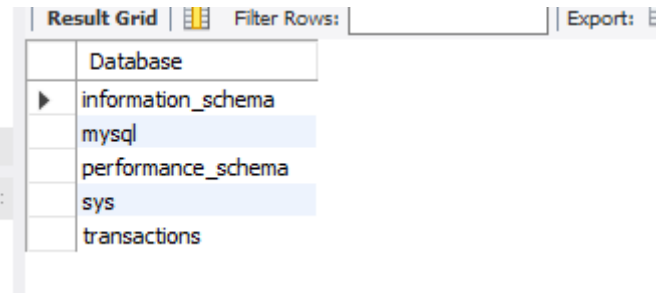TASCA 01.01

Nivell 1

Exercici 1

SHOW DATABASES; -- Un cop executats els scripts adjunts, ens mostra que la base de dades existeix
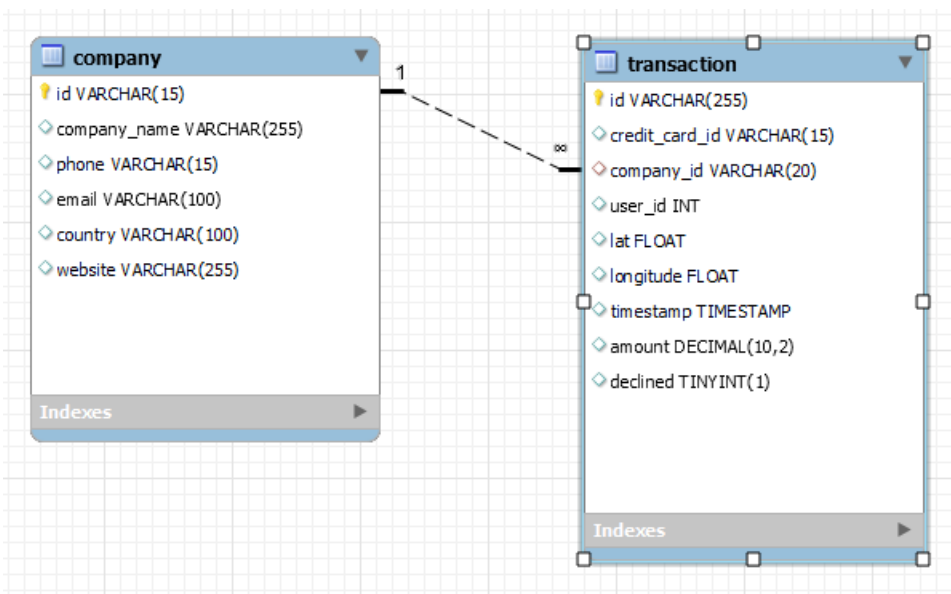

SELECT * FROM transactions.company; -- Ens mostra la taula "company"

SELECT * FROM transactions.transaction; -- Ens mostra la taula "transaction"

Mostra el diagrama de la base de dades.

Exercici 2

SELECT company_name, email, country FROM transactions.company ORDER BY company_name;

	company_name	email	country
▶	A Institute	metus.aliquam@google.edu	Belgium
	Ac Fermentum Incorporated	donec.porttitor.tellus@yahoo.net	Germany
	Ac Industries	ipsum@yahoo.com	Germany
	Ac Libero Inc.	mollis.lectus@protonmail.ca	United Kingdom
	Aliquam Erat Volutpat LLP	pede.nunc@icloud.net	Italy
	Aliquam Iaculis Lacus Corp.	dictum@aol.org	Belgium
	Aliquam PC	scelerisque.mollis@icloud.org	Germany
	Aliquet Diam Limited	eu.eros.nam@icloud.org	United States
	Aliquet Sem Limited	sem.magna@yahoo.edu	Netherlands

Exercici 3

SELECT DISTINCT country FROM transactions.company

INNER JOIN transactions.transaction

ON company.id = transaction.company_id;

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

Exercici 4

SELECT COUNT (DISTINCT country) AS num_countries FROM transactions.company

INNER JOIN transactions.transaction

ON company.id = transaction.company_id;

	num_countries
▶	15

Exercici 5

SELECT country, company_name FROM transactions.company WHERE id = "b-2354";

	country	company_name
▶	United Kingdom	Ac Libero Inc.

Exercici 6

SELECT AVG(transaction.amount) AS avg_comp_amount, company.company_name

FROM transactions.transaction

INNER JOIN transactions.company

ON transaction.company_id = company.id

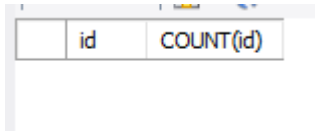GROUP BY company_id ORDER BY avg_comp_amount DESC LIMIT 1;

	avg_comp_amount	company_name
▶	473.075000	Eget Ipsum Ltd

Nivell 2

Exercici 1

```
SELECT id, COUNT(id) FROM transactions.company

GROUP BY id

HAVING COUNT(id) > 1;
```


No dona cap resultat.

```
-- Per comprovar, ordeno les identificacions

SELECT id FROM transactions.company

ORDER BY id;

-- També puc comptar les id

SELECT COUNT(id) FROM transactions.company

ORDER BY id;

-- I veure si és diferent del resulta amb dictinct

SELECT DISTINCT COUNT(id) FROM transactions.company

ORDER BY id;
```
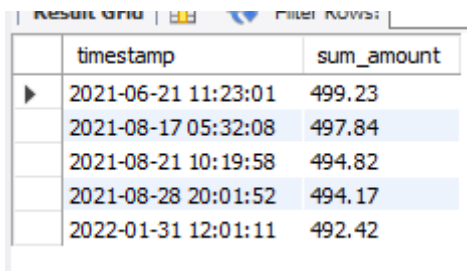
-- Per tant, no, no hi ha identificadors duplicats.

Exercici 2

```
SELECT timestamp, SUM(amount) AS sum_amount FROM transactions.transaction

GROUP BY timestamp

ORDER BY sum_amount DESC LIMIT 5;
```


timestamp	sum_amount
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

Exercici 3

SELECT timestamp, SUM(amount) AS sum_amount FROM transactions.transaction

GROUP BY timestamp

ORDER BY sum_amount ASC LIMIT 5;

 -- Es pot treure l'ASC, ja que és el valor per defecte

Result Grid	Filter Rows:	
timestamp	sum_amount
2022-01-04 08:21:53	15.05
2021-04-22 12:37:13	15.38
2021-07-25 11:39:28	15.90
2021-12-29 20:38:23	17.97
2021-04-27 08:12:28	18.08

Exercici 4

SELECT AVG(transaction.amount) AS avg_country_amount, company.country

FROM transactions.transaction

INNER JOIN transactions.company

ON transaction.company_id = company.id

GROUP BY country ORDER BY avg_country_amount DESC;

avg_country_amount	country
309.179412	United States
277.308387	Ireland
270.731700	United Kingdom
269.647869	Canada
260.615063	Sweden
254.216324	Norway
253.017778	Netherlands
244.203220	Germany
232.052500	Australia

Result 100

Nivell 3

Exercici 1

SELECT company.company_name, company.phone, company.country, SUM(transaction.amount) AS total_amount

FROM transactions.company

INNER JOIN transactions.transaction

ON company.id = transaction.company_id

WHERE amount BETWEEN 100 AND 200

GROUP BY company_id

ORDER BY total_amount DESC;

	company_name	phone	country	total_amount
▶	Enim Condimentum Ltd	09 55 51 66 25	United Kingdom	2747.41
	Nunc Interdum Incorporated	05 18 15 48 13	Germany	2412.55
	Ut Semper Foundation	01 60 36 33 06	Sweden	2285.80
	Arcu LLP	06 46 04 41 45	Norway	1589.00
	Lorem Eu Incorporated	01 83 66 62 07	Canada	1544.61
	Malesuada PC	01 74 85 68 70	Ireland	1255.22
	Non Institute	06 77 15 31 14	United Kingdom	1078.31
	At Associates	09 56 61 10 65	New Zealand	368.81
	Cras Vehicula Aliquet Industries	03 37 86 87 75	Netherlands	339.92

Result 121 ✕

Exercici 2

SELECT DISTINCT company.company_name FROM transactions.company

INNER JOIN transactions.transaction

ON company.id = transaction.company_id

WHERE transaction.timestamp LIKE "2022-03-16%"

OR transaction.timestamp LIKE "2022-02-28%"

OR transaction.timestamp LIKE "2022-02-13%"

ORDER BY company_name;

	company_name
▶	Arcu LLP
	Lorem Eu Incorporated
	Malesuada PC
	Nunc Interdum Incorporated
	Sed LLC
	Ut Semper Foundation