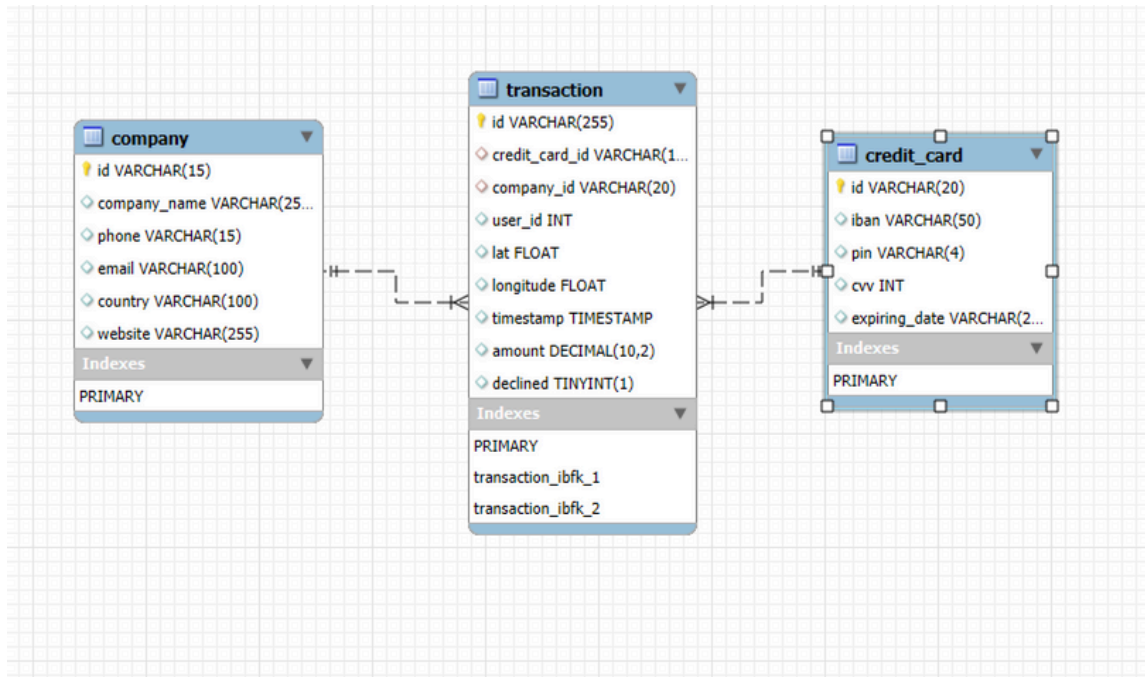




Sprint 3 - Nivel 3

Ejercicio 1

La próxima semana tendrás una nueva reunión con los gerentes de marketing. Un compañero de tu equipo realizó modificaciones en la base de datos, pero no recuerda cómo las realizó. Te pide que le ayudes a dejar los comandos ejecutados para obtener el siguiente diagrama:



Agregar columna "fecha_actual" a la tabla credit_card

```
3 • ALTER TABLE credit_card
4 ADD fecha_actual DATE;
```

Output

#	Time	Action	Message
1	10:50:15	ALTER TABLE credit_card ADD fecha_actual DATE	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0

Eliminar columna "website" de la tabla company

```
7 • SELECT * FROM company;
8
9 • ALTER TABLE company
10 DROP COLUMN website;
```

Output			
Action Output			
#	Time	Action	Message
1	12:51:08	ALTER TABLE company DROP COLUMN website	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0

Crear tabla user

```
12 -- Creamos la tabla user
13
14 • CREATE INDEX idx_user_id ON transaction(user_id);
15
16 • CREATE TABLE IF NOT EXISTS user (
17     id INT PRIMARY KEY,
18     name VARCHAR(100),
19     surname VARCHAR(100),
20     phone VARCHAR(150),
21     email VARCHAR(150),
22     birth_date VARCHAR(100),
23     country VARCHAR(150),
24     city VARCHAR(150),
25     postal_code VARCHAR(100),
26     address VARCHAR(255),
27     FOREIGN KEY(id) REFERENCES transaction(user_id)
28 );
29
```

Output			
Action Output			
#	Time	Action	Message
1	12:55:59	CREATE INDEX idx_user_id ON transaction(user_id)	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0
2	12:56:03	CREATE TABLE IF NOT EXISTS user (id INT PRIMARY KEY, name VARCHAR(100), ...	0 row(s) affected

Cargar los datos en la tabla user

```
295 • INSERT INTO user (id, name, surname, phone, email, birth_date, country, city, postal_code, address) VALUES ( "261", "Violet", "Weber", "019-661-3744"
296 • INSERT INTO user (id, name, surname, phone, email, birth_date, country, city, postal_code, address) VALUES ( "262", "Brett", "Kirby", "076-166-2169"
297 • INSERT INTO user (id, name, surname, phone, email, birth_date, country, city, postal_code, address) VALUES ( "263", "Ima", "Hendricks", "065-953-879"
298 • INSERT INTO user (id, name, surname, phone, email, birth_date, country, city, postal_code, address) VALUES ( "264", "Keiko", "Guerra", "034-741-6314"
299 • INSERT INTO user (id, name, surname, phone, email, birth_date, country, city, postal_code, address) VALUES ( "265", "Chloe", "Keith", "022-178-1548"
300 • INSERT INTO user (id, name, surname, phone, email, birth_date, country, city, postal_code, address) VALUES ( "266", "Aiko", "Chaney", "026-660-1876"
301 • INSERT INTO user (id, name, surname, phone, email, birth_date, country, city, postal_code, address) VALUES ( "267", "Ocean", "Nelson", "079-481-2745"
302 • INSERT INTO user (id, name, surname, phone, email, birth_date, country, city, postal_code, address) VALUES ( "268", "Clark", "Olson", "029-086-1867"
303 • INSERT INTO user (id, name, surname, phone, email, birth_date, country, city, postal_code, address) VALUES ( "269", "Haley", "Fitzpatrick", "055-871"
304 • INSERT INTO user (id, name, surname, phone, email, birth_date, country, city, postal_code, address) VALUES ( "270", "Elton", "Roberson", "096-325-514"
305 • INSERT INTO user (id, name, surname, phone, email, birth_date, country, city, postal_code, address) VALUES ( "271", "Leandra", "Cherry", "089-285-70"
306 • INSERT INTO user (id, name, surname, phone, email, birth_date, country, city, postal_code, address) VALUES ( "272", "Hedwig", "Gilbert", "064-204-871"
307 • INSERT INTO user (id, name, surname, phone, email, birth_date, country, city, postal_code, address) VALUES ( "273", "Hilary", "Ferguson", "060-710-11"
308 • INSERT INTO user (id, name, surname, phone, email, birth_date, country, city, postal_code, address) VALUES ( "274", "Jameson", "Hunt", "024-732-2321"
309 • INSERT INTO user (id, name, surname, phone, email, birth_date, country, city, postal_code, address) VALUES ( "275", "Kenyon", "Hartman", "082-871-72"
310
311 • SET foreign_key_checks = 1;
312
```

Output			
Action Output			
#	Time	Action	Message
274	13:01:33	INSERT INTO user (id, name, surname, phone, email, birth_date, country, city, postal_code, address)	1 row(s) affected
275	13:01:33	INSERT INTO user (id, name, surname, phone, email, birth_date, country, city, postal_code, address)	1 row(s) affected
276	13:01:33	INSERT INTO user (id, name, surname, phone, email, birth_date, country, city, postal_code, address)	1 row(s) affected
277	13:01:33	INSERT INTO user (id, name, surname, phone, email, birth_date, country, city, postal_code, address)	1 row(s) affected
278	13:01:33	INSERT INTO user (id, name, surname, phone, email, birth_date, country, city, postal_code, address)	1 row(s) affected
279	13:01:33	INSERT INTO user (id, name, surname, phone, email, birth_date, country, city, postal_code, address)	1 row(s) affected
280	13:01:33	INSERT INTO user (id, name, surname, phone, email, birth_date, country, city, postal_code, address)	1 row(s) affected
281	13:01:33	SET foreign_key_checks = 1	0 row(s) affected

Renombrar columna email en tabla user

```
313 -- Renombrar columna email
314 • ALTER TABLE user
315 RENAME COLUMN email TO personal_email;
```

Output

Action Output

#	Time	Action	Message
✓ 1	13:07:43	ALTER TABLE user RENAME COLUMN email TO personal_email	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0

Usuarios en la tabla transaction que no estan en la tabla user

```
29 • SELECT DISTINCT user_id
30 FROM transaction
31 WHERE user_id NOT IN (SELECT id FROM user);
32
```

Result Grid

user_id
9999

transaction 8

Output

Action Output

#	Time	Action	Message
✓ 1	14:03:06	SELECT user_id FROM transaction WHERE NOT EXISTS (SELECT id FROM user WHERE user...	1 row(s) returned

Inserto el valor que no existe en la tabla user. Tambien podria haer optado por eliminar este valor.

```
33 • INSERT INTO user (id)
34 VALUES ('9999');
35
```

Output

Action Output

#	Time	Action	Message
✓ 1	09:04:31	INSERT INTO user (id) VALUES ('9999')	1 row(s) affected

Creo la clave foranea

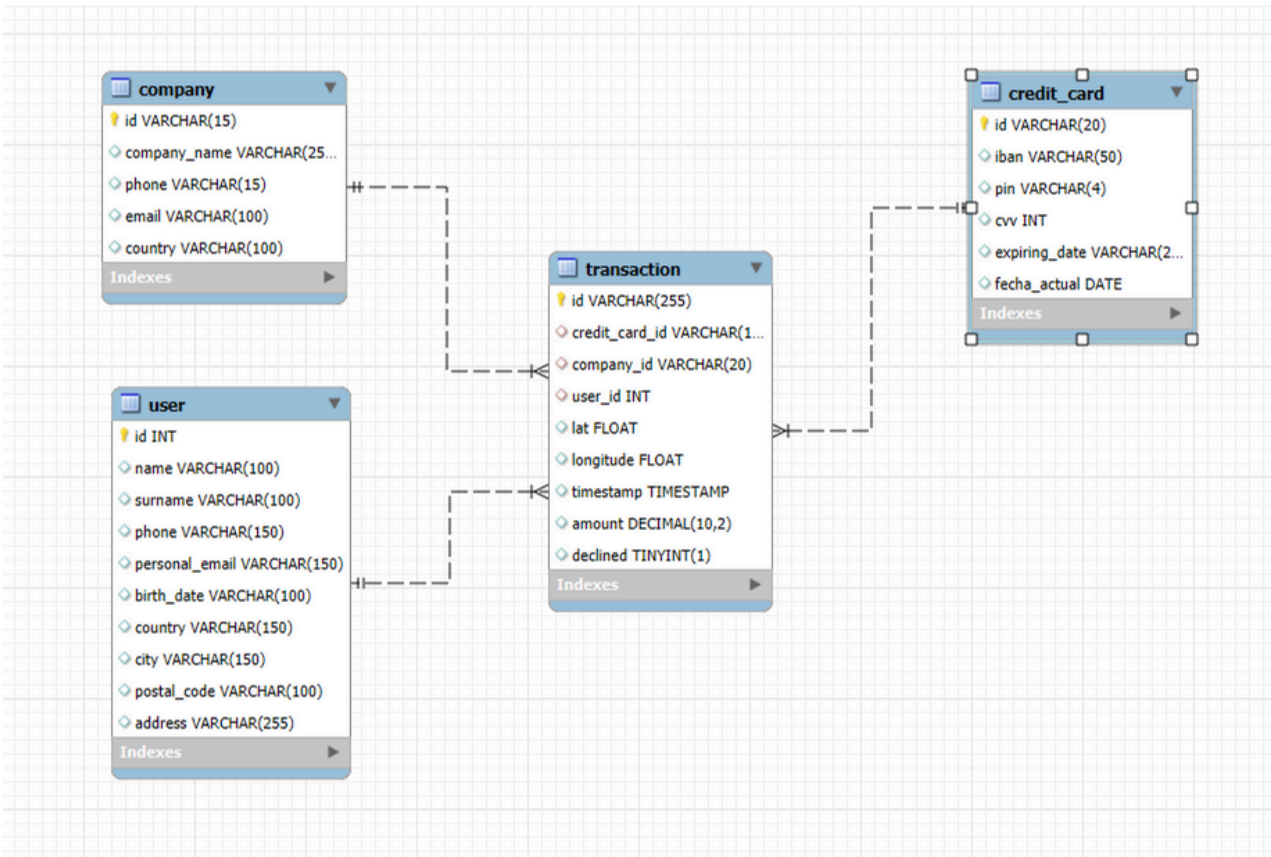
```
26 • ALTER TABLE transaction
27 ADD CONSTRAINT fk_user_id FOREIGN KEY (user_id) REFERENCES user(id);
28
```

Output

Action Output

#	Time	Action	Message
✓ 1	09:05:50	ALTER TABLE transaction ADD CONSTRAINT fk_user_id FOREIGN KEY (user_id) REFERENCES user(id)	587 row(s) affected Records: 587 Duplicates: 0 Warnings: 0

Diagrama luego de las modificaciones en la base de datos



Ejercicio 2

La empresa también te solicita crear una vista llamada "InformeTecnico" que contenga la siguiente información:

ID de la transacción

Nombre del usuario/a

Apellido del usuario/a

IBAN de la tarjeta de crédito usada.

Nombre de la compañía de la transacción realizada.

Asegúrate de incluir información relevante de ambas tablas y utiliza alias para cambiar de nombre columnas según sea necesario.

Muestra los resultados de la vista, ordena los resultados de forma descendente en función de la variable ID de transacción.

```
--
3  -- Crear vista para Marketing
4  • CREATE VIEW InformeTecnico AS
5  SELECT company.company_name Compania, company.country Pais, transaction.id Transaction_ID, transaction.amount, user.name Nombre_Usuario, user.surname Apelli
6  FROM transaction
7  JOIN company ON company.id = transaction.company_id
8  JOIN credit_card ON credit_card.id = transaction.credit_card_id
9  JOIN user ON user.id = transaction.user_id
10 WHERE declined = '0'
11 ORDER BY transaction.id DESC;
12
13 • SELECT * FROM transactions.vistamarketing;
14
```

#	Time	Action	Message	Duration / Fetch
1	11:12:59	CREATE VIEW InformeTecnico AS SELECT company.company_name Compania, company.count...	0 row(s) affected	0.015 sec

Como decia el enunciado, agregue mas datos (pais de la compania, monto de la transaccion y que se haya realizado) para tener mas informacion relevante.

Resultado de la Vista generada

```
12
13 • SELECT * FROM transactions.InformeTecnico;
14
```

Compania	Pais	Transaction_ID	amount	Nombre_Usuario	Apellido_Usuario	iban
Nunc Interdum Incorporated	Germany	FE809ED4-2DB6-55AC-C915-929516E4646B	219.83	Molly	Gilliam	SE2813123487163628531121
Nunc Interdum Incorporated	Germany	FD9CBCCD-8E1E-8DA1-4606-7E3A6F3A5A65	42.32	Linus	Willis	KW9485332754781757886242955643
Malesuada PC	Ireland	FD89D51B-AE8D-77DC-E450-B8083FBD3187	200.72	Hilda	Levy	LT053237077744561475
Neque Tellus Imperdiet Corp.	Ireland	FD2E8957-414B-BEEC-E9AD-59AA7A8A6290	78.29	Hedwig	Gilbert	GE84848451582810541526
Nunc Interdum Incorporated	Germany	FCE2AB9A-271D-2BDC-9E49-8DD92A373391	335.56	Hakeem	Alford	MD1234119525145401270486

InformeTecnico 19 x

#	Time	Action	Message
1	11:14:14	SELECT * FROM transactions.InformeTecnico LIMIT 0, 1000	500 row(s) returned