

Roser Blasco
Sprint 3
Data
Corregit per XXX

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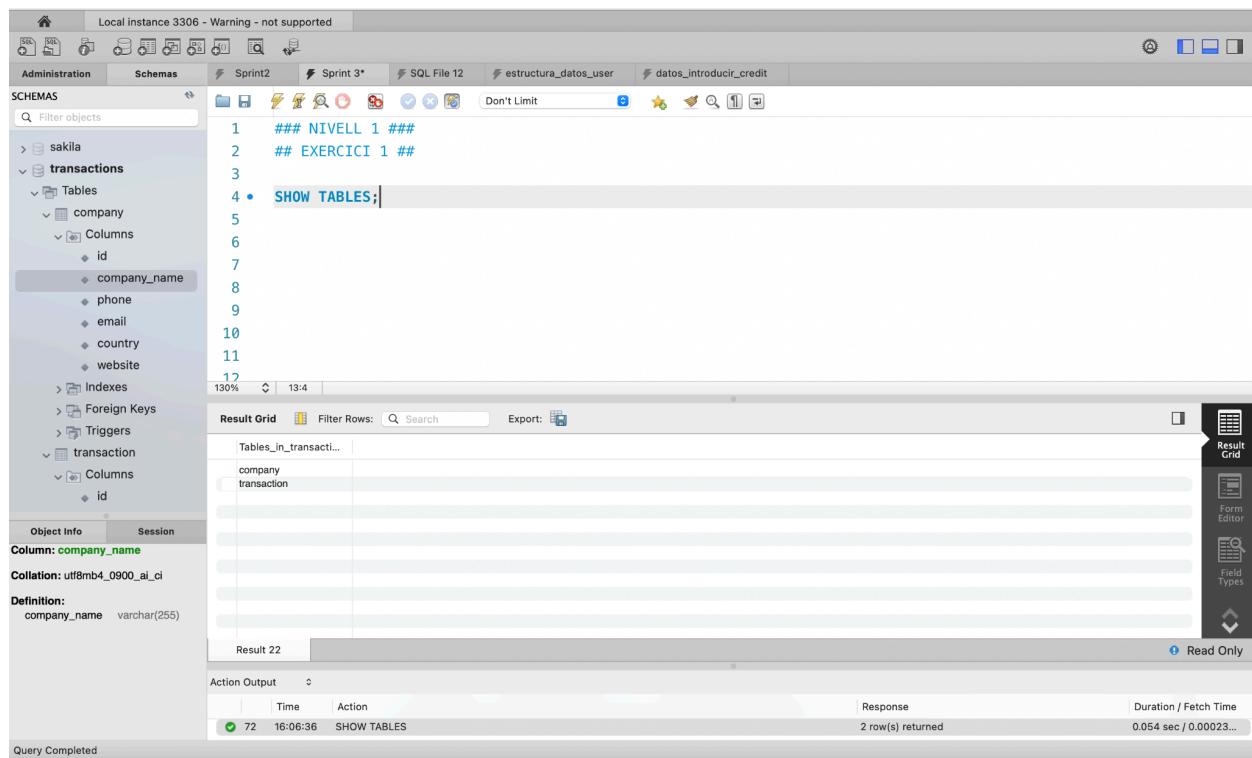
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Nivell 1

- Exercici 1: taula credit_card

La teva tasca és dissenyar i crear una taula anomenada "credit_card" que emmagatzemi detalls crucials sobre les targetes de crèdit. La nova taula ha de ser capaç d'identificar de manera única cada targeta i establir una relació adequada amb les altres dues taules ("transaction" i "company"). Després de crear la taula serà necessari que ingressis la informació del document denominat "dades_introduir_credit". Recorda mostrar el diagrama i realitzar una breu descripció d'aquest.

Comencem verificant que només tenim dues taules



The screenshot shows the MySQL Workbench interface with the following details:

- Left Panel (Schemas):** Shows the 'sakila' schema with a 'transactions' table selected. The 'Tables' section of 'transactions' contains columns: id, company_name, phone, email, country, and website.
- Central Panel (Query Editor):** A SQL editor window with the following content:

```
1  ### NIVELL 1 ###
2  ## EXERCICI 1 ##
3
4 • SHOW TABLES;
```
- Bottom Panel (Result Grid):** A grid titled 'Tables_in_transaction...' showing two rows: 'company' and 'transaction'.
- Bottom Status Bar:** Shows 'Query Completed'.

Afegim la taula, refresquem es schemas i els veiem a l'esquerra.
He elegit VARCHAR per a totes les variables

The screenshot shows the MySQL Workbench interface. In the top navigation bar, the schema is set to 'transactions'. The main area displays the SQL code for creating the 'credit_card' table:

```

1  ## NIVELL 1 ##
2  ## EXERCICI 1 ##
3
4 • SHOW TABLES;
5
6 -- Creem la taula credit_card
7 • CREATE TABLE IF NOT EXISTS credit_card (
8     id VARCHAR(15) PRIMARY KEY,
9     iban VARCHAR(255),
10    pan VARCHAR(255),
11    pin VARCHAR(4),
12    cvv VARCHAR(3),
13    expiring_date VARCHAR(255)
14 );
15

```

The 'Result Grid' pane shows the table structure:

Tables_in_transactions
company
transaction

The status bar at the bottom indicates 'Query Completed'.

Ara carregarem les dades de "dades_introduir_credit" que té unes 275 files

The screenshot shows the MySQL Workbench interface with the schema set to 'dades_introduir_credit'. The main area displays the SQL code for inserting data into the 'credit_card' table:

```

252 • INSERT INTO credit_card (id, iban, pan, pin, cvv, expiring_date) VALUES ('Ccu-4881', 'GE382612364801561281317', '448 57826 38974 72
253 • INSERT INTO credit_card (id, iban, pan, pin, cvv, expiring_date) VALUES ('Ccu-4688', '1538325576473611896271082', '347638823225
254 • INSERT INTO credit_card (id, iban, pan, pin, cvv, expiring_date) VALUES ('Ccu-4695', 'GT4327784356731801238887639', '376558773427
255 • INSERT INTO credit_card (id, iban, pan, pin, cvv, expiring_date) VALUES ('Ccu-4702', 'DK7722824378841077', '348642676875322', *388
256 • INSERT INTO credit_card (id, iban, pan, pin, cvv, expiring_date) VALUES ('Ccu-4709', 'GE45504127369280168124', '453233 846716 4597
257 • INSERT INTO credit_card (id, iban, pan, pin, cvv, expiring_date) VALUES ('Ccu-4716', 'PL5422719283842155387261926', '456884 8341
258 • INSERT INTO credit_card (id, iban, pan, pin, cvv, expiring_date) VALUES ('Ccu-4723', 'FI248793454336573', '3416 376437 29598', '7
259 • INSERT INTO credit_card (id, iban, pan, pin, cvv, expiring_date) VALUES ('Ccu-4730', 'EES4153644818872885', '373396765877539', '5
260 • INSERT INTO credit_card (id, iban, pan, pin, cvv, expiring_date) VALUES ('Ccu-4737', 'AT78617748359359721', '3426 555216 37521',
261 • INSERT INTO credit_card (id, iban, pan, pin, cvv, expiring_date) VALUES ('Ccu-4744', 'A258751886174806634766368322', '52562573595
262 • INSERT INTO credit_card (id, iban, pan, pin, cvv, expiring_date) VALUES ('Ccu-4751', 'PK83730469333394043264694', '3436 372241 8814
263 • INSERT INTO credit_card (id, iban, pan, pin, cvv, expiring_date) VALUES ('Ccu-4758', 'GB5160VH1469185265334', '378466693428441,
264 • INSERT INTO credit_card (id, iban, pan, pin, cvv, expiring_date) VALUES ('Ccu-4765', 'SA288871379878221436615', '446 5139 39347
265 • INSERT INTO credit_card (id, iban, pan, pin, cvv, expiring_date) VALUES ('Ccu-4772', 'ME9832015454148177281', '455 63485 32288 61
266 • INSERT INTO credit_card (id, iban, pan, pin, cvv, expiring_date) VALUES ('Ccu-4779', 'FI398201810971670515', '313 9416 26180 645
267 • INSERT INTO credit_card (id, iban, pan, pin, cvv, expiring_date) VALUES ('Ccu-4786', 'IT03170304187777751', '47680 7839 755
268 • INSERT INTO credit_card (id, iban, pan, pin, cvv, expiring_date) VALUES ('Ccu-4793', 'W053215627749276973885353322', '471667 76764
269 • INSERT INTO credit_card (id, iban, pan, pin, cvv, expiring_date) VALUES ('Ccu-4800', 'S19782434522161436', '5455 7952 5520 3322',
270 • INSERT INTO credit_card (id, iban, pan, pin, cvv, expiring_date) VALUES ('Ccu-4807', 'L8192093187155080510256767074', '4530 4226 82
271 • INSERT INTO credit_card (id, iban, pan, pin, cvv, expiring_date) VALUES ('Ccu-4814', 'W048452034378471522896363741', '3744716193433
272 • INSERT INTO credit_card (id, iban, pan, pin, cvv, expiring_date) VALUES ('Ccu-4821', 'LT5334785686465784', '453087 7873842836,
273 • INSERT INTO credit_card (id, iban, pan, pin, cvv, expiring_date) VALUES ('Ccu-4828', 'BG111M038149367569464', '4485257359421', '2
274 • INSERT INTO credit_card (id, iban, pan, pin, cvv, expiring_date) VALUES ('Ccu-4835', 'FI2450211131762380123582', '3722 677744 238
275 • INSERT INTO credit_card (id, iban, pan, pin, cvv, expiring_date) VALUES ('Ccu-4842', '582156708581957118818229', '3774 636724 8325
276 • INSERT INTO credit_card (id, iban, pan, pin, cvv, expiring_date) VALUES ('Ccu-4849', 'SE8013123487163628531121', '5223363013491514
277 • INSERT INTO credit_card (id, iban, pan, pin, cvv, expiring_date) VALUES ('Ccu-4856', 'TR373872558313545667124286', '34952823571365
278

```

The status bar at the bottom indicates 'Query Completed'.

Li donem un ull a la taula, per a veure que tingui aquest número d'entrades

The screenshot shows the MySQL Workbench interface with the following details:

- Toolbar:** Local instance 3306 - Warning - not supported, MySQL Model*, EER Diagram.
- Schemas:** Administration, Schemas (selected), Sprint2, Sprint 3*, datos_introducir_credit, estructura_dades, SQL File 16*.
- Object Info:** Session, Schema: transactions.
- Query Editor:** SELECT * FROM credit_card; (highlighted with a red box).
- Result Grid:** Shows 275 rows of data from the credit_card table. The columns are id, iban, pan, pin, cvv, and expiring_date. The data includes various card numbers and expiration dates.
- Right Sidebar:** Result Grid, Form Editor, Field Types, Query Stats, Execution Plan.
- Bottom Status:** Query Completed, Action Output, Response (275 row(s) returned), Duration / Fetch Time (0.0014 sec / 0.00009...).

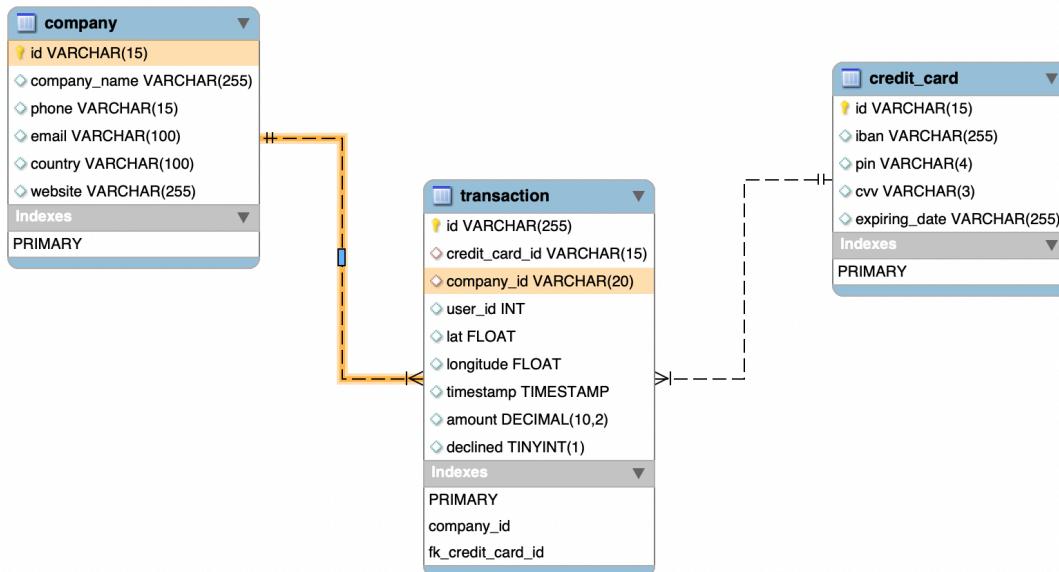
Ara doncs, intentem afegir la relació amb codi

The screenshot shows the MySQL Workbench interface. In the top navigation bar, it says "Local instance 3306 - Warning - not supported". Below the bar, there are tabs for "Administration", "Schemas", "Sprint 3", "SQL File 17*", and "anillacambodi". The "Schemas" tab is selected, showing the "transactions" schema with its tables: "company", "credit_card", and "transaction". The "credit_card" table is currently selected. The main pane displays the following SQL code:

```
1
2 • alter table transaction add constraint fk_credit_card_id foreign key (credit_card_id)
3 references credit_card (id) on delete cascade on update cascade;
```

Below the code, the "Object Info" tab is selected, showing details for the "credit_card" table. It lists columns: id (varchar(15) PK), iban (varchar(255)), pin (varchar(4)), cvv (varchar(3)), and expiring_date (varchar(255)). The "Session" tab shows the execution results of the query, indicating 586 rows affected and a duration of 0.056 sec.

I comprovem que la relació està bé consultant el diagrama



- Exercici 2: canvi registre

El departament de Recursos Humans ha identificat un error en el número de compte de l'usuari amb ID CcU-2938. La informació que ha de mostrar-se per a aquest registre és: R323456312213576817699999. Recorda mostrar que el canvi es va realitzar.

Busquem aquesta entrada en la taula 'credit_card'

The screenshot shows the MySQL Workbench interface. The left sidebar displays the schema 'transactions' with the 'credit_card' table selected. The main pane contains a SQL editor with the following query:

```
1 • SELECT *
2   from credit_card
3  WHERE id = 'CcU-2938';
```

The result grid shows one row of data:

id	iban	pan	pin	cvv	expiring_date
CcU-2938	TR301950312213576817638661	5424465566813633	3257	984	10/30/22

At the bottom, the status bar indicates "Query Completed".

Fem el canvi de registre i comprovem que el canvi s'ha realitzat

The screenshot shows the MySQL Workbench interface. The left sidebar displays the schema 'transactions' with the 'credit_card' table selected. The main pane contains a SQL editor with the following sequence of queries:

```
1
2 • UPDATE credit_card SET iban = 'R323456312213576817699999' WHERE id = 'CcU-2938';
3
4 • SELECT *
5   from credit_card
6  WHERE id = 'CcU-2938';
```

The result grid shows one row of data, identical to the previous screenshot:

id	iban	pan	pin	cvv	expiring_date
CcU-2938	R323456312213576817699999	5424465566813633	3257	984	10/30/22

At the bottom, the status bar indicates "Query Completed".

- Exercici 3: nou usuari

En la taula "transaction" ingressa un nou usuari amb la següent informació:

Id	108B1D1D-5B23-A76C-55EF-C568E49A99DD
credit_card_id	CcU-9999
company_id	b-9999
user_id	9999
lat	829.999
longitude	-117.999
amount	111.11
declined	0

Usem el codi per a afegir nova entrada

The screenshot shows the MySQL Workbench interface. In the left sidebar, under the 'Schemas' section, the 'transactions' schema is selected. Within 'transactions', the 'credit_card' table is highlighted. The main pane displays a SQL query window with the following code:

```
1
2
3 •  INSERT into transaction (id, credit_card_id, company_id, user_id, lat, longitude, amount, declined)
4   VALUES ('108B1D1D-5B23-A76C-55EF-C568E49A99DD', 'CcU-9999', 'b-9999', '9999', '829.999', '-117.999', '111.11', '0');
```

Below the code, the 'Action Output' pane shows a single row of results:

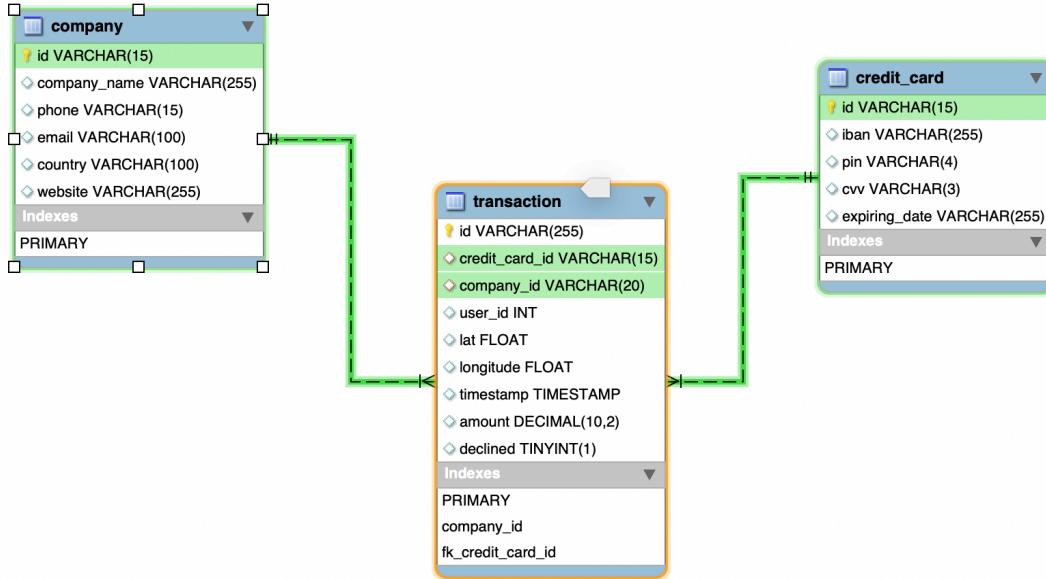
Time	Action	Response	Duration / Fetch Time
11:25:22	INSERT into transaction (id, credit_card_id, company_id, user_id, lat, longitude, a...	Error Code: 1452. Cannot add or update a child row: a foreign key constraint fails	0.011 sec

A status message at the bottom left says 'Query interrupted'.

però com imaginàvem, dóna error per dependències

```
Error Code: 1452. Cannot add or update a child row: a foreign key
constraint fails (`transactions`.`transaction`, CONSTRAINT
`transaction_ibfk_1` FOREIGN KEY (`company_id`) REFERENCES `company`
(`id`))
```

Ens fixem bé en les dependències de la taula de transaccions



Haurem d'afegir aquestes dues entrades primer en les taules de company i credit_card

credit_card_id	CcU-9999
company_id	b-9999

Comencem per afegir en la taula “company” el id b-9999

The screenshot shows the MySQL Workbench interface. In the left sidebar, under the 'Schemas' tab, the 'credit_card' table is selected. The main pane displays the following SQL query:

```
1 • INSERT into company (id)
2     VALUES ('b-9999');
3
```

Below the query, the 'Object Info' tab is active, showing details for the 'credit_card' table. The 'Session' tab shows the execution results:

Action Output	Time	Action	Response	Duration / Fetch Time
39	11:38:18	INSERT into company (id) VALUES ('b-9999')	1 row(s) affected	0.0095 sec

At the bottom, a message says 'Query Completed'.

Mirem que estigui ben afegit

The screenshot shows the MySQL Workbench interface. In the left sidebar, under the 'Schemas' tab, the 'credit_card' table is selected. The main pane displays the following SQL query:

```
1
2 • SELECT *
3   FROM company
4 WHERE id = 'b-9999';
5
```

Below the query, the 'Object Info' tab is active, showing details for the 'credit_card' table. The 'Session' tab shows the execution results:

Result Grid																		
<table border="1"><thead><tr><th>id</th><th>company_name</th><th>phone</th><th>email</th><th>country</th><th>website</th></tr></thead><tbody><tr><td>b-9999</td><td>NULL</td><td>NULL</td><td>NULL</td><td>NULL</td><td>NULL</td></tr><tr><td></td><td>NULL</td><td>NULL</td><td>NULL</td><td>NULL</td><td>NULL</td></tr></tbody></table>	id	company_name	phone	email	country	website	b-9999	NULL	NULL	NULL	NULL	NULL		NULL	NULL	NULL	NULL	NULL
id	company_name	phone	email	country	website													
b-9999	NULL	NULL	NULL	NULL	NULL													
	NULL	NULL	NULL	NULL	NULL													

On the right side of the results grid, there is a vertical toolbar with icons for 'Result Grid', 'Form Editor', 'Field Types', 'Query Stats', and 'Execution Plan'. The 'Result Grid' icon is highlighted.

At the bottom, a message says 'Query Completed'.

I després en la taula “credit_card” afegim el id CcU-9999

The screenshot shows the MySQL Workbench interface with the following details:

- Header:** Local instance 3306 - Warning - not supported, MySQL Model*, EER Diagram.
- Schemas:** Administration, Schemas. Current schema is sakila.
- Tables:** credit_card (selected), company, transaction, vistamarketing, stored procedures, functions, world.
- SQL Editor:** Sprint 3, SQL File 19*, SQL File 21*, SQL File 20*. The query is:

```
1 • INSERT into credit_card (id)
2   VALUES ('CcU-9999');
3
```

- Object Info:** Table: credit_card.
 - Columns:** id (varchar(15) PK), iban (varchar(255)), pin (varchar(4)), cvv (varchar(3)), expiring_date (varchar(255)).
 - Action Output:** 1 row(s) affected, Duration / Fetch Time: 0.0051 sec.
- Status Bar:** Query Completed.

Mirem que estigui bé

I ara és quan tornem a intentar insertar el registre a transactions i ens diu que ha anat bé

The screenshot shows the MySQL Workbench interface. In the left sidebar, under the 'Schemas' section, the 'credit_card' table is selected. The main pane displays the SQL query:

```
1
2
3 • INSERT into transaction (id, credit_card_id, company_id, user_id, lat, longitude, amount, declined)
4   VALUES ('108B1D1D-5B23-A76C-55EF-C568E49A990D', 'CcU-9999', 'b-9999', '9999', '829.999', '-117.999', '111.11', '0');
```

The status bar at the bottom indicates "Query Completed".

Comprovem. Ara si.

The screenshot shows the MySQL Workbench interface. In the left sidebar, under the 'Schemas' section, the 'transaction' table is selected. The main pane displays the SQL query:

```
1 • SELECT *
2   FROM transaction
3   WHERE id = '108B1D1D-5B23-A76C-55EF-C568E49A990D';
```

The results are shown in a grid:

id	credit_card_id	company_id	user_id	lat	longitude	timestamp	amount	declined
108B1D1D-5B23-A76C-55EF-C568E49...	CcU-9999	b-9999	9999	829.999	-117.999		111.11	0

The status bar at the bottom indicates "Query Completed".

- Exercici 4: eliminar columna

Des de recursos humans et sol·liciten eliminar la columna "pan" de la taula credit_card. Recorda mostrar el canvi realitzat.

Comencem donant un ull a la taula credit_card

The screenshot shows the MySQL Workbench interface with the following details:

- Schemas:** sakila, transactions (selected), credit_card (selected).
- Tables:** company, credit_card (selected).
- Columns:** id, iban, pan, pin, cvv, expiring_date.
- Query Editor:** Contains the following SQL code:

```
2
3  ### NIVELL 1 ###
4  ## EXERCICI 4 ##
5  # - Eliminar la columna "pan" de la taula credit_card
6
7  • SELECT *
8  FROM credit_card;
```
- Result Grid:** Shows the results of the SELECT query, listing 275 rows of data from the credit_card table.
- Execution Plan:** Located on the right side of the interface.

Treiem la columna pan

```

MySQL Workbench

Administration Schemas Sprint 3 Query 1 SQL File 8* Don't Limit
SCHEMAS Filter objects
1
2
3  ## NIVELL 1 ##
4  ## EXERCICI 4 ##
5 # - Eliminar la columna "pan" de la taula credit_card
6 • ALTER TABLE credit_card
7 DROP COLUMN pan;

```

The screenshot shows the MySQL Workbench interface. The left sidebar displays the database schema with the 'credit_card' table selected. The main area shows the SQL editor with the following code:

```

ALTER TABLE credit_card
DROP COLUMN pan;

```

The status bar at the bottom indicates 'Query Completed'.

I comprovem que la columna ja no està

```

MySQL Workbench

Administration Schemas Sprint 3 Query 1 SQL File 8* Don't Limit
SCHEMAS Filter Rows: Search Edit: Export/Import:
1
2 • SELECT *
3 FROM credit_card;

```

The screenshot shows the MySQL Workbench interface. The left sidebar displays the database schema with the 'credit_card' table selected. The main area shows the results of a SELECT query on the 'credit_card' table:

id	iban	pin	cvv	expiring_date
CcU-2938	R323456312213576817699999	3257	984	10/30/22
CcU-2945	D098765432109875216568689	9080	887	08/24/23
CcU-2952	023456789012345678901234567890	9898	9898	09/21/21
CcU-2969	0789457724433841555	3583	897	09/24/23
CcU-2966	B072LKTQ15627628377383	4900	130	10/23/24
CcU-2973	PT87802281350924294563246	8760	887	01/30/25
CcU-2980	DE39241881883062771136	5075	596	07/24/22
CcU-2987	GE8921434837748781813	2298	797	10/31/23
CcU-2994	BH6271442383806765294	7545	595	02/28/22
CcU-3001	CY49087426654774581266832110	9562	867	09/16/22
CcU-3008	LU50721669161619230	1856	740	04/05/25
CcU-3015	P00000000000000000000000000000000	3246	0	01/31/22
CcU-3022	ATP-699-162606565697742512185710	546	295	02/25/25
CcU-3029	AZ031741389341418123730746	9708	596	09/02/23
CcU-3036	AZ333600292584296564384194	2232	565	10/27/25
CcU-3043	TN648814310514852179535	5969	196	06/07/25
CcU-3050	FR5167744369175836831854477	4834	126	10/09/23
CcU-3057	LU9318225746979545215	6805	848	09/14/25
CcU-3064	PS1469655454925377627273133	3865	498	06/03/25

The status bar at the bottom indicates 'Query Completed'.

Nivell 2

- Exercici 1: eliminar registre

Elimina de la taula transaction el registre amb ID 02C6201E-D90A-1859-B4EE-88D2986D3B02 de la base de dades.

Comencem localitzant aquest regista a la taula

The screenshot shows the MySQL Workbench interface. In the left sidebar under 'SCHEMAS', the 'transactions' schema is selected. In the main pane, a SQL editor window titled 'Sprint 3' contains the following query:

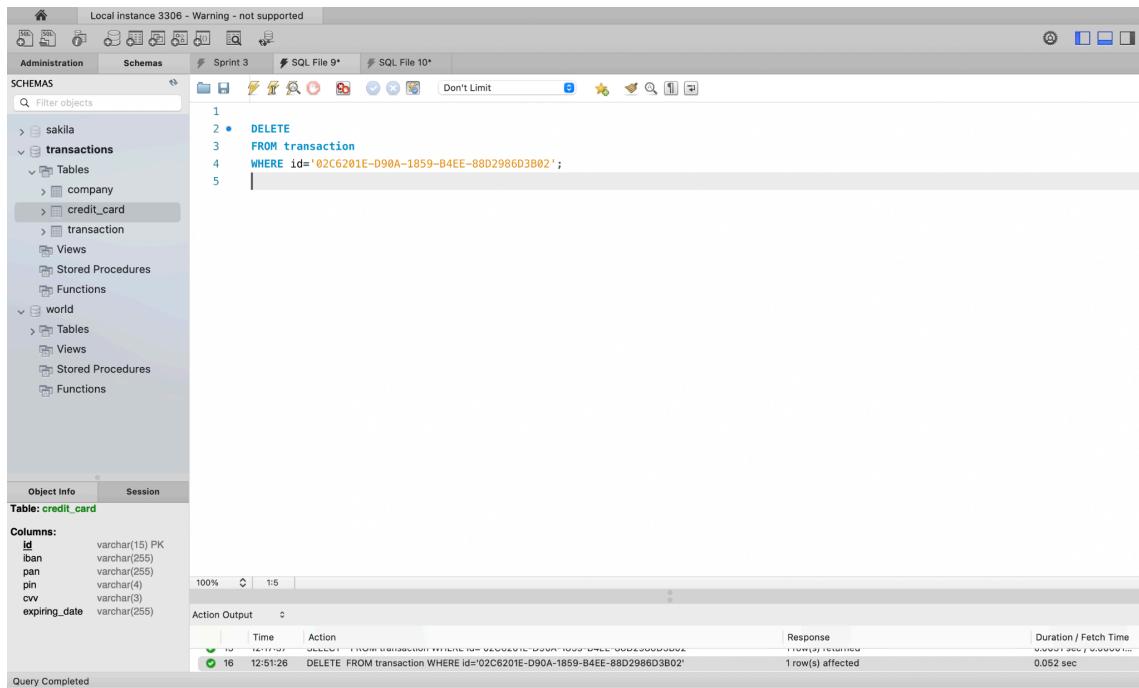
```
1 •  SELECT *
2   FROM transaction
3  WHERE id='02C6201E-D90A-1859-B4EE-88D2986D3B02';
```

Below the query, the 'Result Grid' shows a single row of data from the 'transaction' table:

id	credit_card_id	company_id	user_id	lat	longitude	timestamp	amount	declined
02C6201E-D90A-1859-B4EE-88D2986... NULL	CcU-2938 NULL	b-2362 NULL	92 NULL	81.9185 NULL	-12.5276 NULL	2021-08-28 23:42:24 NULL	466.92 NULL	0 NULL

At the bottom of the interface, the status bar indicates 'Query Completed'.

L'esborrem



The screenshot shows the MySQL Workbench interface. In the top navigation bar, the schema is set to 'transactions'. The main pane displays a SQL editor with the following code:

```
1
2 • DELETE
3   FROM transaction
4   WHERE id='02C6201E-D90A-1859-B4EE-88D2986D3B02';
```

Below the code, the 'Object Info' tab is selected, showing details for the 'credit_card' table. The table has the following columns:

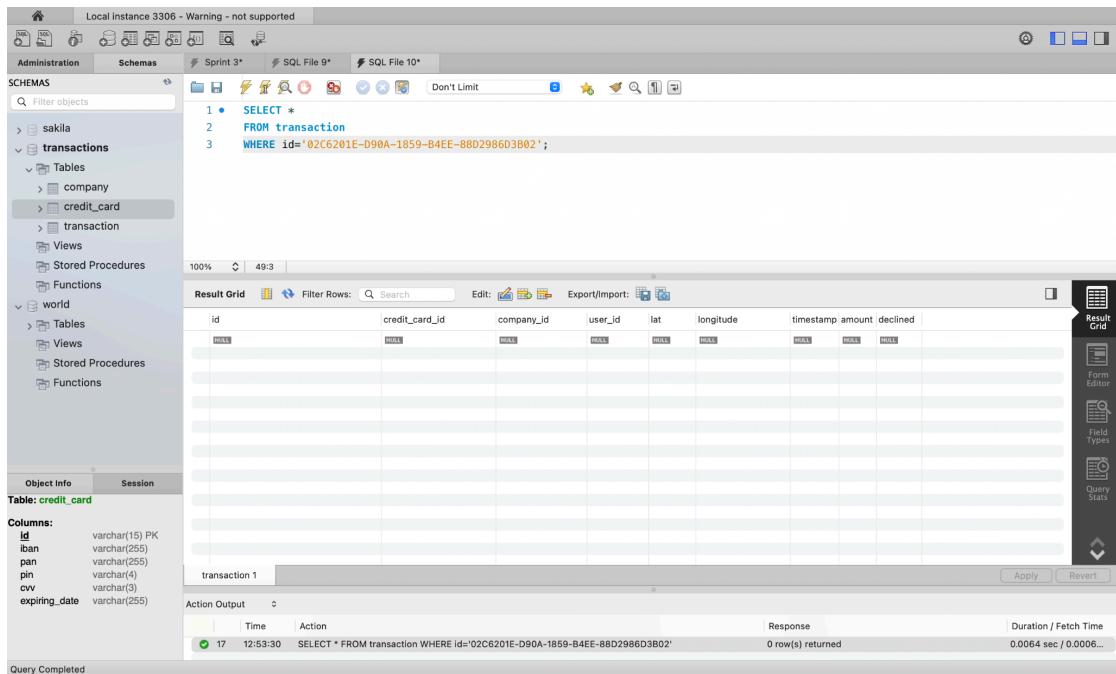
Column	Type
id	varchar(15) PK
iban	varchar(255)
pan	varchar(255)
pin	varchar(4)
cvv	varchar(3)
expiring_date	varchar(255)

The 'Session' tab shows the execution results:

Action Output	Time	Action	Response	Duration / Fetch Time
16	12:51:26	DELETE FROM transaction WHERE id='02C6201E-D90A-1859-B4EE-88D2986D3B02'	1 row(s) affected	0.052 sec

The status bar at the bottom indicates 'Query Completed'.

I comprovem que ja no està



The screenshot shows the MySQL Workbench interface with the schema set to 'transactions'. The main pane displays a SQL editor with the following code:

```
1 • SELECT *
2   FROM transaction
3   WHERE id='02C6201E-D90A-1859-B4EE-88D2986D3B02';
```

The results are displayed in a 'Result Grid' table:

id	credit_card_id	company_id	user_id	lat	longitude	timestamp	amount	declined
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL
transaction 1								

The status bar at the bottom indicates 'Query Completed'.

- Exercici 2: vista

La secció de màrqueting desitja tenir accés a informació específica per a realitzar anàlisi i estratègies efectives. S'ha sol·licitat crear una vista que proporcioni detalls clau sobre les companyies i les seves transaccions. Serà necessària que creïs una vista anomenada VistaMarketing que contingui la següent informació: Nom de la companyia. Telèfon de contacte. País de residència. Mitjana de compra realitzat per cada companyia. Presenta la vista creada, ordenant les dades de major a menor mitjana de compra.

Comencem fent la consulta amb el join

The screenshot shows the MySQL Workbench interface with the following details:

- Schemas:** The schema "sakila" is selected.
- Tables:** The "company" table is selected.
- Query Editor:** A query is being typed:

```
1
2 •  SELECT company.company_name, company.phone, company.country, avg(amount)
3   FROM transaction
4   LEFT JOIN company
5     ON company.id = transaction.company_id
6   WHERE declined = 0
7   GROUP BY company.id
8   ORDER BY avg(amount) DESC;
```
- Result Grid:** The results of the query are displayed in a grid format. The columns are company_name, phone, country, and avg(amount). The data includes rows for various companies like Eget Ipsum Ltd, Sed id Limited, Neque Tellus Incorporated, Nunc Sit Incorporated, Non Magna LLC, Maecenas Malesuada Fringilla Inc., Erat LLP, Tortor Nunc Commodo Company, Justo Eu Arcu Ltd, Pede Cum Ltd, Vestibulum Acorem PC, Maure Institute, Aliquam Diam Limited, Mus Aenean Eget Foundation, Sed LLC, Viverra Donec Foundation, Eget Tincidunt Duis Institute, Amet Institute, Eggestas Nunc Sed Limited, and Result 7.
- Session Tab:** Shows the table structure for "company".

Columns:	
id	varchar(15) PK
company_name	varchar(255)
phone	varchar(15)
email	varchar(100)
country	varchar(100)
website	varchar(255)
- Action Output:** Displays the query log with the last entry:

Action	Time	Response	Duration / Fetch Time
27 13:36:45	SELECT company.company_name, company.phone, company.country, avg(amount) FROM transaction LEFT...	101 row(s) returned	0.0059 sec / 0.00002...

Ara cream la vista i refresquem els schemas per a veure-la

The screenshot shows the MySQL Workbench interface with the 'Schemas' tab selected. In the left sidebar, under the 'transactions' schema, a new view named 'vistamarketing' is being created. The code in the main pane is:

```
1 • CREATE VIEW VistaMarketing AS
2   SELECT company.company_name, company.phone, company.country, avg(amount)
3   FROM transaction
4   LEFT JOIN company
5     ON company.id = transaction.company_id
6   WHERE declined = 0
7   GROUP BY company.id
8   ORDER BY avg(amount) DESC;
```

The 'Object Info' pane at the bottom shows the definition of the 'vistamarketing' view. The 'Session' pane shows a query completed message.

Comprovem cridant la vista

The screenshot shows the MySQL Workbench interface with the 'Schemas' tab selected. A query is run to select from the 'vistamarketing' view:

```
1 • SELECT *
2   FROM vistamarketing;
```

The results grid displays the data returned by the query. The columns are 'company_name', 'phone', 'country', and 'avg(amount)'. The data includes rows for various companies like Eget Ipsum Ltd, Sed id Limited, etc., with their respective details and average amount.

company_name	phone	country	avg(amount)
Eget Ipsum Ltd	03 67 44 56 72	United States	481.860000
Sed id Limited	07 28 18 18 13	United States	477.510000
Neque Tellus Incorporated	04 43 18 34 17	Ireland	477.100000
Nunc Sit Incorporated	07 28 42 13 63	Norway	461.830000
Non Magna LLC	08 71 63 13 17	United Kingdom	458.740000
Maecenas Malesuada Fringilla Inc.	09 88 63 79 81	Netherlands	451.000000
Erat LLP	03 18 88 77 79	Netherlands	448.440000
Turpis Nunc Commodo Company	05 35 02 77 16	United States	447.110000
Justo Eu Arcu Ltd	08 42 56 71 52	Italy	444.160000
Pede Cum Ltd	07 62 26 48 38	Norway	442.320000
Vestibulum Lorem PC	02 02 87 33 40	Belgium	428.400000
Mauris Institute	05 29 60 36 87	Sweden	427.710000
Aliquet Diam Limited	02 76 61 47 46	United States	425.640000
Mus Aspern Eget Foundation	06 25 15 52 43	Sweden	419.970000
Sed LLC	01 63 16 26 52	Belgium	416.660000
Viverra Donec Foundation	03 33 12 32 73	United Kingdom	414.530000
Eget Tincidunt Duis Institute	05 35 93 32 44	Netherlands	413.500000
Amet Institute	06 33 40 21 33	Australia	412.480000
Egestas Nunc Sed Limited	06 01 02 70 47	Italy	406.110000
Elli Etiam Laoreet Associates	07 69 74 17 45	Canada	400.630000
	00 24 65 40 60	Germany	396.150000

The 'Object Info' pane at the bottom shows the definition of the 'vistamarketing' view. The 'Session' pane shows a query completed message.

- Exercici 3: filtrar vista

Filtra la vista VistaMarketing per a mostrar només les companyies que tenen el seu país de residència en "Germany"

Cridem la vista i li apliquem el filtre WHERE com si fos una taula qualsevol

The screenshot shows the MySQL Workbench interface. On the left, the 'Schemas' tree view is open, showing the 'transactions' schema which contains a 'company' table. The 'company' table has columns: id, company_name, phone, email, country, and website. A query is being run in the central SQL editor:

```
1
2 •  SELECT *
3   FROM vistamarketing
4   WHERE country = 'Germany';
5
```

The results are displayed in the 'Result Grid' pane:

company_name	phone	country	avg(amount)
Ac Industries	09 34 65 40 60	Germany	396.150000
Auctor Mauris Corp.	05 62 87 14 41	Germany	308.990000
Ac Fermentum Incorporated	06 85 56 52 33	Germany	293.570000
Aliquam PC	01 45 73 52 16	Germany	280.340000
Rutrum Non Inc.	02 66 31 61 09	Germany	268.900000
Nunc Interdum Incorporated	05 18 15 48 13	Germany	242.947692
Convallis In Incorporated	06 66 57 29 50	Germany	60.990000
Augue Foundation	06 88 43 15 63	Germany	15.050000

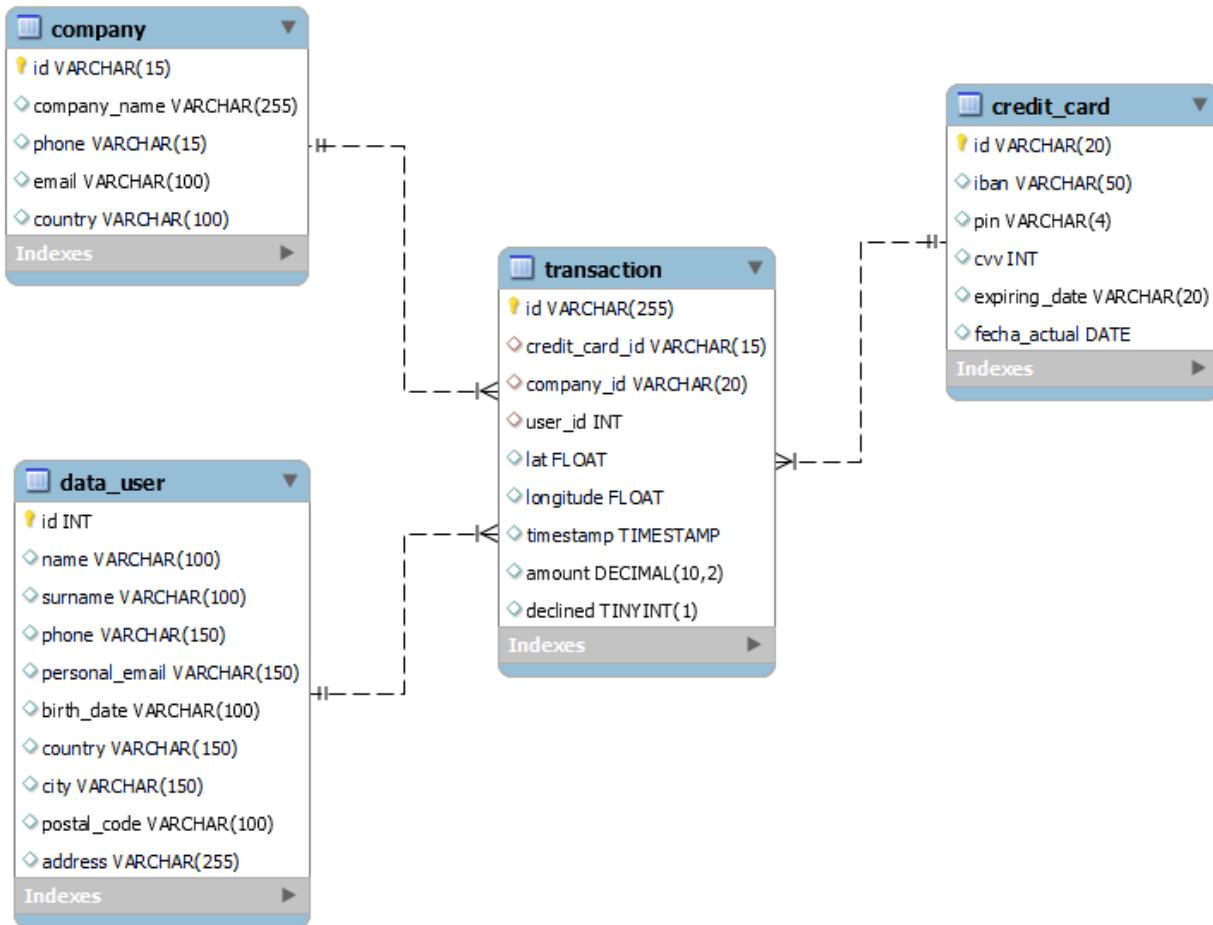
At the bottom, the 'Action Output' pane shows the query log:

Time	Action	Response	Duration / Fetch Time
367 12:39:45	SELECT * FROM vistamarketing WHERE country = 'Germany'	8 row(s) returned	0.010 sec / 0.000007...

Nivell 3

- Exercici 1: modificacions base dades

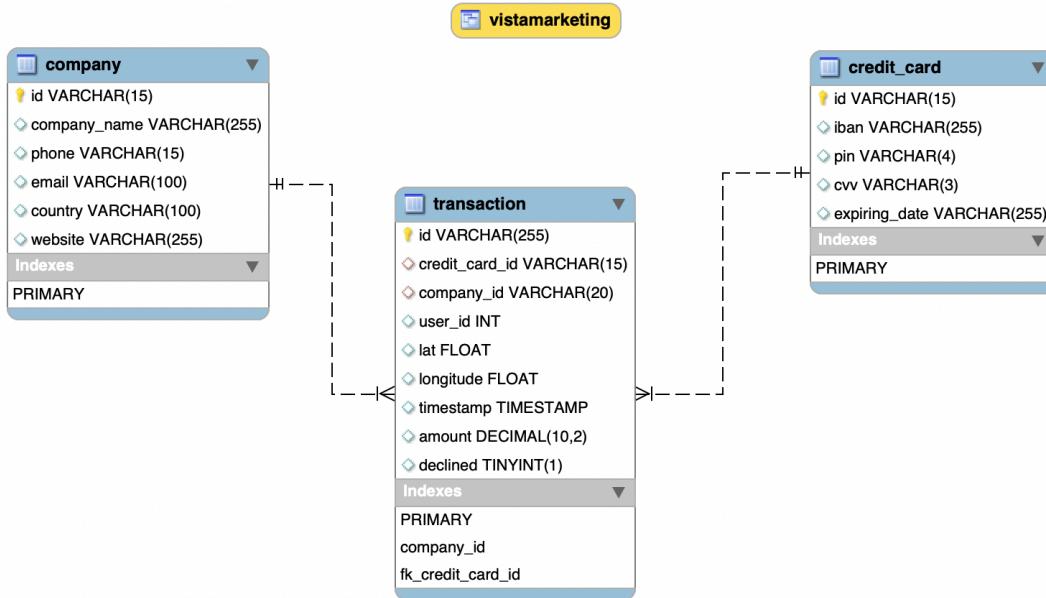
La setmana vinent tindràs una nova reunió amb els gerents de màrqueting. Un company del teu equip va realitzar modificacions en la base de dades, però no recorda com les va realitzar. Et demana que l'ajudis a deixar els comandos executats per a obtenir el següent diagrama:



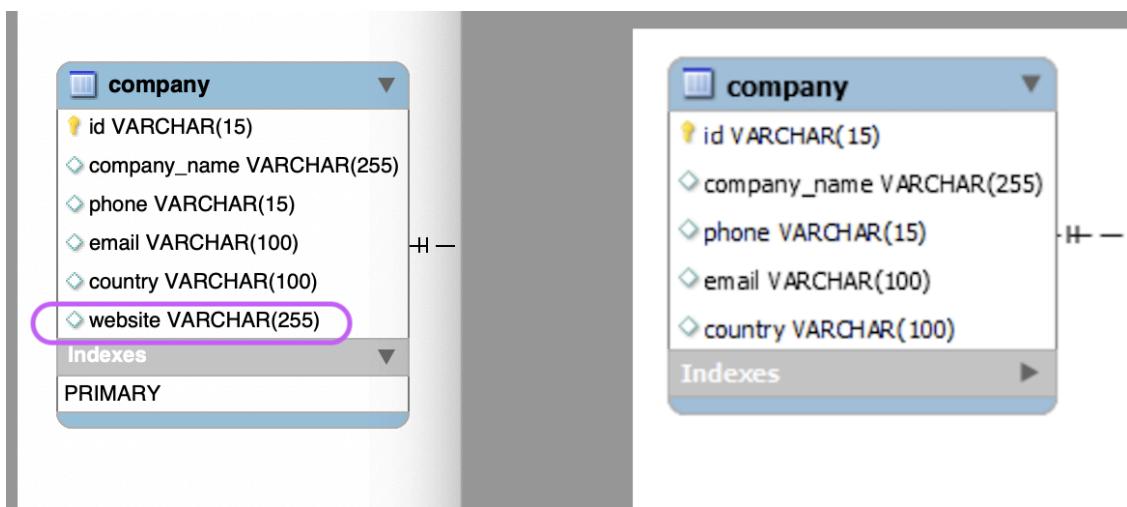
Recordatori

En aquesta activitat, és necessari que descriguis el "pas a pas" de les tasques realitzades. És important realitzar descripcions senzilles, simples i fàcils de comprendre. Per a realitzar aquesta activitat hauràs de treballar amb els arxius denominats "estructura_dades_user" i "dades_introduir_user"

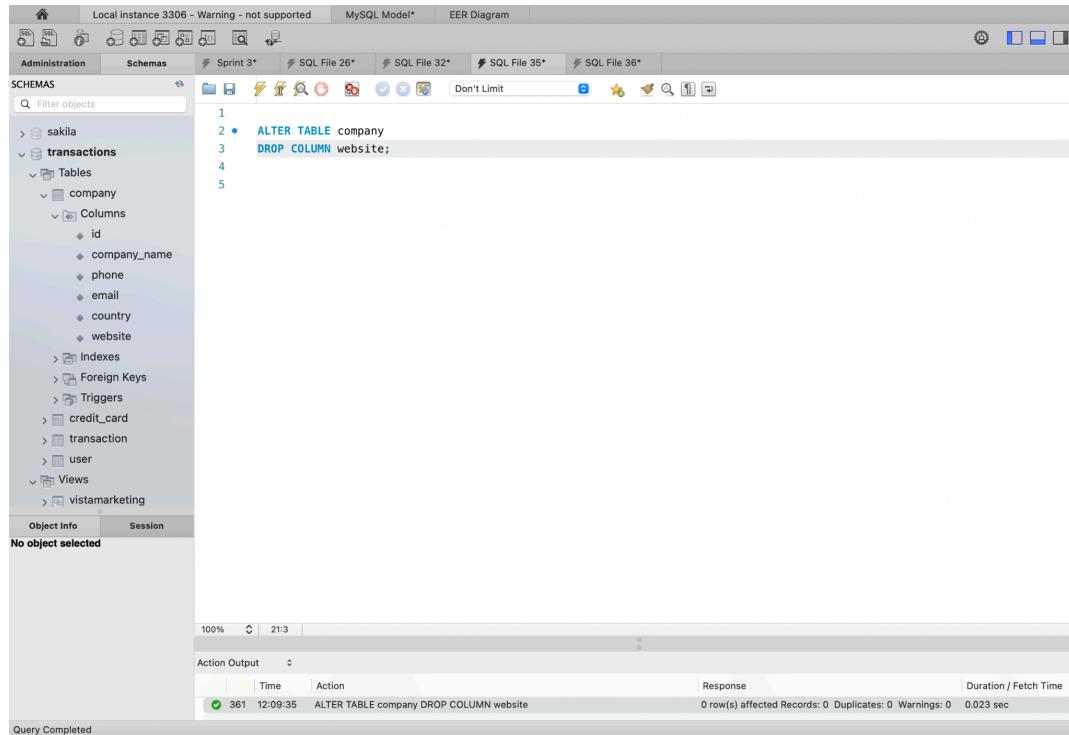
Mirem el diagrama que tenim abans que el company realitzés les modificacions en la base de dades.



* Sembla que el primer que ha fet ha segut eliminar la columna web de la taula company



Els passos per a treure la columna website són els següents. Li diguem que tregui la columna website



```

1
2 • ALTER TABLE company
3 DROP COLUMN website;
4
5

```

The screenshot shows the MySQL Workbench interface. The left sidebar displays the schema structure for the 'transactions' database, specifically the 'company' table. The 'Columns' section lists columns: id, company_name, phone, email, country, and website. The right pane shows the SQL Editor with the following query:

```

1
2 • ALTER TABLE company
3 DROP COLUMN website;
4
5

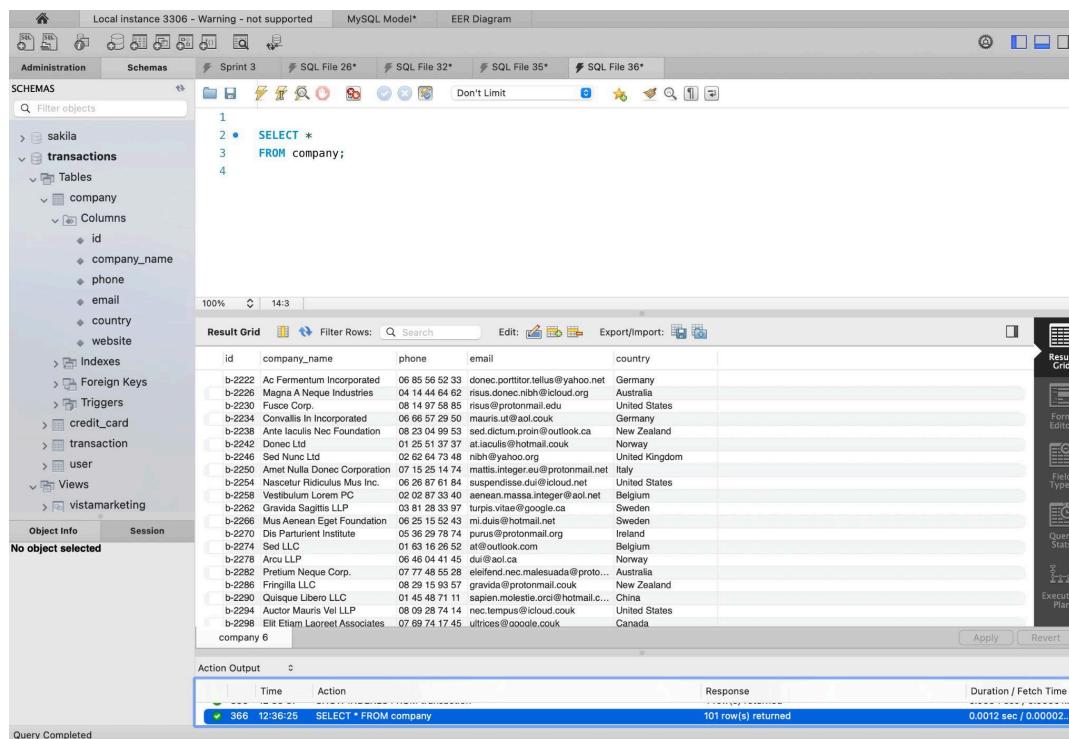
```

Below the editor, the 'Action Output' pane shows the execution details:

Action	Time	Response	Duration / Fetch Time
361 12:09:35	ALTER TABLE company DROP COLUMN website	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0	0.023 sec

The status bar at the bottom indicates "Query Completed".

I comprovem que la columna ja no està

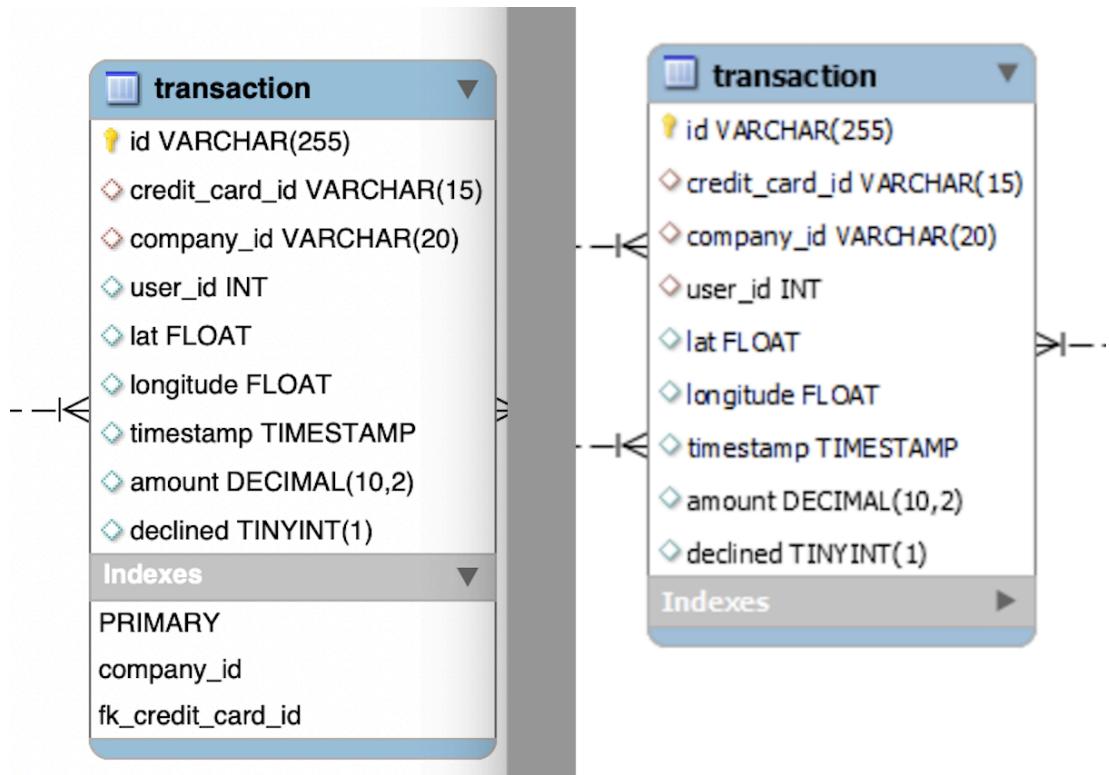


The screenshot shows the MySQL Workbench interface with the 'Result Grid' tab selected. The left sidebar shows the schema structure for the 'transactions' database, with the 'company' table highlighted. The result grid displays the following data:

id	company_name	phone	email	country
b-2222	Ac Fermentum Incorporated	06 85 56 52 33	donec.pottitor.tellus@yahoo.net	Germany
b-2226	Magna A Neque Industries	04 14 44 64 62	risus.donec.nibh@icloud.org	Australia
b-2230	Fusce Corp.	08 14 97 58 85	risus@protonmail.edu	United States
b-2234	Convallis In Incorporated	06 66 57 29 50	mauris.ut@aol.co.uk	Germany
b-2238	Ante Iaculis Nec Foundation	09 23 04 99 53	sed.dictrum.pron@outlook.co...	New Zealand
b-2242	Donec Ltd	01 25 51 37 37	at.iaculis@hotmail.co.uk	Norway
b-2246	Sed Nunc Ltd	02 62 64 73 48	nibh@yahoo.org	United Kingdom
b-2250	Amet Nulla Donec Corporation	07 15 25 14 74	mattis.integer.eu@protonmail.net	Italy
b-2254	Nascetur Ridiculus Mus Inc.	06 20 87 61 84	suspendisse.du@icloud.net	United States
b-2258	Aliquam Lorentz PC	02 05 28 44 52	amet.auctor.massia.integer@aol.net	Bahrain
b-2262	Gravida Sagittis LLP	03 81 26 33 97	amet.viverra.semper.ca	Sweden
b-2266	Mus Aenean Eget Foundation	06 25 15 52 43	mi.duis@hotmail.net	Sweden
b-2270	Dis Parturient Institute	05 36 29 78 74	purus@protonmail.org	Ireland
b-2274	Sed LLC	01 63 16 26 52	at@outlook.com	Belgium
b-2278	Arcu LLP	06 46 04 41 45	du@aol.ca	Norway
b-2282	Pretium Neque Corp.	07 77 48 55 28	tristique.sed@icloud.net	Australia
b-2286	Fringilla LLC	08 29 15 93 57	gravida@protonmail.co.uk	New Zealand
b-2290	Quisque Libero LLC	01 45 48 71 11	sapien.molesta.orci@hotmail.c...	China
b-2294	Auctor Mauris Vel LLP	08 09 28 74 14	nec.tempus@cloud.co.uk	United States
b-2298	Ellit Etiam Laoreet Associates	07 69 17 45 17	ultrices@ooole.co.uk	Canada

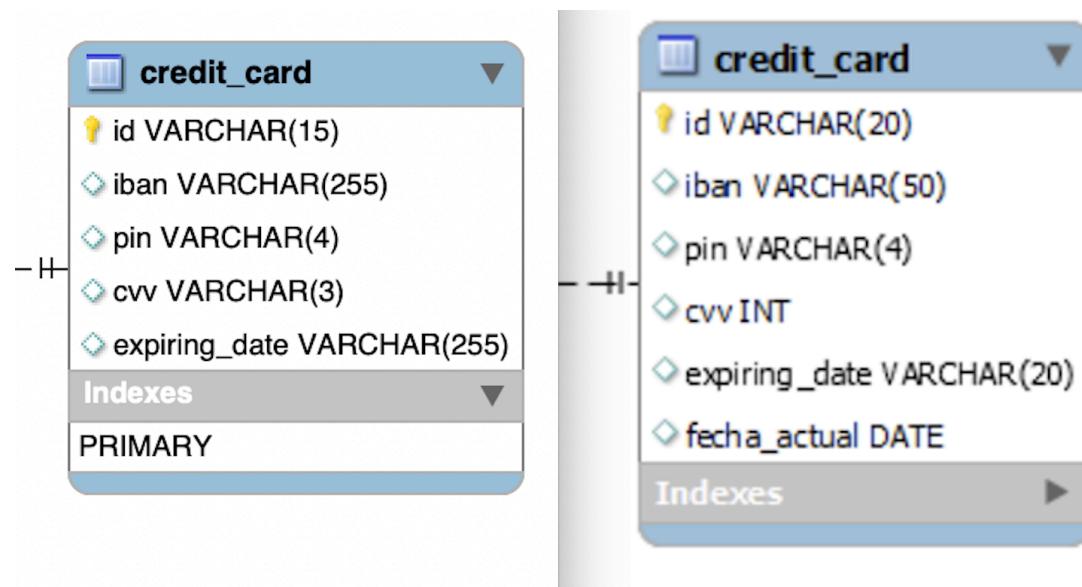
The status bar at the bottom indicates "Query Completed".

La taula transaction no sembla que l'hagin tocat



En la taula credit card:

- El id és de 20 caracters en comptes de 15
- L'iban de 50 caracters en comptes de 255
- El CVV és una variable INT en comptes de VARCHAR(3)
- Data de caducitat és de 20 caracters en comptes de 255
- Ha aparegut una columna nova: fecha actual amb format DATE (sols columna)



Tampoc no apareix la vista de màrqueting, potser està amagada al diagrama o bé l'ha eliminat

Les relacions entre taules sembla que no s'han tocat.

Ara anem a carregar la taula de user amb el codi que ens han passat.

L'índex a la taula transactions sí que ens l'ha creat

The screenshot shows the MySQL Workbench interface. In the left sidebar, under the 'Schemas' section, the 'transactions' schema is selected. Within the 'Tables' section, the 'transaction' table is highlighted. The 'Indexes' tab is open, showing a single index entry:

```
1 -- Creamos la tabla user
2
3 • CREATE INDEX idx_user_id ON transaction(user_id);
4
5
6
7
8
9
```

In the bottom right corner of the interface, there is a message: "Query interrupted".

Mirem quants índex hi ha

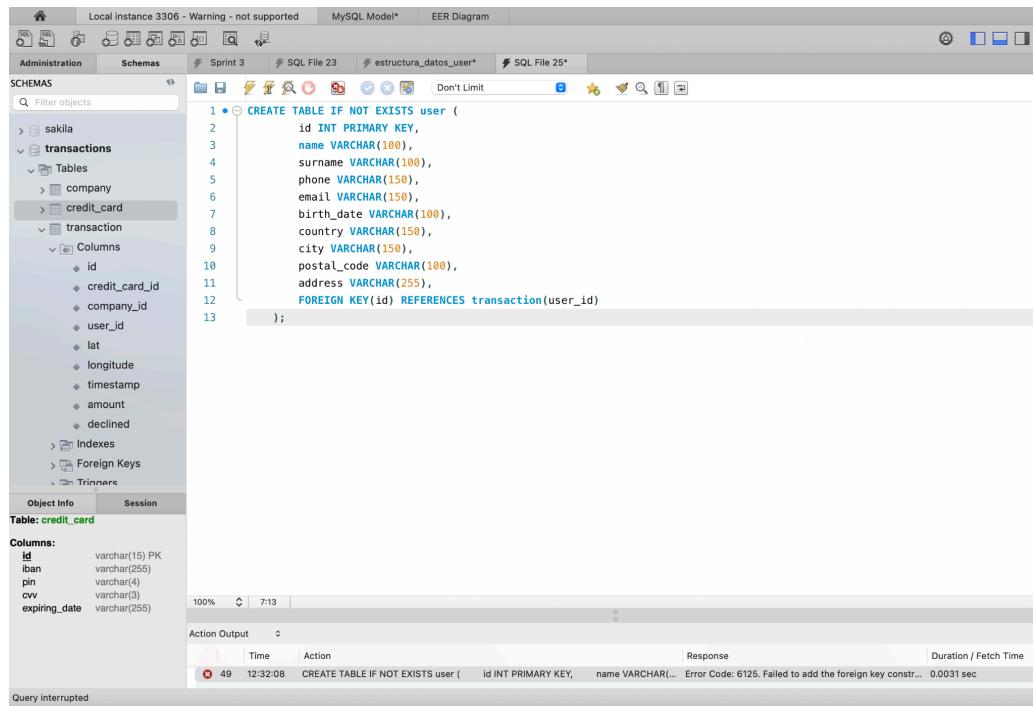
The screenshot shows the MySQL Workbench interface. In the left sidebar, under the 'Schemas' section, the 'transactions' schema is selected. Within the 'Tables' section, the 'transaction' table is highlighted. The 'Indexes' tab is open, showing the results of the 'SHOW INDEXES FROM transaction' query:

Table	Non_Unique	Key_name	Seq_in_Index	Column_name	Collation	Cardinality	Sub_part	Packed	Null	Index_type	Comment	Index_comment	Visible	Expression
transaction	0	PRIMARY	1	id	A	587				BTREE		YES	BTREE	
transaction	1	company_id	1	company_id	A	100				BTREE		YES	BTREE	
transaction	1	fk_credit_card_id	1	credit_card_id	A	275				BTREE		YES	BTREE	
transaction	1	idx_user_id	1	user_id	A	217				BTREE		YES	BTREE	

In the bottom right corner of the interface, there is a message: "Query Completed".

Però a la creació de la taula ens dóna error

Error Code: 6125. Failed to add the foreign key constraint. Missing unique key for constraint 'user_ibfk_1' in the referenced table 'transaction'

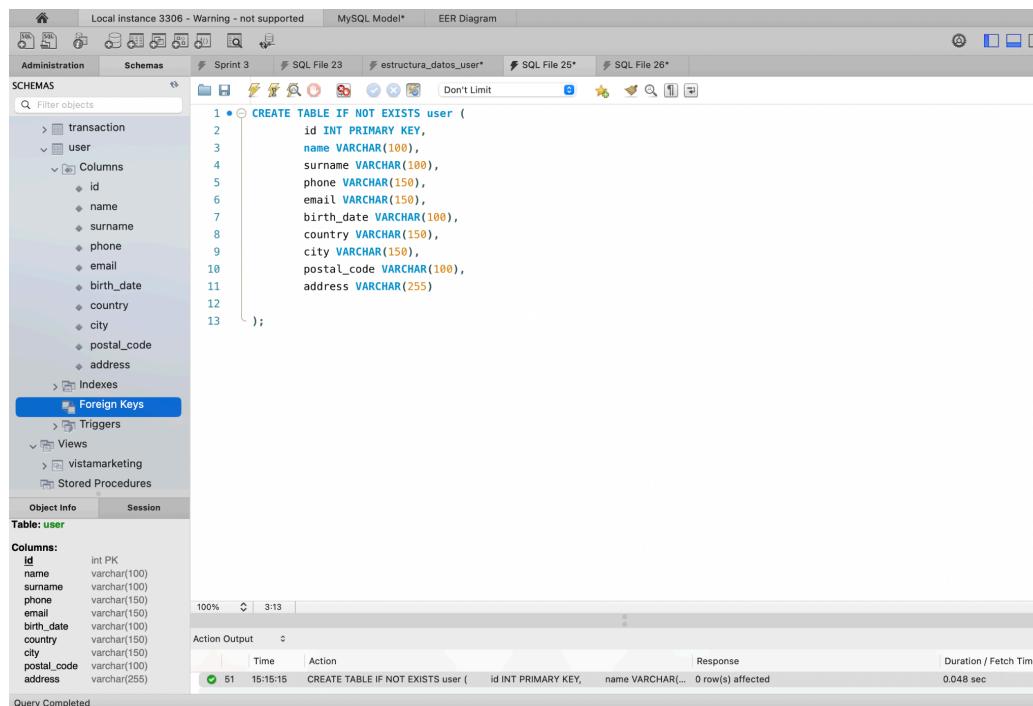


The screenshot shows the MySQL Workbench interface. In the left sidebar, under the 'Schemas' tab, the 'credit_card' table is selected. The main pane displays the SQL code for creating the table:

```
1 • CREATE TABLE IF NOT EXISTS user (
2     id INT PRIMARY KEY,
3     name VARCHAR(100),
4     surname VARCHAR(100),
5     phone VARCHAR(150),
6     email VARCHAR(150),
7     birth_date VARCHAR(100),
8     country VARCHAR(150),
9     city VARCHAR(150),
10    postal_code VARCHAR(100),
11    address VARCHAR(255),
12    FOREIGN KEY(id) REFERENCES transaction(user_id)
13 );
```

The status bar at the bottom indicates 'Query interrupted'.

Així doncs deixem la referència per a després i la creem sense la referència



The screenshot shows the MySQL Workbench interface. In the left sidebar, under the 'Schemas' tab, the 'user' table is selected. The 'Foreign Keys' tab is highlighted. The main pane displays the SQL code for creating the table:

```
1 • CREATE TABLE IF NOT EXISTS user (
2     id INT PRIMARY KEY,
3     name VARCHAR(100),
4     surname VARCHAR(100),
5     phone VARCHAR(150),
6     email VARCHAR(150),
7     birth_date VARCHAR(100),
8     country VARCHAR(150),
9     city VARCHAR(150),
10    postal_code VARCHAR(100),
11    address VARCHAR(255)
12 );
13 );
```

The status bar at the bottom indicates 'Query Completed'.

Ara afegim les dades de la taula. Veiem que l'arxiu que ens han passat desactiva i activa les foreign keys abans i després de les dades, i tenim clar que això no hi hauriem de fer. Comentarem aquests comandaments i li donem a executar

```

1 * SET foreign_key_checks = 0;
2
3 -- Insertamos datos de user
4 • INSERT INTO user (id, name, surname, phone, email, birth_date, country, city, postal_code, address) VALUES (
5 •     1, "Zeus", "Gamble", "1-282-561-0561", "interdum.anim@protonmail.edu", "Nov 17, 1985", "United States", "Lowell", "735-44", "348-7819 Sagittis St.",
6 •     2, "Garrett", "Mcconnell", "(718) 257-2412", "integer.vitae.nisi@protonmail.org", "Aug 23, 1992", "United States", "Des Moines", "59464", "903 Sit Ave",
7 •     3, "Ciaran", "Harrison", "(522) 598-1965", "interdum.feugiat@aol.org", "Apr 29, 1998", "United States", "Columbus", "56518", "736-2063 Tellus St.",
8 •     4, "Howard", "Stafford", "1-411-740-3269", "omarne.agestas@cloud.edu", "Feb 18, 1989", "United States", "Kallua", "77417", "Ap #545-2244 Erat. Rd.",
9 •     5, "Hayfe", "Pierce", "1-554-541-2077", "et.malesuada.fames@hotmail.org", "Sep 26, 1998", "United States", "Sandy", "31564", "341-2821 Ultrices Av.",
10 •    6, "Joan", "Tyson", "(718) 257-2412", "gringos.dicibus@yah0o.ca", "Oct 15, 1991", "United States", "Nashville", "96874", "887-2451 Amet Street",
11 •    7, "Rafael", "Almaz", "(692) 157-3469", "egestas.aliquam.fringilla@google.ca", "Aug 1, 1993", "United States", "Jackson", "61750", "Ap #251-7144 Integer St.",
12 •    8, "Nissim", "Frank", "(550) 883-2184", "aliquam.nisi@outlook.com", "Jan 24, 1987", "United States", "Richmond", "35987", "647-3093 Lucus St.",
13 •    9, "Mannix", "Moilan", "(324) 746-6771", "fermentum@protonmail.com", "Apr 30, 1984", "United States", "Eugene", "85525", "P.O. Box 773, 3594 Omare St.",
14 •   10, "Robert", "McCarthy", "(981) 428-8106", "et@outlook.net", "Feb 25, 1990", "United States", "Lincoln", "35211", "P.O. Box 687, 8917 Ligula St.",
15 •   11, "Joan", "Bard", "1-515-824-2855", "incident.donec.vitae@hotmail.com", "Aug 6, 1990", "United States", "Lewiston", "92398", "748-8694 Porttitor Avenue",
16 •   12, "Benedict", "Wheeler", "1-282-561-0561", "punctum@protonmail.com", "Mar 9, 1990", "United States", "Keeney", "14944", "4-001-1111-2222-3333",
17 •   13, "Allegria", "Finn", "1-351-1648-0333", "allegria@outlook.net", "Dec 27, 1990", "United States", "Vivamus", "29688", "P.O. Box 865, 4097 Ante St.",
18 •   14, "Noelani", "Pinn", "1-723-488-5894", "sem.magna@google.com", "Sep 17, 1993", "United States", "Orlando", "47987", "506-5044 Sapien Street",
19 •   15, "Eric", "Roth", "1-216-549-2825", "lorem.sit@yahoo.net", "Sep 7, 1988", "United States", "Reading", "96697", "P.O. Box 51, 5137 Non Road",
20 •   16, "Korey", "Kilmer", "(657) 779-2438", "libero.dui@hotmail.com", "Mar 4, 1996", "United States", "Davenport", "43411", "Ap #836-9508 Vitae, Ave",
21 •   17, "Hollie", "Reeves", "(241) 759-9754", "ullamcorper.sed@outlook.com", "Aug 26, 1993", "United States", "Hattiesburg", "75647", "4095 Quam Rd.",
22 •   18, "Allistar", "Holmes", "1-265-323-0812", "dictum.tempor.est@protonmail.com", "May 22, 1987", "United States", "Gulffrontier", "50250", "829-5044 Nulla Etiam St.",
23 •   19, "Kelsie", "Bass", "1-837-832-5631", "consequat@google.ca", "Nov 5, 1990", "United States", "Montpelier", "85914", "Ap #794-4229 Ante Rd.",
24 •   20, "Nolan", "Cash", "(273) 334-3785", "nam@hotmail.com", "Apr 2, 1990", "United States", "Jefferson", "97237", "407-7982 A. Road",
25 •   21, "Wanda", "Campbell", "(702) 825-5635", "sagittis@google.co.uk", "Sep 9, 1990", "United States", "Owensboro", "61259", "501-2735 Luctus, Rd.",
26 •   22, "Aquila", "Strickland", "1-246-231-5498", "anim.sit@cloud.com", "May 31, 1999", "United States", "San Jose", "88668", "Ap #337-8747 Auctor. Ave",
27 •   23, "Diana", "Williamson", "1-600-588-7770", "id.nunc@euroglobe.com", "Sep 28, 1982", "United States", "Colchester", "26637", "Ap #280-4612 Massa Road",
28 •   24, "Climo", "Cain", "1-600-588-7770", "nec.metus.facilisis@google.org", "Dec 1, 1990", "United States", "Keeney", "93484", "364-1111-2222-3333",
29 •   25, "Deacon", "Sharp", "(312) 529-1643", "hendrerit@cloud.net", "Oct 13, 1989", "United States", "Columbus", "29205", "P.O. Box 585, 4446 Suspend...",
30 •   26, "Korey", "Kilmer", "1-351-1648-0333", "allegria@outlook.net", "Sep 19, 1979", "United States", "Naperville", "63987", "672-9145 Ultamcorper, Ave

```

I mirem a veure quina forma té la taula que ens ha quedat

	id	name	surname	phone	email	birth_date	country	city	postal_code	address
1	1	Zeus	Gamble	1-282-561-0561	interdum.anim@protonmail.edu	Nov 17, 1985	United States	Lowell	735-44	348-7819 Sagittis St.
2	2	Garrett	Mcconnell	(718) 257-2412	integer.vitae.nisi@protonmail.org	Aug 23, 1992	United States	Des Moines	59464	903 Sit Ave
3	3	Ciaran	Harrison	(522) 598-1965	interdum.feugiat@aol.org	Apr 29, 1998	United States	Columbus	56518	736-2063 Tellus St.
4	4	Howard	Stafford	1-411-740-3269	omarne.agestas@cloud.edu	Feb 18, 1989	United States	Kallua	77417	Ap #545-2244 Erat. Rd.
5	5	Hayfe	Pierce	1-554-541-2077	et.malesuada.fames@hotmail.org	Sep 26, 1998	United States	Sandy	31564	341-2821 Ultrices Av.
6	6	Joan	Tyson	(718) 257-2412	gringos.dicibus@yah0o.ca	Oct 15, 1991	United States	Nashville	96874	887-2451 Amet Street
7	7	Rafael	Almaz	(692) 157-3469	egestas.aliquam.fringilla@google.ca	Aug 1, 1993	United States	Jackson	61750	Ap #251-7144 Integer St.
8	8	Nissim	Frank	(550) 883-2184	aliquam.nisi@outlook.com	Jan 24, 1987	United States	Richmond	35987	647-3093 Lucus St.
9	9	Mannix	Moilan	(324) 746-6771	fermentum@protonmail.com	Apr 30, 1984	United States	Eugene	85525	P.O. Box 773, 3594 Omare St.
10	10	Robert	McCarthy	(981) 428-8106	et@outlook.net	Feb 25, 1990	United States	Lincoln	35211	P.O. Box 687, 8917 Ligula St.
11	11	Joan	Bard	1-515-824-2855	incident.donec.vitae@hotmail.com	Aug 6, 1990	United States	Lewiston	92398	748-8694 Porttitor Avenue
12	12	Benedict	Wheeler	1-282-561-0561	punctum@protonmail.com	Mar 9, 1990	United States	Keeney	14944	4-001-1111-2222-3333
13	13	Allegria	Finn	1-351-1648-0333	allegria@outlook.net	Dec 27, 1990	United States	Vivamus	29688	P.O. Box 865, 4097 Ante St.
14	14	Noelani	Pinn	1-723-488-5894	sem.magna@google.com	Sep 17, 1993	United States	Orlando	47987	506-5044 Sapien Street
15	15	Eric	Roth	1-216-549-2825	lorem.sit@yahoo.net	Sep 7, 1988	United States	Reading	96697	P.O. Box 51, 5137 Non Road
16	16	Korey	Kilmer	(657) 779-2438	libero.dui@hotmail.com	Mar 4, 1996	United States	Davenport	43411	Ap #836-9508 Vitae, Ave
17	17	Hollie	Reeves	(241) 759-9754	ullamcorper.sed@outlook.com	Aug 26, 1993	United States	Hattiesburg	75647	4095 Quam Rd.
18	18	Allistar	Holmes	1-265-323-0812	dictum.tempor.est@protonmail.com	May 22, 1987	United States	Gulffrontier	50250	829-5044 Nulla Etiam St.
19	19	Kelsie	Bass	1-837-832-5631	consequat@google.ca	Nov 5, 1990	United States	Montpelier	85914	Ap #794-4229 Ante Rd.
20	20	Nolan	Cash	(273) 334-3785	nam@hotmail.com	Apr 2, 1990	United States	Jefferson	97237	407-7982 A. Road
21	21	Wanda	Campbell	(702) 825-5635	sagittis@google.co.uk	Sep 9, 1990	United States	Owensboro	61259	501-2735 Luctus, Rd.
22	22	Aquila	Strickland	1-246-231-5498	anim.sit@cloud.com	May 31, 1999	United States	San Jose	88668	Ap #337-8747 Auctor. Ave
23	23	Diana	Williamson	1-600-588-7770	id.nunc@euroglobe.com	Sep 28, 1982	United States	Colchester	26637	Ap #280-4612 Massa Road
24	24	Climo	Cain	1-600-588-7770	nec.metus.facilisis@google.org	Dec 1, 1990	United States	Keeney	93484	364-1111-2222-3333
25	25	Deacon	Sharp	(312) 529-1643	hendrerit@cloud.net	Oct 13, 1989	United States	Columbus	29205	P.O. Box 585, 4446 Suspend...
26	26	Korey	Kilmer	1-351-1648-0333	allegria@outlook.net	Sep 19, 1979	United States	Naperville	63987	672-9145 Ultamcorper, Ave

Ara intentem enllaçar les taules i ens continua donant error

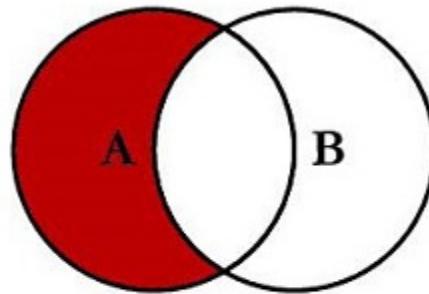
```
Error Code: 1452. Cannot add or update a child row: a foreign key  
constraint fails (`transactions`.`#sql-3ed_9`, CONSTRAINT  
`fk_user_id` FOREIGN KEY (`user_id`) REFERENCES `user` (`id`) ON  
DELETE CASCADE ON UPDATE CASCADE)      0.085 sec
```

The screenshot shows the MySQL Workbench interface. On the left, the schema browser displays the 'transactions' table under the 'sakila' database, specifically focusing on the 'Columns' section where the 'user_id' column is selected. The main pane shows the following SQL query:

```
1  
2 • alter table transaction add constraint fk_user_id foreign key (user_id)  
3   references user (id) on delete cascade on update cascade;
```

The status bar at the bottom indicates "Query interrupted".

Mirarem quants registres de transaction no estan en user



```
SELECT <select_list>
FROM TableA A
LEFT JOIN TableB B
ON A.Key = B.Key
WHERE B.Key IS NULL
```

i sembla que hi ha un

Local instance 3306 - Warning - not supported MySQL Model* EER Diagram

Administration Schemas Sprint 3 SQL File 26* SQL File 32*

SCHEMAS sakila transactions

Tables company credit_card transaction

Columns id credit_card_id company_id user_id lat longitude timestamp amount declined

Indexes Foreign Keys Triggers

Object Info Session

Column: user_id

Definition: user_id int

Result Grid Filter Rows: Search Export:

Taula_transaction	taula_user
9999	null

Action Output Time Action Response Duration / Fetch Time

354 10:35:51 SELECT transaction.user_id as Taula_transaction, user.id AS taula_user FROM trans... 1 row(s) returned 0.0030 sec / 0.0000...

Query Completed

L'afegirem doncs en la taula users, on han d'estar tots els ids de usuari.

The screenshot shows the MySQL Workbench interface. On the left, the 'Schemas' tree view shows the 'transactions' schema with its tables: company, credit_card, transaction, and user. The 'user' table is selected, showing columns: id, name, surname, phone, email, birth_date, country, city, postal_code, and address. On the right, the SQL editor contains the following code:

```
1
2 • INSERT into user (id)
3     VALUES ('9999');
```

The status bar at the bottom indicates 'Query Completed'.

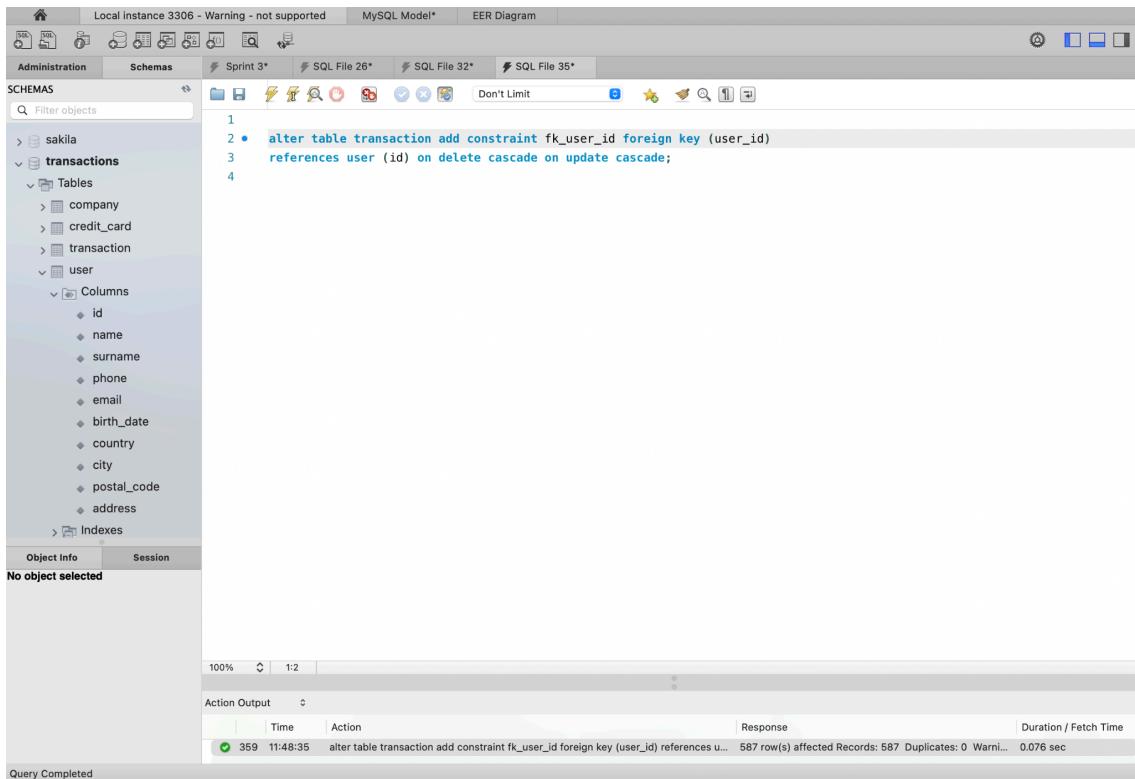
I comprovem que ara no hi ha res que no estigui a la taula user

The screenshot shows the MySQL Workbench interface. On the left, the 'Schemas' tree view shows the 'transactions' schema with its tables: company, credit_card, transaction, and user. The 'transaction' table is selected, showing columns: id, company_name, phone, email, country, and website. On the right, the SQL editor contains the following code:

```
1
2 • SELECT transaction.user_id AS Taula_transaction, user.id AS taula_user
3   FROM transaction
4   LEFT JOIN user
5     ON transaction.user_id = user.id
6   WHERE user.id IS NULL;
```

The results grid below shows a single row with the title 'Result Grid' and columns 'Taula_transaction' and 'taula_user'. The status bar at the bottom indicates 'Query Completed'.

I tornem a intentar enllaçar les taules, ara si que ens deixa

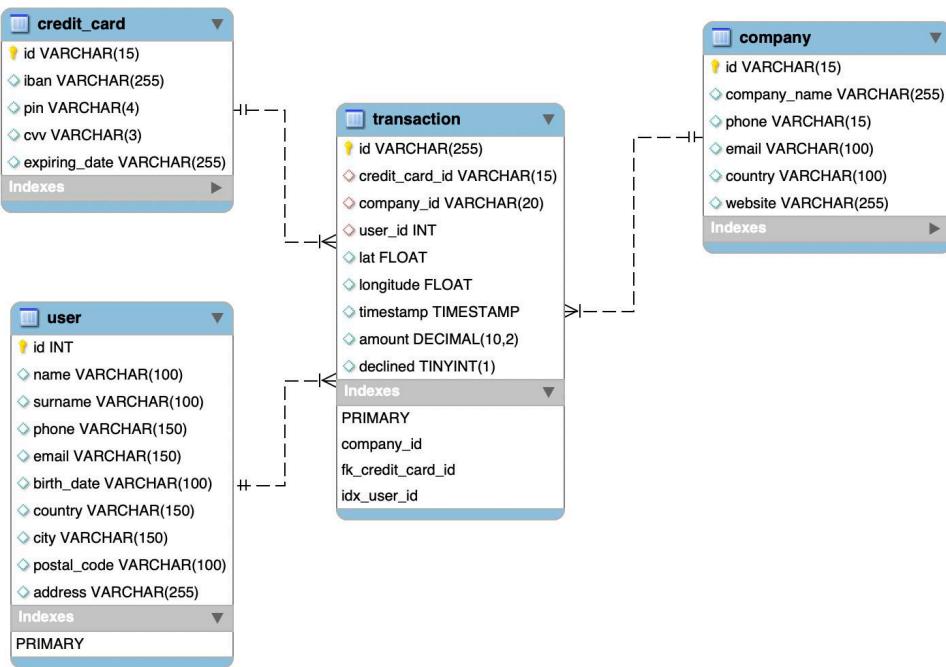


The screenshot shows the MySQL Workbench interface. The left sidebar displays the database schema with the 'transaction' schema selected. Under 'Tables', the 'user' table is expanded, showing its columns: id, name, surname, phone, email, birth_date, country, city, postal_code, and address. The main area contains the following SQL code:

```
1
2 • alter table transaction add constraint fk_user_id foreign key (user_id)
3 references user (id) on delete cascade on update cascade;
4
```

The status bar at the bottom indicates the query was completed successfully with a duration of 0.076 seconds.

Fem una ullada al diagrama per a comprovar que s'ha afegit la relació



- Exercici 2: informe técnico

L'empresa també et sol·licita crear una vista anomenada "InformeTecnico" que contingui la següent informació:

- ID de la transacció
- Nom de l'usuari/ària
- Cognom de l'usuari/ària
- IBAN de la targeta de crèdit usada.
- Nom de la companyia de la transacció realitzada.
- Assegura't d'incloure informació rellevant de totes dues taules i utilitza àlies per a canviar de nom columnes segons sigui necessari.

Mostra els resultats de la vista, ordena els resultats de manera descendente en funció de la variable ID de transaction.

```
SELECT *
transaction.id
JOIN transaction.user_id per a nom i cognom
JOIN transaction.credit_card_id per a IBAN
JOIN company per a company.company_name

ORDER BY transaction.id DESC
```