message
1	12:35:09	SELECT company_name, amount FROM company, transaction WHERE company.id = company_id AND countr...	100 row(s) returned

N3E1

```
2 -- Presenta el nom, telèfon, país, data i amount, d'aquelles empreses que van realitzar transaccions:
3 • SELECT company_name, phone, country, substring(timestamp, 1, 10) as Date, amount
4 FROM company
5 JOIN transaction
6 ON (company.id = company_id)
7 WHERE substring(timestamp, 1, 10) IN ("2021-04-29", "2021-07-20", "2022-03-13")
8 AND amount BETWEEN 100 AND 200
9 ORDER BY amount desc;
10
11
12 -- Exercici 2
13 -- Necessitem optimitzar l'assignació dels recursos i dependrà de la capacitat operativa que es requereixi
14 • SELECT company_name, IF(count(amount)>4, "Més de 4 transaccions", "4 o menys transaccions") as NumTrans
15 FROM company
```

Result Grid

company_name	phone	country	Date	amount
Interdum Feuglat 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 Condimetum 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 6

Output

Action Output

#	Time	Action	Message
1	12:37:41	SELECT company_name, phone, country, substring(timestamp, 1, 10) as Date, amount FROM company JOIN tra...	5 row(s) returned

N3E2

```
13 -- Necessitem optimitzar l'assignació dels recursos i dependrà de la capacitat operativa que es requereixi
14 • SELECT company_name, IF(count(amount)>4, "Més de 4 transaccions", "4 o menys transaccions") as NumTrans
15 FROM company
16 JOIN transaction
17 ON (company.id = company_id)
18 GROUP BY company_name
19 ORDER BY NumTrans;
20
```

Result Grid

company_name	NumTrans
Ac Fermentum Incorporated	4 o menys transaccions
Magna A Neque Industries	4 o menys transaccions
Fusce Corp.	4 o menys transaccions
Conwallis In Incorporated	4 o menys transaccions
Ante Iaculis Nec Foundation	4 o menys transaccions
Donec Ltd	4 o menys transaccions
Sed Nunc Ltd	4 o menys transaccions

Result 7

Output

Action Output

#	Time	Action	Message
1	12:38:35	SELECT company_name, IF(count(amount)>4, "Més de 4 transaccions", "4 o menys transaccions") as NumTran...	100 row(s) returned