

SPRINT 3

Raquel Limpo Martínez

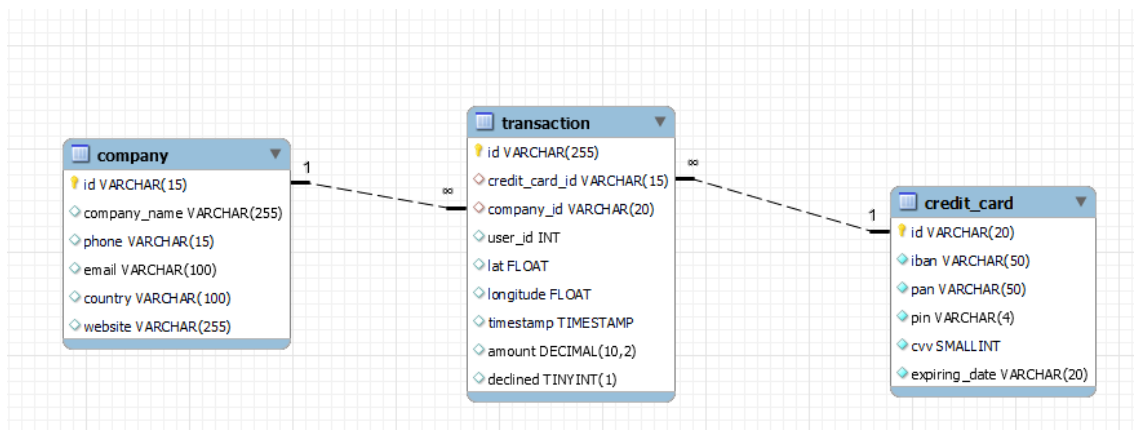
Tabla de contenido

| | |
|------------------|----|
| Nivell 1 | 2 |
| Exercici 1 | 2 |
| Exercici 2 | 4 |
| Exercici 3 | 5 |
| Exercici 4 | 7 |
| Nivell 2 | 8 |
| Exercici 1 | 8 |
| Exercici 2 | 9 |
| Exercici 3 | 10 |
| Nivell 3 | 10 |
| Exercici 1 | 10 |
| Exercici 2 | 16 |

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 IF NOT EXISTS credit_card (
  id VARCHAR(20) UNIQUE 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
);

CREATE INDEX credit_card_id_idx
  ON transaction(credit_card_id);

ALTER TABLE credit_card
  ADD FOREIGN KEY (id) REFERENCES transaction (credit_card_id);

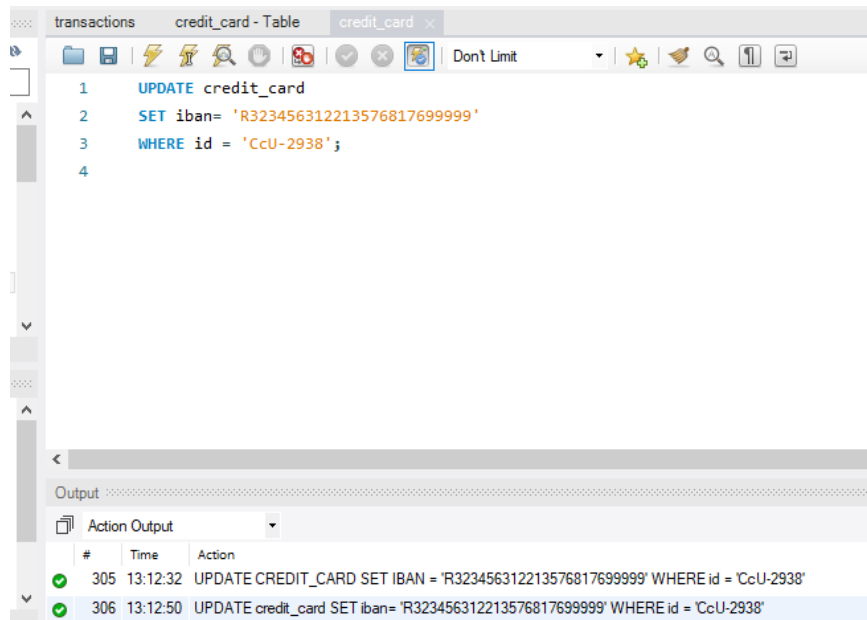
ALTER TABLE transaction
  ADD FOREIGN KEY (credit_card_id) REFERENCES credit_card (id),
  ADD FOREIGN KEY (user_id) REFERENCES user (id);
```

Comprobem que estan les dades

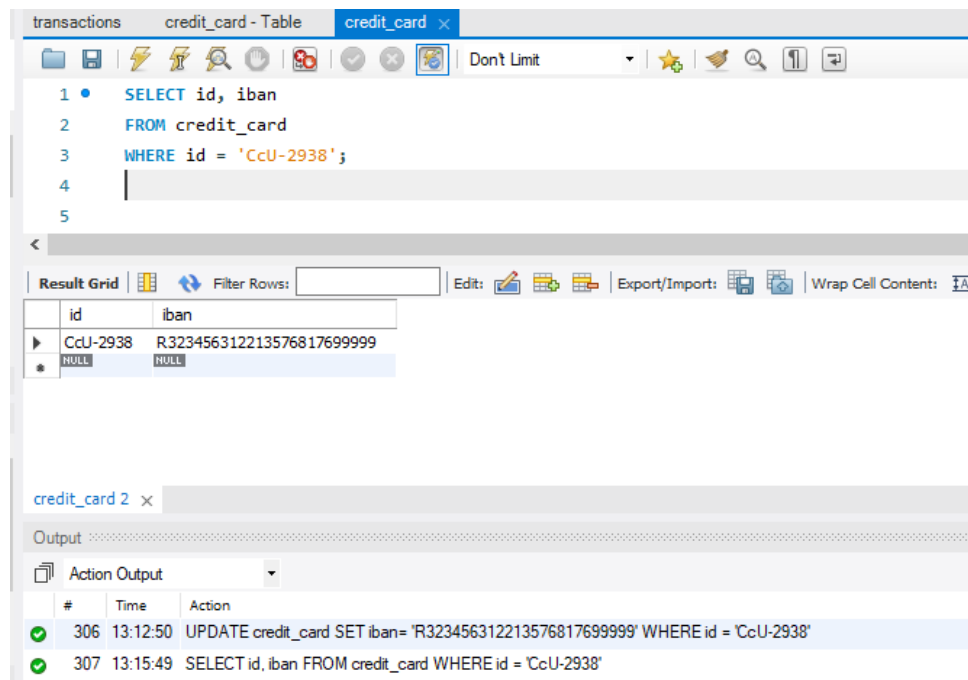
| id | iban | pan | pin | cvv | expiring_date | current_date |
|----------|-------------------------------|---------------------|------|-----|---------------|---------------------|
| CcU-2938 | R323456312213576817699999 | 5424465566813633 | 3257 | 984 | 10/30/22 | 2024-11-13 13:12:32 |
| CcU-2945 | DO26854763748537475216568689 | 5142423821948828 | 9080 | 887 | 08/24/23 | NULL |
| CcU-2952 | BG45IVQL52710525608255 | 4556 453 55 5287 | 4598 | 438 | 06/29/21 | NULL |
| CcU-2959 | CR7242477244335841535 | 372461377349375 | 3583 | 667 | 02/24/23 | NULL |
| CcU-2966 | BG72LKTQ15627628377363 | 448566 886747 7265 | 4900 | 130 | 10/29/24 | NULL |
| CcU-2973 | PT87806228135092429456346 | 544 58654 54343 384 | 8760 | 887 | 01/30/25 | NULL |
| CcU-2980 | DE39241881883086277136 | 402400 7145845969 | 5075 | 596 | 07/24/22 | NULL |
| CcU-2987 | GE89681434837748781813 | 3763 747687 76666 | 2298 | 797 | 10/31/23 | NULL |
| CcU-2994 | BH62714428368066765294 | 344283273252593 | 7545 | 595 | 02/28/22 | NULL |
| CcU-3001 | CY49087426654774581266832110 | 511722 924833 2244 | 9562 | 867 | 09/16/22 | NULL |
| CcU-3008 | LU507216693616119230 | 4485744464433884 | 1856 | 740 | 04/05/25 | NULL |
| CcU-3015 | PS119398216295715968342456821 | 3784 662233 17389 | 3246 | 822 | 01/31/22 | NULL |
| CcU-3022 | GT91695162850556977423121857 | 5164 1379 4842 3951 | 5610 | 342 | 04/25/25 | NULL |
| CcU-3029 | AZ62317413982441418123739746 | 3429 279566 77631 | 9708 | 505 | 09/02/23 | NULL |
| CcU-3036 | AZ39336002925842865843941994 | 3768 451556 48766 | 2232 | 565 | 10/27/25 | NULL |
| CcU-3043 | TN6488143310514852179535 | 455676 6437463635 | 5969 | 196 | 06/07/25 | NULL |
| CcU-3050 | FR5167744369175836831854477 | 4024007123722 | 4834 | 126 | 10/09/23 | NULL |
| CcU-3057 | LU931822574697545215 | 3484 621767 21237 | 6805 | 848 | 09/14/25 | NULL |
| CcU-3064 | PS146965545449253377627273133 | 3467 732741 26810 | 3865 | 498 | 06/03/25 | NULL |
| CcU-3071 | NO8923814763512 | 3464 789562 23352 | 6625 | 661 | 12/20/23 | NULL |
| CcU-3078 | IS025127145884623279548733 | 4539 322 74 2377 | 9405 | 720 | 03/08/23 | NULL |

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.



Verifiquem 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 |
| | |

Per aquest exercici he hagut de crear ids a les altres taules que coincidissin amb els valors del usuari a transactions, ja que si ho feia tal qual em donava error per les foreign keys, ja que al no existir aquest valors, no era capaç d'insertar l'usuari.

- ▶ `SELECT *`
`FROM credit_card`
`WHERE id = 'CcU-9999';`
- ▶ `INSERT INTO company (id)`
`VALUES ('b-9999');`
- ▶ `SELECT *`
`FROM company`
`WHERE id = 'b-9999';`
- ▶ `INSERT INTO user (id)`
`VALUES ('b-9999');`
- ▶ `SELECT *`
`FROM user`
`WHERE id = 'b-9999';`

```

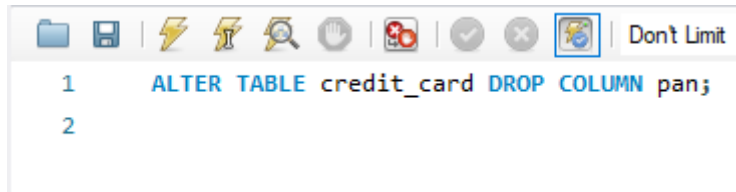
9 • INSERT INTO transaction (
0     id,
1     credit_card_id,
2     company_id,
3     user_id,
4     lat,
5     longitude,
6     amount,
7     declined
8 )
9 VALUES (
0     '108B1D1D-5B23-A76C-55EF-C568E49A99DD',
1     'CcU-9999',
2     'b-9999',
3     '9999',
4     829.999,
5     -117.999,
6     111.11,
7     0
8 );
9
0 • SELECT *
1 FROM transaction
2 WHERE id = '108B1D1D-5B23-A76C-55EF-C568E49A99DD';

```

| <div> <div>sult Grid</div> <div> <div>Filter Rows:</div> <div>Edit:</div> <div>Export/Import:</div> <div>Wrap Cell Content:</div> </div> </div> | | | | | | | | |
|---|----------------|------------|---------|---------|-----------|-----------|--------|----------|
| id | credit_card_id | company_id | user_id | lat | longitude | timestamp | amount | declined |
| 108B1D1D-5B23-A76C-55EF-C568E49A99DD | CcU-9999 | b-9999 | 9999 | 829.999 | -117.999 | NULL | 111.11 | 0 |
| NULL | NULL | NULL | NULL | NULL | NULL | NULL | NULL | NULL |

Exercici 4

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

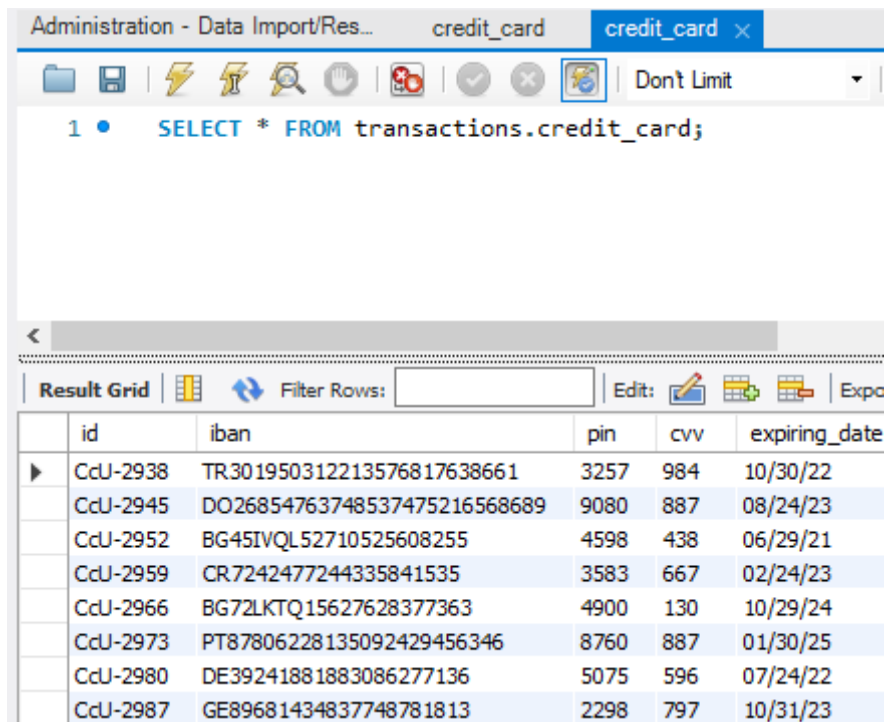


```

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;

```

Result Grid | Filter Rows: | Edit: | Exports

| | 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 comprovar que està esborrada.

```

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 |
| NULL | NULL | NULL | NULL | NULL | NULL | NULL | NULL | NULL |

```

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

```

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

```

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 comprovar 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,
    AVG(t.amount) AS Mitjana_Compra
FROM
    transactions.company AS c
JOIN
    transactions.transaction AS t
ON
    c.id = t.company_id
GROUP BY
    Nom_Companyia, Telefon_Contacte, Pais_Residencia
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 |

Exercici 3

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

```

122  # **Exercici 3**
123  #Filtra la vista VistaMarketing per a mostrar només les companyies que tenen el seu país de residència en "Germany"
124  • SELECT *
125  FROM transactions.VistaMarketing
126  WHERE Pais_Residencia = 'Germany';
127

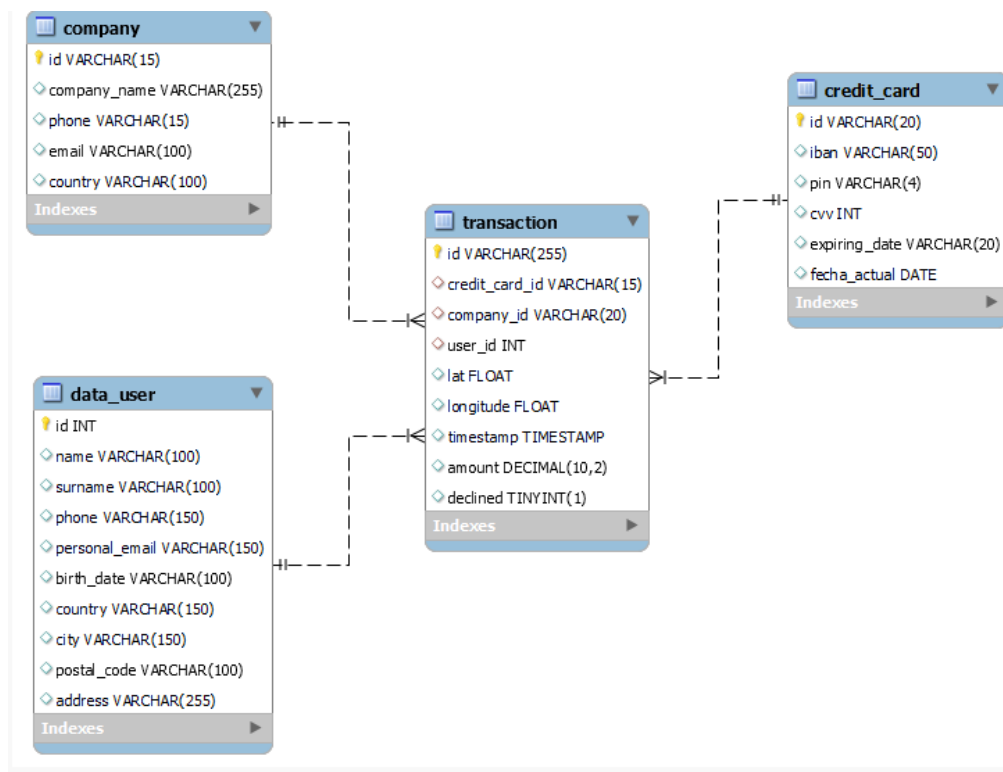
```

| Result Grid | | | | |
|---|----------------------------|------------------|-----------------|----------------|
| Filter Rows: <input type="text"/> Export: Wrap Cell Content: | | | | |
| | Nom_Companyia | Telefon_Contacte | Pais_Residencia | Mitjana_Compra |
| ▶ | Aliquam PC | 01 45 73 52 16 | Germany | 385.27 |
| | Ac Industries | 09 34 65 40 60 | Germany | 289.65 |
| | Rutrum Non Inc. | 02 66 31 61 09 | Germany | 266.90 |
| | Nunc Interdum Incorporated | 05 18 15 48 13 | Germany | 244.03 |
| | Augue Foundation | 06 88 43 15 63 | Germany | 240.80 |
| | Ac Fermentum Incorporated | 06 85 56 52 33 | Germany | 206.47 |
| | Auctor Mauris Corp. | 05 62 87 14 41 | Germany | 184.31 |
| | Convallis In Incorporated | 06 66 57 29 50 | Germany | 156.73 |

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 database management interface with a left-hand sidebar and a main execution area.

Left Sidebar:

- Navigator:**
 - SCHEMAS:** sakila, sys, transactions (expanded).
 - Tables:** company, credit_card, transaction, user.
 - Views:** vistamarketing (expanded).
 - Nom_Companyia
 - Telefon_Contacte
 - Pais_Residencia
 - Mitjana_Compra
 - Stored Procedures
 - Functions
 - world
- Administration:** Schemas
- Information:** View: vistamarketing
 - Columns:**

| | |
|------------------|---------|
| Nom_Companyia | varchar |
| Telefon_Contacte | varchar |
| Pais_Residencia | varchar |
| Mitjana_Compra | decimal |

Main Execution Area:

- Tab:** Administration - Data Import/Res... credit_card credit_card vistamarketing
- SQL Script:**

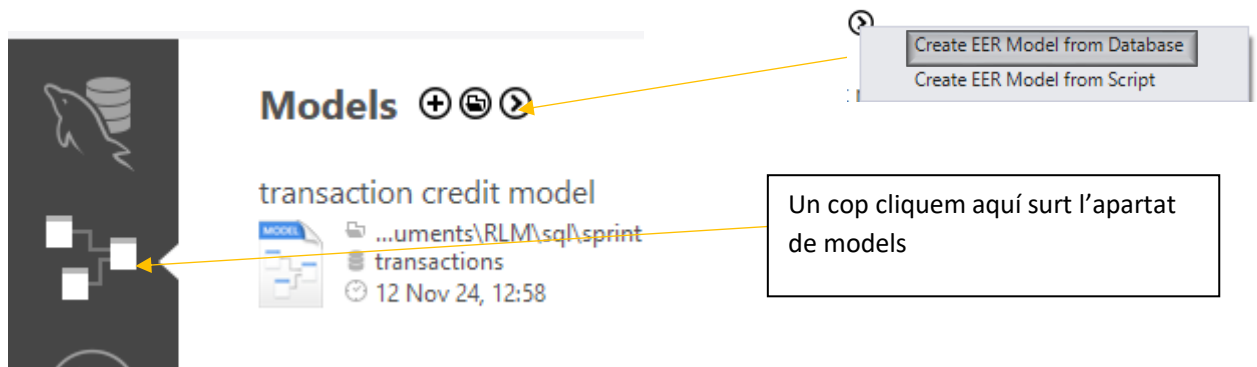
```
1 • SET foreign_key_checks = 0;
2
3 -- Insertamos datos de user
4 • INSERT INTO user (id, name, surname, phone, email, birth
5 • INSERT INTO user (id, name, surname, phone, email, birth
6 • INSERT INTO user (id, name, surname, phone, email, birth
7 • INSERT INTO user (id, name, surname, phone, email, 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
```
- Output:** (Empty)

```
#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;

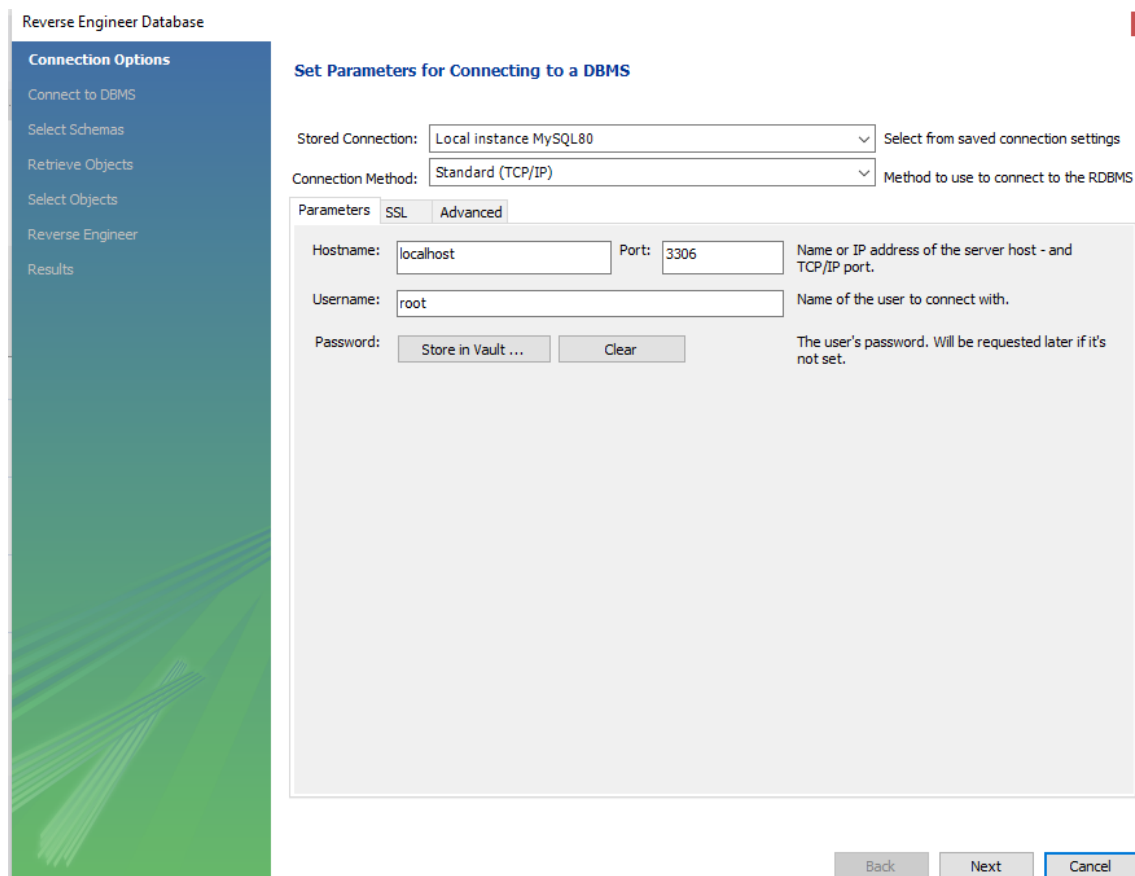
#company: esborrar columna website
ALTER TABLE company DROP COLUMN website;

#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;
```

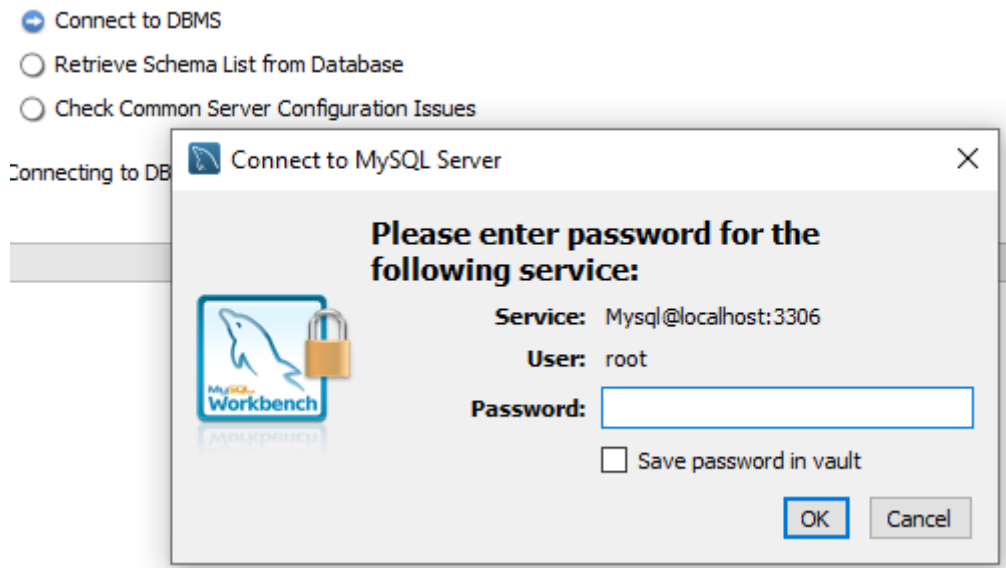
Un cop ja tenim totes les taules, anem a l'icona de home i allà cliquem en l'iconas de models, a sota del dofí. Veurem una > i allà escollim create EER Model from Database



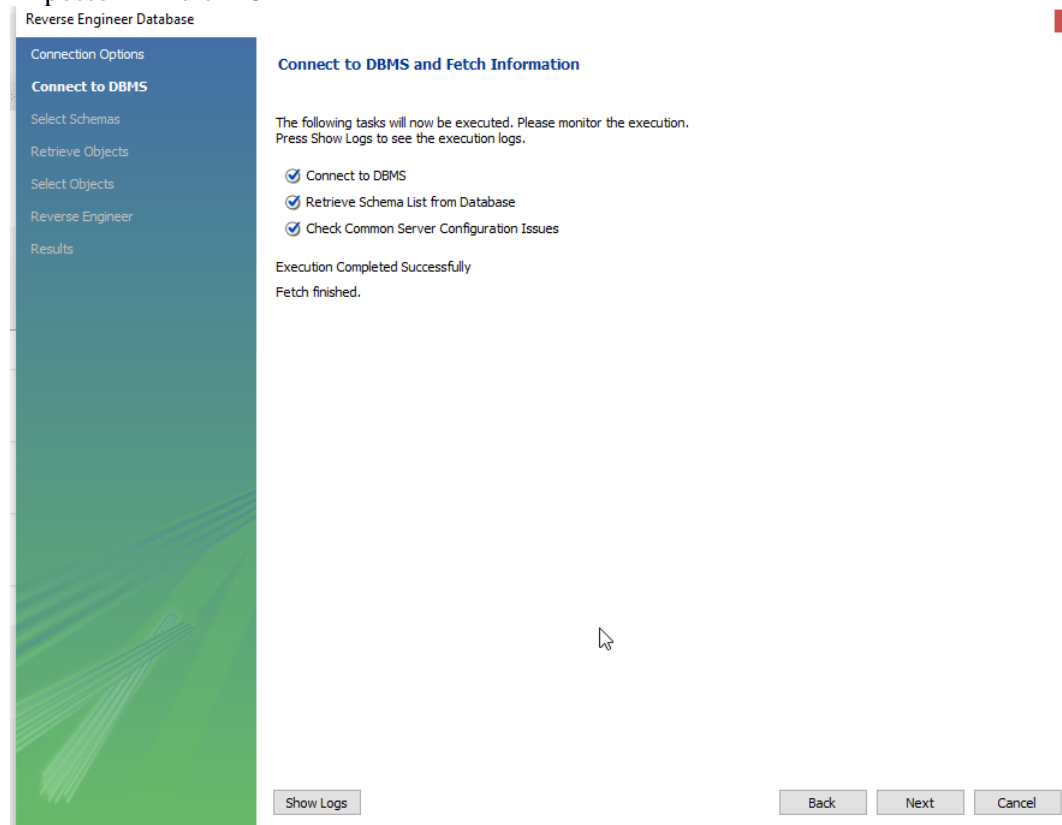
Ens surt aquesta ajuda on anirem seleccionant i donant-li a següent.



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

Back

Next

Cancel

Select Objects to Reverse Engineer

☒ Import MySQL Table Objects

4 Total Objects, 4 Selected

Show Filter

☐ Import MySQL View Objects

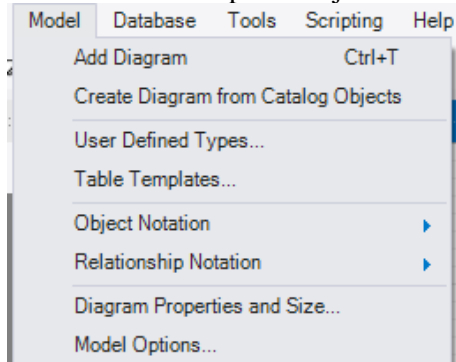
2 Total Objects, 2 Selected

Show Filter

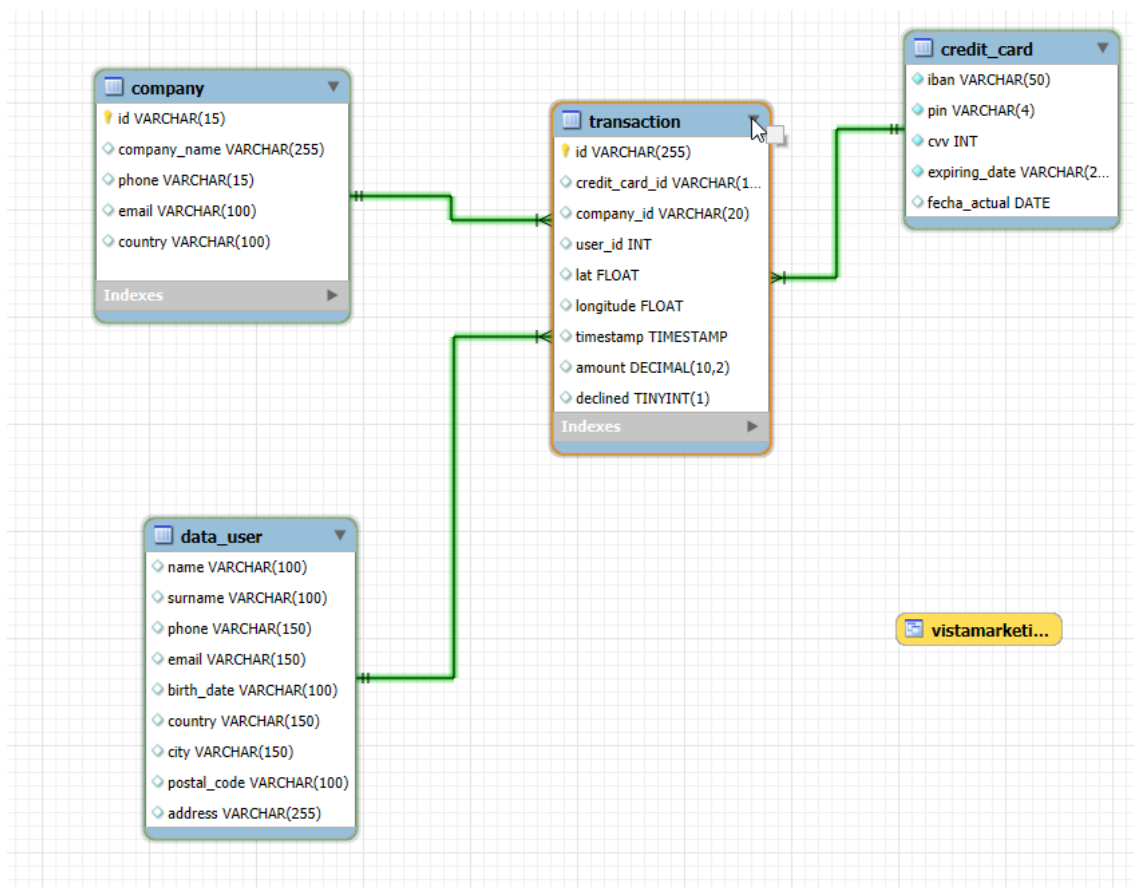
☒ Place imported objects on a diagram

Back Execute > 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.



I aquí veiem la taula finalitzada.



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.

The screenshot shows the SQL Server Enterprise Manager interface. On the left, the 'SCHEMAS' pane shows the 'world' database with a view named 'InformeTecnico'. The 'Columns' pane for this view lists: id_transacció (varchar(25)), Nom_Usuari (varchar(10)), Cognom_Usuari (varchar(10)), iban (varchar(50)), and Nom_companyia (varchar(25)).

The main pane shows the SQL script for creating the view:

```
1 CREATE VIEW transactions.InformeTecnico AS
2 SELECT
3     t.id AS id_transacció ,
4     u.name AS Nom_Usuari,
5     u.surname AS Cognom_Usuari,
6     cc.iban,
7     c.company_name AS Nom_companyia
8 FROM
9     transactions.transaction AS t
10 JOIN
11     transactions.user AS u ON t.user_id = u.id
12 JOIN
13     transactions.credit_card AS cc ON t.credit_card_id = cc.id
14 JOIN
15     transactions.company AS c ON t.company_id = c.id
16 ORDER BY
17     id_transacció DESC;
```

The 'Output' pane shows the execution results:

```
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
```

The 'Result Grid' pane shows the data returned by the view:

| id_transacció | Nom_Usuari | Cognom_Usuari | iban | Nom_companyia |
|--------------------------------------|------------|---------------|---------------------------------|------------------------------|
| FE96CE47-BD59-381C-4E18-E3CA3D44E8FF | Kenyon | Hartman | DO26854763748537475216568689 | Magna A Neque Industries |
| FE809ED4-2D66-55AC-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-BA6B-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 |