

# SPRINT 3

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## Tabla de contenido

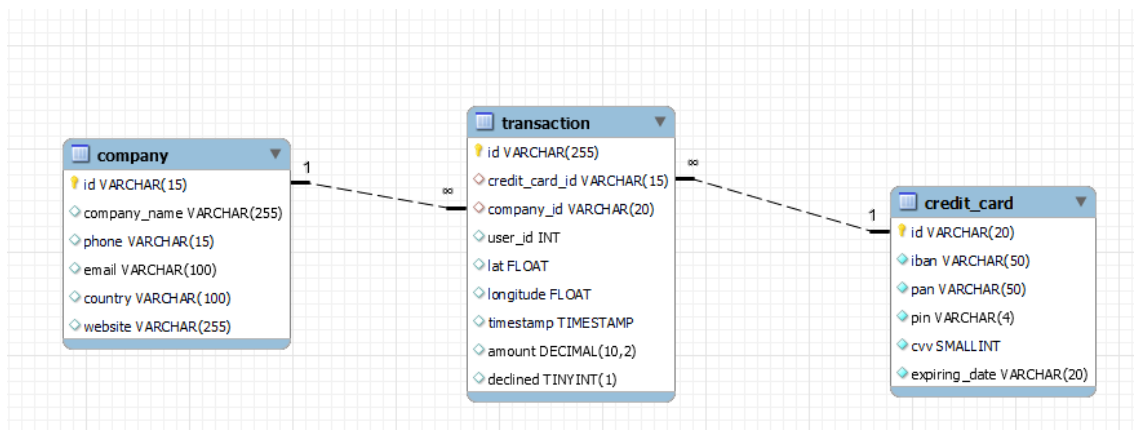
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Nivell 1 .....	2
Exercici 1 .....	2
Exercici 2 .....	4
Exercici 3 .....	5
Exercici 4 .....	6
Nivell 2 .....	7
Exercici 1 .....	7
Exercici 2 .....	8
Exercici 3 .....	9
Nivell 3 .....	9
Exercici 1 .....	9
Exercici 2 .....	14

## Nivell 1

### Exercici 1

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.



Es una taula de 275 lines i 7 columnes les quals son:

- **Id:** Es l'identificador de la tarja de credit. Aquest camp es la clau primaria, no pot ser null i ha de ser únic, aixó vol dir que no es pot quedar el registre en blanc ni es pot repetir. Originalment havia posat UNIQUE, pero si es PK es unic sempre.
- **Iban:** Es el codi internacional de compte bancari. Es un codi alfanúmeric que identifica un compte bancari a qualsevol lloc del món. També hauria de ser Not Null i Unique.
- **Pan:** es l'acrònim de personal account number i es el número que apareix a la tarja de crèdit. També hauria de ser Not Null i Unique.
- **Pin:** o personal identification number es la teva clau per entrar al teu compte. Aquest camp hauria de ser Not Null.
- **Cvv:** codi valor de verificación. Es un número que hi darrera de la tarja i que et demanem per seguretat. Aquest camp hauria de ser Not Null.
- **Expiring\_date** La data de caducitat de la tarja. Al igual que el cvv es demana sovint a les transaccions per seguretat. Aquest camp hauria de ser Not Null.
- **Current\_date:** la data actual.

Column Name	Datatype	PK	NN	UQ	B	UN	ZF	AI	G	Default/Expression
id	VARCHAR(15)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
iban	VARCHAR(50)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
pin	VARCHAR(4)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
cvv	INT	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
expiring_date	VARCHAR(20)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
fecha_actual	DATE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NULL

Per crear aquesta taula fem servir el següent codi sql i després importem les dades del document datos\_introducir\_user manualment.

```
CREATE TABLE credit_card (
    id VARCHAR(20) NOT NULL PRIMARY KEY,
    iban VARCHAR(50) NOT NULL,
    pan VARCHAR(50) NOT NULL,
    pin VARCHAR(4) NOT NULL,
    cvv SMALLINT NOT NULL,
    expiring_date VARCHAR(20) NOT NULL,
    current_date DATE
);
```

A continuació comprovem que tenim les dades importades correctament amb SELECT \* FROM credit\_card;

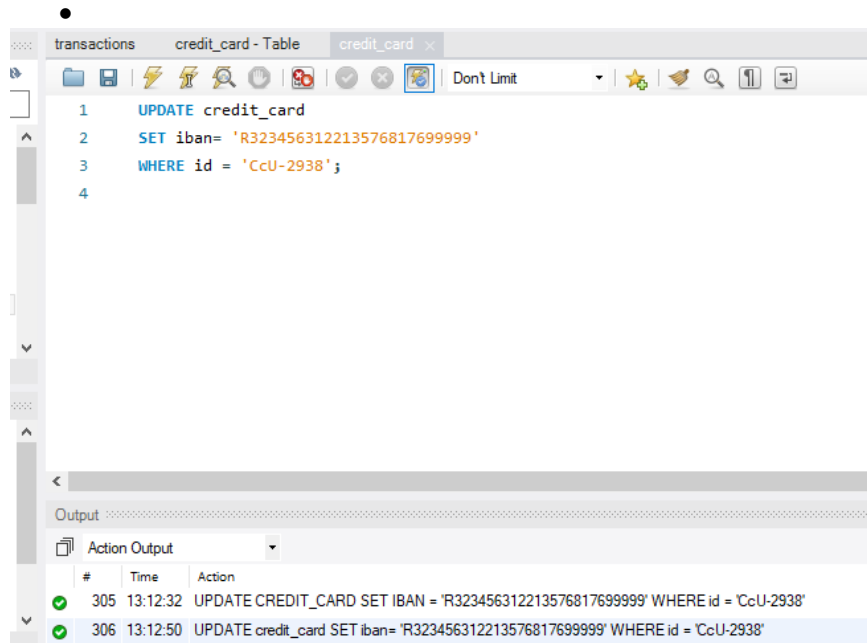
id	iban	pan	pin	cvv	expiring_date
CcU-2959	CR7242477244335841535	372461377349375	3583	667	02/24/23
CcU-2966	BG72LKTQ15627628377363	448566 886747 7265	4900	130	10/29/24
CcU-2973	PT87806228135092429456346	544 58654 54343 384	8760	887	01/30/25
CcU-2980	DE39241881883086277136	402400 7145845969	5075	596	07/24/22
CcU-2987	GE89681434837748781813	3763 747687 76666	2298	797	10/31/23
CcU-2994	BH62714428368066765294	344283273252593	7545	595	02/28/22
CcU-3001	CY49087426654774581266832110	511722 924833 2244	9562	867	09/16/22
CcU-3008	LU507216693616119230	4485744464433884	1856	740	04/05/25
CcU-3015	PS119398216295715968342456821	3784 662233 17389	3246	822	01/31/22
CcU-3022	GT91695162850556977423121857	5164 1379 4842 3951	5610	342	04/25/25
CcU-3029	AZ62317413982441418123739746	3429 279566 77631	9708	505	09/02/23
CcU-3036	AZ39336002925842865843941994	3768 451556 48766	2232	565	10/27/25
CcU-3043	TN6488143310514852179535	455676 6437463635	5969	196	06/07/25
CcU-3050	FR5167744369175836831854477	4024007123722	4834	126	10/09/23
CcU-3057	LU931822574697545215	3484 621767 21237	6805	848	09/14/25
CcU-3064	PS146965545449253377627273133	3467 732741 26810	3865	498	06/03/25
CcU-3071	NO8923814763512	3464 789562 23352	6625	661	12/20/23
CcU-3078	IS025127145884623279548733	4539 322 74 2377	9405	720	03/08/23
CcU-3085	BE63114723972437	5266 3346 1135 1687	7241	413	05/10/23
CcU-3092	RO65LSD1166122125447487	3488 754223 46253	9417	594	12/19/22
CcU-3099	PT26105275356823705537218	448 55418 98863 789	5612	564	01/22/23
CcU-3106	AT684251637751136592	349547146395283	9733	209	01/27/24
CcU-3113	IE26LCGT47732173572752	341834822877471	9011	287	06/12/21
CcU-3120	RS72655766666166237144	527646 533375 6577	7658	265	01/16/21
CcU-3127	PT83533461438644342816864	4716 443 46 4368	8038	924	01/16/23
CcU-3134	BG23MYJQ52668951824779	5146 3453 9766 2168	7260	935	08/24/25

Creem index per que sigui més fácil de cercar tot

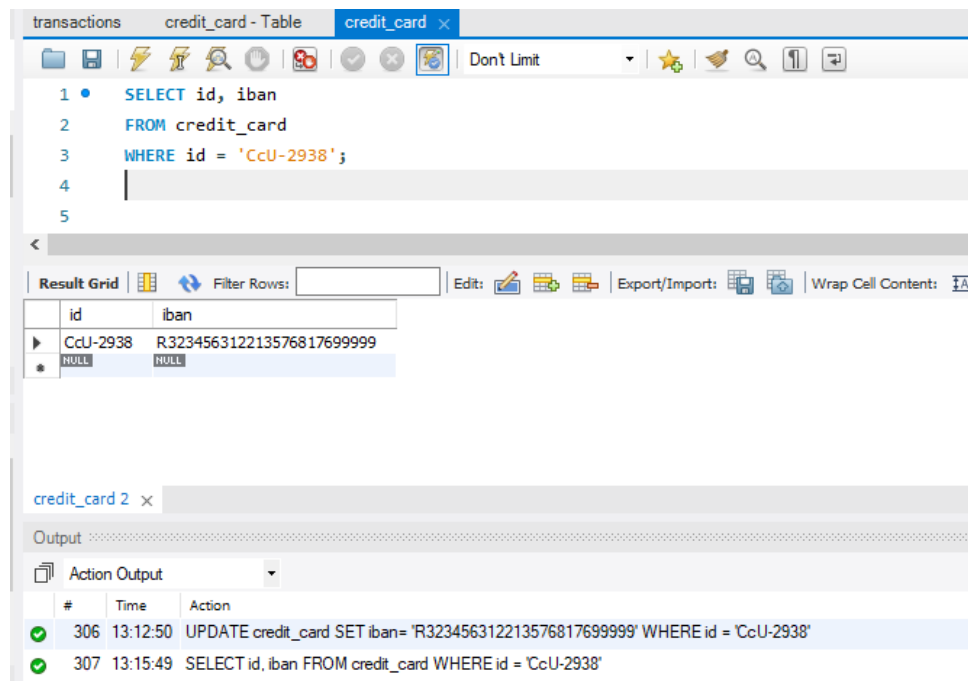
```
vistamarketing  sprint3RLM*  company  credit_card  transaction x transaction - Table
CREATE INDEX idx_transaction_company_id ON transaction(company_id);
CREATE INDEX idx_transaction_credit_card_id ON transaction(credit_card_id);
CREATE INDEX idx_transaction_timestamp ON transaction(timestamp);
CREATE INDEX idx_transaction_declined ON transaction(declined);
ALTER TABLE transaction
ADD CONSTRAINT fk_transaction_company FOREIGN KEY (company_id) REFERENCES
company(id),
ADD CONSTRAINT fk_transaction_credit_card FOREIGN KEY (credit_card_id)
REFERENCES credit_card(id);
```

## Exercici 2

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.



Per verificar que s'ha realitzat el canvi



## Exercici 3

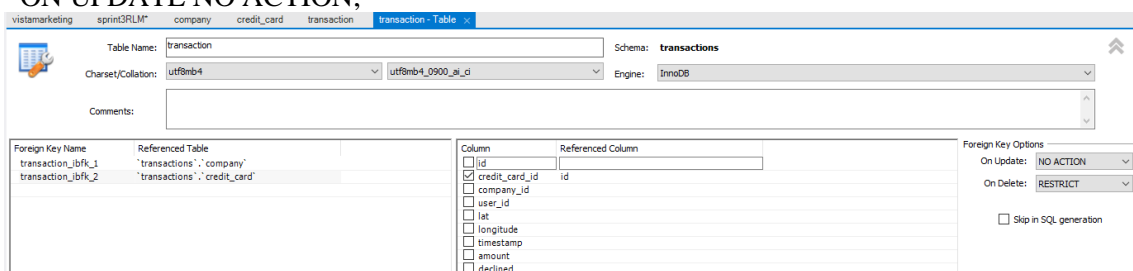
En la taula "transaction" ingressa un nou usuari amb la següent informació:

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

- INSERT INTO transaction (id, credit\_card\_id, company\_id, user\_id, lat, longitude, amount, declined)
- VALUES
- ('108B1D1D-5B23-A76C-55EF-C568E49A99DD','CcU-9999', 'b-9999', 9999, '829.999', '-117.999', 111.11, 0);
- 

Com em donaba error, he modificat el restrict de la taula per un no action i llavors ho he aconseguit

```
ALTER TABLE `transactions`.`transaction`
ADD CONSTRAINT `fk_transaction_company`
FOREIGN KEY (`company_id`)
REFERENCES `transactions`.`company` (`id`)
ON UPDATE NO ACTION,
ADD CONSTRAINT `fk_transaction_credit_card`
FOREIGN KEY (`credit_card_id`)
REFERENCES `transactions`.`credit_card` (`id`)
ON UPDATE NO ACTION,
ADD CONSTRAINT `transaction_ibfk_1`
FOREIGN KEY (`company_id`)
REFERENCES `transactions`.`company` (`id`)
ON UPDATE NO ACTION,
ADD CONSTRAINT `transaction_ibfk_2`
FOREIGN KEY (`credit_card_id`)
REFERENCES `transactions`.`credit_card` (`id`)
ON DELETE RESTRICT
ON UPDATE NO ACTION;
```



```

1 • INSERT INTO transaction (id, credit_card_id, company_id, user_id, lat, longitude, amount, declined)
2 VALUES
3 ('10881D1D-5B23-A76C-55EF-C568E49A99DD', 'CcU-9999', 'b-9999', 9999, 829.999, -117.999, 111.11, 0);
4
5

```

Output

#	Time	Action	Message
318	13:50:30	Apply changes to transaction	Error 1091: Can't DRC
319	13:50:51	INSERT INTO transaction (id, credit_card_id, company_id, user_id, lat, longitude, amount, declined) VALUES (10881D1D-5B23-A...	1 row(s) affected

## Exercici 4

Des de recursos humans et sol·liciten eliminar la columna "pan" de la taula credit\_\*card. Recordar mostrar el canvi realitzat.

```

1 • ALTER TABLE credit_card DROP COLUMN pan;
2

```

I després comprovem amb el codi que hem eliminat la columna.

Administration - Data Import/Res... credit\_card credit\_card x

```

1 • SELECT * FROM transactions.credit_card;

```

	id	iban	pin	cvv	expiring_date
▶	CcU-2938	TR301950312213576817638661	3257	984	10/30/22
	CcU-2945	DO26854763748537475216568689	9080	887	08/24/23
	CcU-2952	BG45IVQL52710525608255	4598	438	06/29/21
	CcU-2959	CR7242477244335841535	3583	667	02/24/23
	CcU-2966	BG72LKTQ15627628377363	4900	130	10/29/24
	CcU-2973	PT87806228135092429456346	8760	887	01/30/25
	CcU-2980	DE39241881883086277136	5075	596	07/24/22
	CcU-2987	GE89681434837748781813	2298	797	10/31/23

## Nivell 2

### Exercici 1

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

Per eliminar el registre fem servir el delete from i després fem una recerca del ID per comprobar que està esborrada.

The screenshot shows a database management tool interface with the following components:

- SQL Editor:** Contains two queries. The first query is a SELECT statement to find a specific transaction. The second query is a DELETE statement to remove that transaction.
- Result Grid:** Displays the results of the first query, showing a single row with transaction details.
- Action Output:** A log of database actions, including INSERT, SELECT, and DELETE statements, along with their execution times and messages.
- Administration - Data Import/Res...:** A section for managing data imports and exports, showing a table structure for 'credit\_card'.

**SQL Query 1:**

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

**Result Grid:**

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

**SQL Query 2:**

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

**Action Output:**

#	Time	Action	Message
282	10:43:17	INSERT INTO credit_card (id, iban, pan, pin, cvv, expiring_date) VALUES ( 'CcU-4849...	1 row(s) affected
283	10:43:17	INSERT INTO credit_card (id, iban, pan, pin, cvv, expiring_date) VALUES ( 'CcU-4856...	1 row(s) affected
284	10:43:52	SELECT * FROM transactions.credit_card	275 row(s) returned
285	10:50:10	ALTER TABLE credit_card DROP COLUMN pan	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0
286	10:50:26	SELECT * FROM transactions.credit_card	275 row(s) returned
287	10:55:53	select * FROM transactions.transaction WHERE id = '02C6201E-D90A-1859-B4EE-88D298...	1 row(s) returned
288	10:56:27	DELETE FROM transactions.transaction WHERE id = '02C6201E-D90A-1859-B4EE-88D2...	1 row(s) affected

**Administration - Data Import/Res...:**

credit\_card x credit\_card

**SQL Query 3:**

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

**Result Grid:**

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



## Exercici 2

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.

Creem la vista amb el següent codi i després actualitzem la vista dels schemas per comprobar que s'ha creat correctament.

```
CREATE VIEW transactions.VistaMarketing AS
SELECT
    c.company_name AS Nom_Companyia,
    c.phone AS Telefon_Contacte,
    c.country AS Pais_Residencia,
    ROUND (AVG(t.amount),2) AS Mitjana_Compra
FROM
    transactions.company AS c
JOIN
    transactions.transaction AS t
ON
    c.id = t.company_id
GROUP BY
    c.company_name, c.phone, c.country
ORDER BY
    Mitjana_Compra DESC;
```

```
1 • SELECT * FROM transactions.vistamarketing;
```

Result Grid				
Filter Rows:				
Export:				
Wrap Cell Content:				
	Nom_Companyia	Telefon_Contacte	Pais_Residencia	Mitjana_Compra
▶	Eget Ipsum Ltd	03 67 44 56 72	United States	473.08
	Non Magna LLC	06 71 73 13 17	United Kingdom	468.35
	Sed Id Limited	07 28 18 18 13	United States	461.21
	Justo Eu Arcu Ltd	08 42 56 71 52	Italy	443.64
	Eget Tincidunt Dui Institute	05 35 93 32 44	Netherlands	442.52
	Viverra Donec Foundation	03 33 12 32 73	United Kingdom	442.28
	Vestibulum Lorem PC	02 02 87 33 40	Belgium	434.06
	Aliquet Diam Limited	02 76 61 47 46	United States	425.64
	Maecenas Malesuada Fringilla Inc.	09 38 53 76 61	Netherlands	408.62
	Non Ante LLP	08 89 47 65 08	Sweden	407.79
	Egestas Nunc Sed Limited	06 01 02 70 47	Italy	406.11
	Nunc Sit Incorporated	07 28 42 63 63	Norway	405.36
	Magna A Neque Industries	04 14 44 64 62	Australia	396.32
	Amet Luctus Vulputate Foundation	03 18 54 24 19	Canada	390.33
	Aliquam PC	01 45 73 52 16	Germany	385.27
	Neque Tellus Incorporated	04 43 18 34 19	Ireland	364.01
	Placerat LLP	05 43 67 24 41	Netherlands	357.08
	Elit Etiam Laoreet Associates	07 69 74 17 45	Canada	351.84
	Fusce Corp.	08 14 97 58 85	United States	350.13
	Sapien Nunc Pulvinar LLP	08 37 12 58 11	New Zealand	349.66
	Mauris Institute	05 29 60 36 87	Sweden	346.88
	Tincidunt Orci Limited	01 78 18 81 44	Norway	326.86
	Netus Et Malesuada Ltd	02 55 43 68 46	Netherlands	325.34

## Exercici 3

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

```

1  SELECT *
2  FROM transactions.VistaMarketing
3  WHERE Pais_Residencia = 'Germany'
4  ;

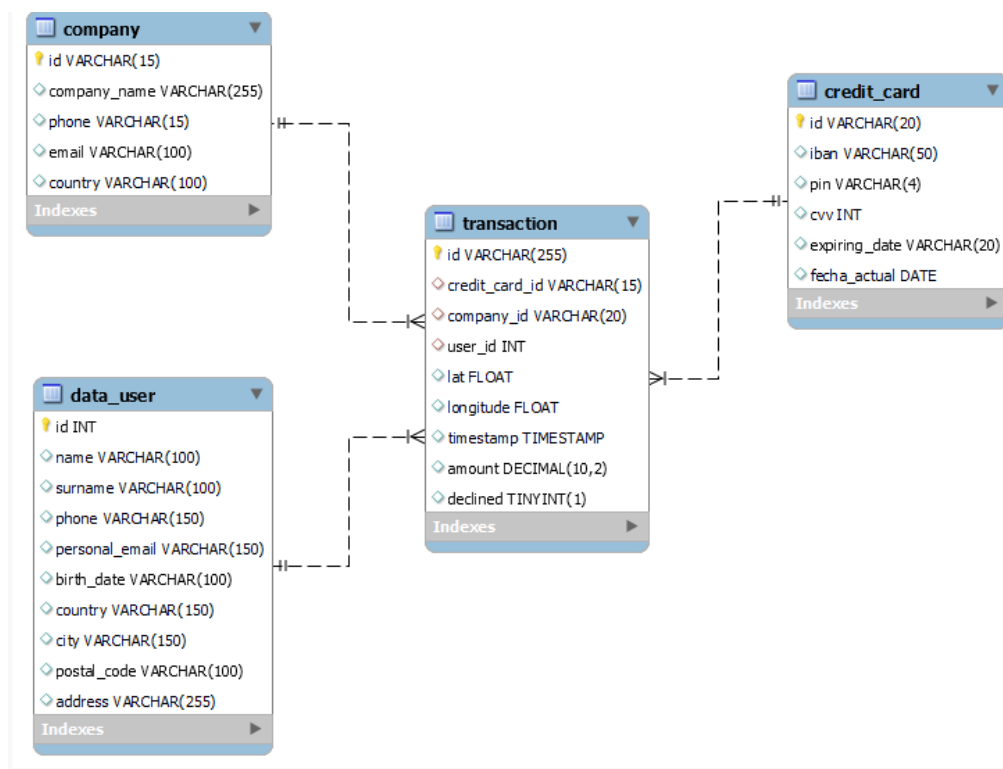
```

	Nom_Companyia	Telefon_Contacte	Pais_Residencia	Mitjana_Compra
▶	Aliquam PC	01 45 73 52 16	Germany	385.265000
	Ac Industries	09 34 65 40 60	Germany	289.645000
	Rutrum Non Inc.	02 66 31 61 09	Germany	266.900000
	Nunc Interdum Incorporated	05 18 15 48 13	Germany	244.025238
	Augue Foundation	06 88 43 15 63	Germany	240.800000
	Ac Fermentum Incorporated	06 85 56 52 33	Germany	206.465000
	Auctor Mauris Corp.	05 62 87 14 41	Germany	184.310000
	Convallis In Incorporated	06 66 57 29 50	Germany	156.730000

## Nivell 3

### Exercici 1

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"

Com ja tenim transaction, credit\_card i company creades, haurem de crear data\_user e importar les dades. Per això farem servir els documents de estructura\_datos\_user i datos\_introducir\_user.

```
CREATE INDEX idx_user_id ON transaction(user_id);
```

```
CREATE TABLE IF NOT EXISTS user (
    id INT PRIMARY KEY,
    name VARCHAR(100),
    surname VARCHAR(100),
    phone VARCHAR(150),
    email VARCHAR(150),
    birth_date VARCHAR(100),
    country VARCHAR(150),
    city VARCHAR(150),
    postal_code VARCHAR(100),
    address VARCHAR(255),
    FOREIGN KEY(id) REFERENCES transaction(user_id)
);
```

The screenshot shows a SQL IDE interface. On the left, the 'Navigator' pane displays a database schema with the following structure:

- Schemas:** sakila, sys, transactions, vistamarketing, world.
- Tables (under transactions):** company, credit\_card, transaction, user.
- Views (under vistamarketing):** Nom\_Companyia, Telefon\_Contacte, Pais\_Residencia, Mitjana\_Compra.
- Stored Procedures:** (None listed)
- Functions:** (None listed)

The main editor pane shows a script titled 'Administration - Data Import/Res...' with the following SQL commands:

```
1 SET foreign_key_checks = 0;
2
3 -- Insertamos datos de user
4 INSERT INTO user (id, name, surname, phone, email, birth
5 INSERT INTO user (id, name, surname, phone, email, birth
6 INSERT INTO user (id, name, surname, phone, email, birth
7 INSERT INTO user (id, name, surname, phone, email, birth
8 INSERT INTO user (id, name, surname, phone, email, birth
9 INSERT INTO user (id, name, surname, phone, email, birth
10 INSERT INTO user (id, name, surname, phone, email, birth
11 INSERT INTO user (id, name, surname, phone, email, birth
12 INSERT INTO user (id, name, surname, phone, email, birth
13 INSERT INTO user (id, name, surname, phone, email, birth
14 INSERT INTO user (id, name, surname, phone, email, birth
15 INSERT INTO user (id, name, surname, phone, email, birth
16 INSERT INTO user (id, name, surname, phone, email, birth
17 INSERT INTO user (id, name, surname, phone, email, birth
18 INSERT INTO user (id, name, surname, phone, email, birth
19 INSERT INTO user (id, name, surname, phone, email, birth
20 INSERT INTO user (id, name, surname, phone, email, birth
21 INSERT INTO user (id, name, surname, phone, email, birth
22 INSERT INTO user (id, name, surname, phone, email, birth
23 INSERT INTO user (id, name, surname, phone, email, birth
24 INSERT INTO user (id, name, surname, phone, email, birth
25 INSERT INTO user (id, name, surname, phone, email, birth
```

The bottom pane shows the 'Information' tab for the 'vistamarketing' view, listing the following columns and their data types:

Column Name	Data Type
Nom_Companyia	varchar
Telefon_Contacte	varchar
Pais_Residencia	varchar
Mitjana_Compra	decimal

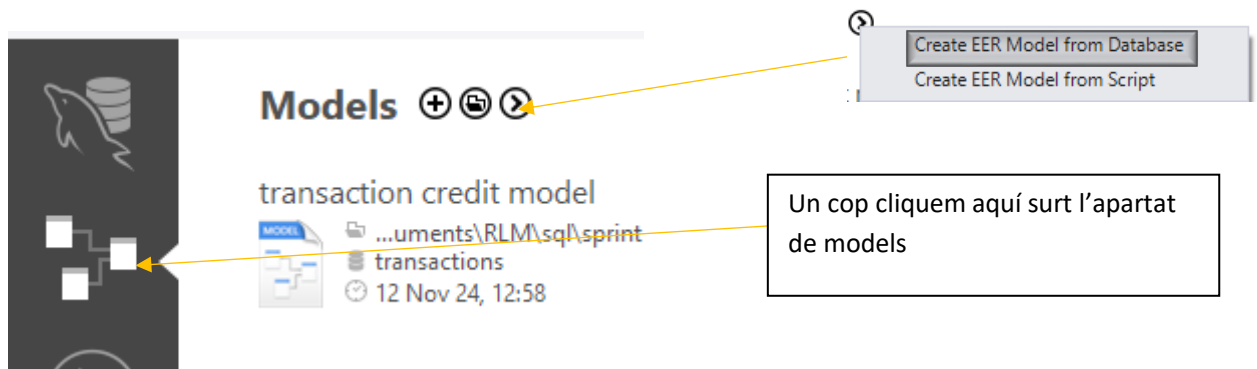
Modifiquem les taules perque coincideixin amb la imatge.

```
#modifiquem les taules perque coincideixin amb la imatge:
#user: canviar nom a data_user, canvia email a personal_email
ALTER TABLE user RENAME TO data_user;
ALTER TABLE user RENAME COLUMN email TO personal_email;

#company: esborrar columna website
ALTER TABLE company DROP COLUMN website;

#credit_card: afegir columna fecha_actual DATE, esborrar pan
ALTER TABLE credit_card ADD COLUMN fecha_actual DATE;
ALTER TABLE credit_card DROP COLUMN pan;
```

Un cop ja tenim totes les taules, anem a l'icona de *home* i allà cliquem en l'iconas de *models*, a sota del dofi. Veurem una > i allà escollim *create EER Model from Database*



Ens surt aquesta ajuda on anirem seleccionant i donant-li a següent.

Reverse Engineer Database

**Connection Options**

- Connect to DBMS
- Select Schemas
- Retrieve Objects
- Select Objects
- Reverse Engineer
- Results

**Set Parameters for Connecting to a DBMS**

Stored Connection: Local instance MySQL80 Select from saved connection settings

Connection Method: Standard (TCP/IP) Method to use to connect to the RDBMS

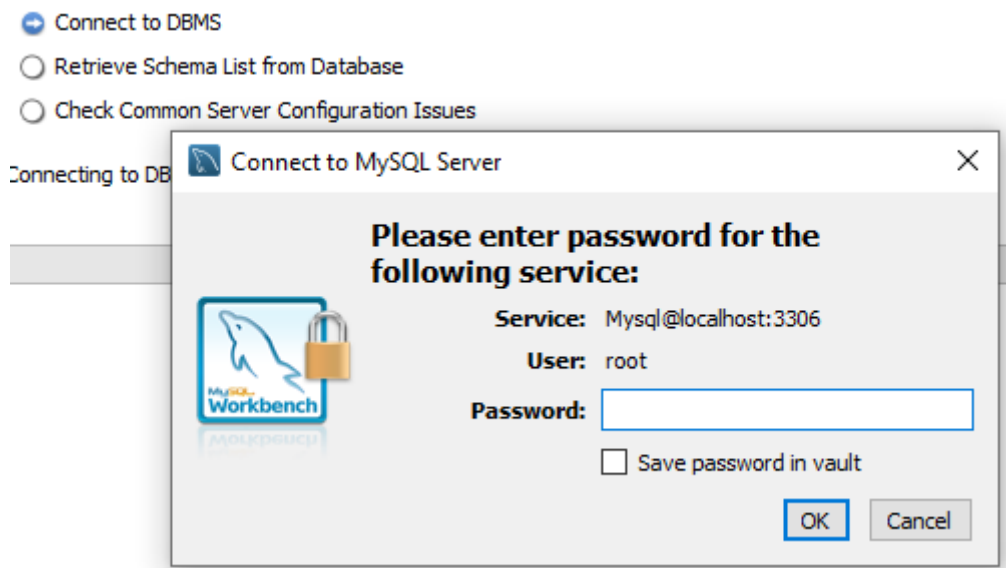
Parameters **SSL** Advanced

Hostname: localhost Port: 3306 Name or IP address of the server host - and TCP/IP port.

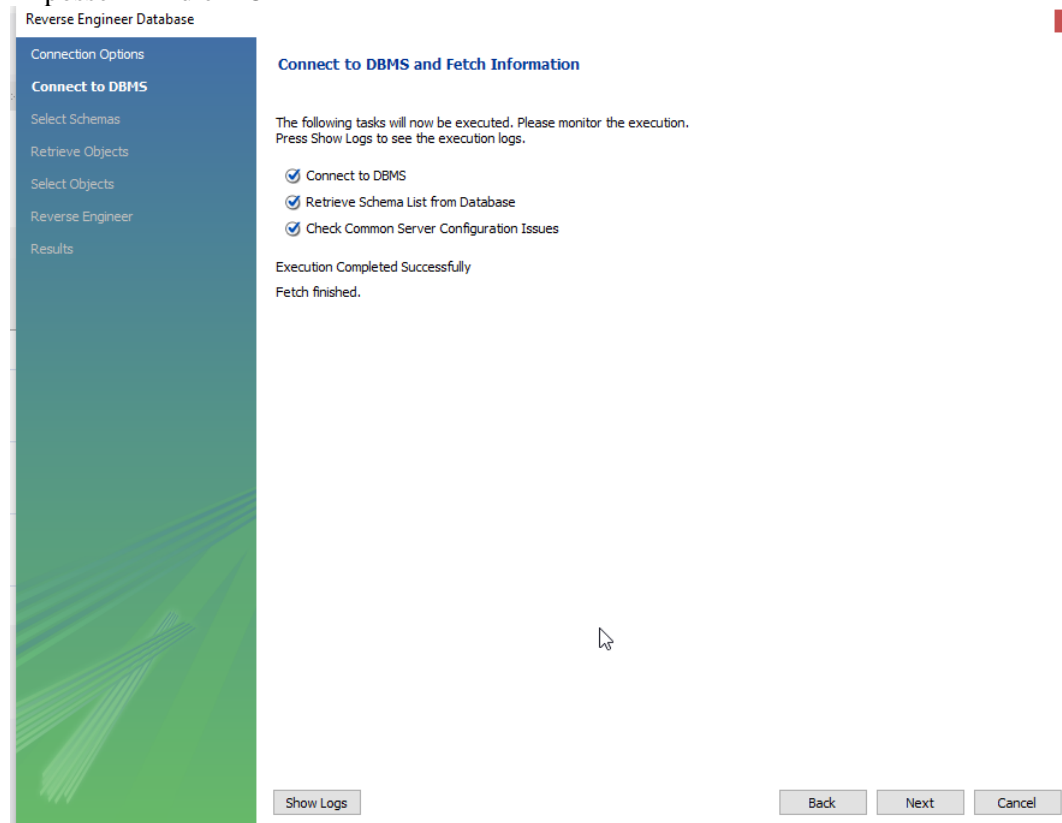
Username: root Name of the user to connect with.

Password:   The user's password. Will be requested later if it's not set.

Ens demanarà el password



El possem i li diem OK



Ens sortirà aquesta pantalla i li donem a next  
 Seleccionem quin Schema volem I li donem a Next

## Select Schemas to Reverse Engineer



Select the schemas you want to include:

- ☐ sakila  
☒ transactions  
☐ world

Un altre cop, contrasenya i next

Reverse Engineer Database

Connection Options

Connect to DBMS

Select Schemas

**Retrieve Objects**

Select Objects

Reverse Engineer

Results

**Retrieve and Reverse Engineer Schema Objects**

The following tasks will now be executed. Please monitor the execution. Press Show Logs to see the execution logs.


☒ Retrieve Objects from Selected Schemas  
☒ Check Results

Retrieval Completed Successfully  
Finished.

Show Logs


BackNextCancel

## Select Objects to Reverse Engineer

☒ Import MySQL Table Objects

Show Filter

4 Total Objects, 4 Selected

☐ Import MySQL View Objects

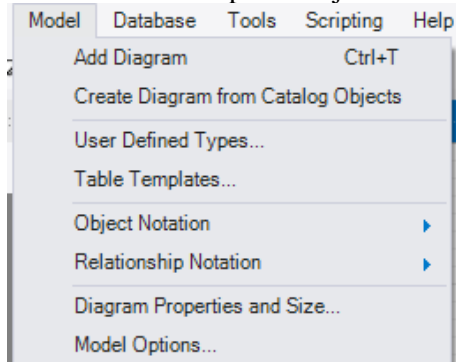
Show Filter

2 Total Objects, 2 Selected

☒ Place imported objects on a diagram

BackExecute >Cancel

Execute, next i Finish I ja tenim el model, ara seria relacionar les taules entre elles i escollir a Model el table templates object notation i relationship notation que volguem.



## Exercici 2

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 descendent en funció de la variable ID de transaction.

**CREATE VIEW transactions.InformeTecnico AS**

```

SELECT
  t.id AS id_transacció ,
  u.name AS Nom_Usuari,
  u.surname AS Cognom_Usuari,
  cc.iban,
  c.company_name AS Nom_companyia
FROM
  transactions.transaction AS t
JOIN
  transactions.user AS u ON t.user_id = u.id
JOIN
  transactions.credit_card AS cc ON t.credit_card_id = cc.id
JOIN
  transactions.company AS c ON t.company_id = c.id
ORDER BY
  id_transacció DESC;
```

**View: informetecnico**

**Columns:**

Column Name	Data Type
id_transacció	varchar(25)
Nom_Usuari	varchar(10)
Cognom_Usuari	varchar(10)
iban	varchar(50)
Nom_companyia	varchar(25)

**Output**

#	Time	Action	Message
573	12:44:32	CREATE VIEW transactions.InformeTecnico AS SELECT t.id AS ID_Transaccio, ...	Error Code: 1054. Unknown column 'u.first_name' in 'field list'
574	12:48:30	CREATE VIEW transactions.InformeTecnico AS SELECT t.id AS id_transacció, ...	0 row(s) affected

**CHEMAS**

Filter objects

- cvv
- expiring\_date
- Indexes
- Foreign Keys
- Triggers
- transaction
- user
- Views
  - informetecnico
    - id\_transacció
    - Nom\_Usuari
    - Cognom\_Usuari
    - iban
    - Nom\_companyia
  - vistamarketing
  - Stored Procedures
  - Functions
- world

Administration Schemas

information

1 • SELECT \* FROM transactions.informetecnico;

Result Grid Filter Rows: Export: Wrap Cell Contents: [F](#)

id_transacció	Nom_Usuari	Cognom_Usuari	iban	Nom_companyia
FE96CE47-8D59-381C-4E18-E3CA3D44E8FF	Kenyon	Hartman	DO26854763748537475216568689	Magna A Neque Industries
FE809ED4-2DB6-55AC-C915-929516E4646B	Molly	Gilliam	SE2813123487163628531121	Nunc Interdum Incorporated
FD9CBCCD-8E1E-8DA1-4606-7E3A6F3A5A65	Linus	Willis	KW9485332754781757886242955643	Nunc Interdum Incorporated
FD89D51B-AE8D-77DC-E450-B8083FBD3187	Hilda	Levy	LT053237077744561475	Malesuada PC
FD2E8957-414B-BEEC-E9AD-59AA7A8A6290	Hedwig	Gilbert	GE84848451582810541526	Neque Tellus Imperdiet Corp.
FCE2AB9A-271D-2BDC-9E49-8D092A373391	Hakeem	Alford	MD1234119525145401270486	Nunc Interdum Incorporated
FBD7E0D6-8A6B-F5BC-0CA9-EA4B8760100C	Hedwig	Gilbert	MU4132333444534342541344788855	Mauris Id Inc.
FAC76A80-8448-69AA-E892-426C2F12621C	Slade	Poole	MT05JWCF58868200575771634583813	Arcu LLP
FAAD3FFC-1A17-E141-43D3-359A5BA7CB3B	Hedwig	Gilbert	GE90157928843338134463	Lorem Eu Incorporated
FA053936-75D8-85FA-490D-9B624E1B920A	Hedwig	Gilbert	GT02497653655330848247645975	Non Justo Corp.
F85A7D75-2778-9D75-D776-3F41A828DE88	Sarah	Beck	VG1468087984174645729577	Ut Semper Foundation
F843DC08-CCB5-2444-1B4E-5966289FBA8B	Jasper	Landry	VG1468087984174645729577	Ut Semper Foundation