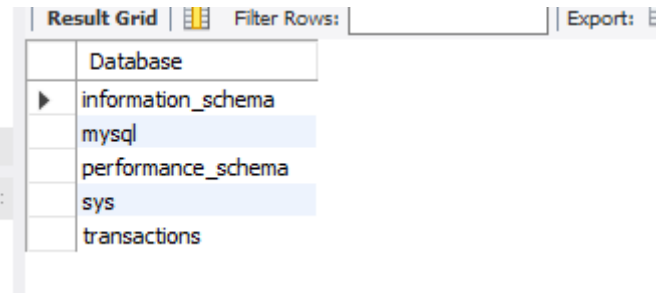


TASCA 01.01

Nivell 1

Exercici 1

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



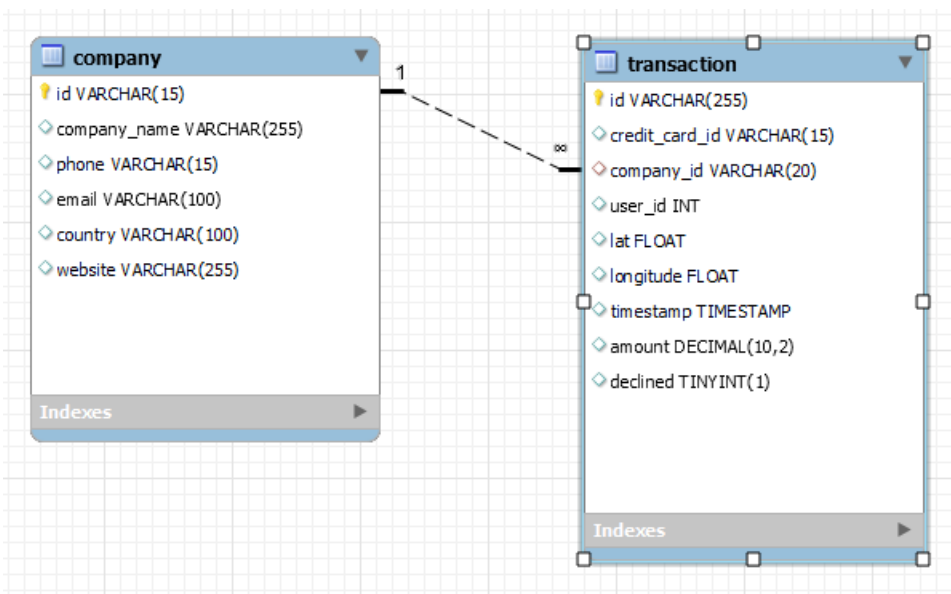
SELECT * FROM transactions.company; -- Ens mostra la taula "company"

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

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

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-A5E394FEBA99	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-6F27-2B87-13B5-9385B2B388E2	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

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;
```

Result Grid	Filter Rows:
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
```

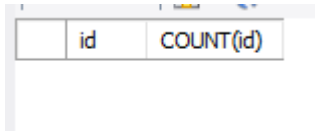
```
GROUP BY company_id ORDER BY avg_comp_amount DESC LIMIT 1;
```

	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;
```



	id	COUNT(id)
--	----	-----------

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;
```

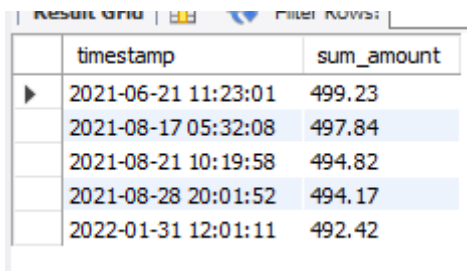
-- I veure si és diferent del resulta amb dictinct

```
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

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 x

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