Sprint 3: Gestió de taules, índex i vistes

Nivell 1

Exercici 1

```sql
CREATE TABLE IF NOT EXISTS credit_card (
        id VARCHAR(255) PRIMARY KEY,
        iban VARCHAR(255) NULL,
        pan VARCHAR(255) NULL,
        pin INT,
        cvv INT,
        expiring_date VARCHAR(255) NULL
        );
select * from credit_card;
```

id	iban	pin	cvv	expiring_date
CcU-2938	R3234563122135768817699999	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
CcU-2994	BH62714428368066765294	7545	595	02/28/22

credit_card 17 ×

Output

Action Output ▼

	#	Time	Action	Message
✓	318	12:57:20	SELECT * from transactions.vistamarketing WHERE country = 'Germany' LIMIT 0, 1000	8 row(s) returned
✓	319	13:02:08	SELECT * FROM transactions.informetecnico ORDER BY id DESC LIMIT 0, 1000	587 row(s) returned
✓	320	13:03:20	SELECT * from transaction Where id = '108B1D1D-5B23-A76C-55EF-C568E49A99DD' LIMIT 0, 1000	1 row(s) returned
✓	321	13:04:45	SELECT * from transaction Where id = '108B1D1D-5B23-A76C-55EF-C568E49A99DD' LIMIT 0, 1000	1 row(s) returned
✓	322	13:17:57	select * from credit_card LIMIT 0, 1000	275 row(s) returned

Exercici 2

```sql
UPDATE credit_card
SET iban = "R3234563122135768817699999"
WHERE id = "CcU-2938";
```

```sql
SELECT iban from credit_card
WHERE id = "CcU-2938";
```

Result Grid | Filter Rows:

iban
R3234563122135768817699999

Exercici 3

```sql
/ EXERCICI 3 /
INSERT INTO company(id) VALUES('b-9999');

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);

SELECT * from transaction
Where id = '108B1D1D-5B23-A76C-55EF-C568E49A99DD';
```

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

```sql
ALTER TABLE credit_card DROP pan;

SELECT * FROM credit_card;
```

Result Grid | Filter Rows: | Edit: | Export/Impor

id	iban	pin	cvv	expiring_date
CcU-2938	R32345631221357681769999	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	PT8780622813509242945 6346	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

```sql
• DELETE FROM transaction
  WHERE id = '02C6201E-D90A-1859-B4EE-88D2986D3B02';
• SELECT * from transaction
  Where id = '02C6201E-D90A-1859-B4EE-88D2986D3B02';
```

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

Exercici 2

```sql
CREATE VIEW VistaMarketing AS
SELECT c.company_name, c.phone, c.country, avg(t.amount)
FROM company AS c
LEFT JOIN transaction as t
ON c.id = t.company_id
GROUP BY c.company_name, c.phone, c.country
ORDER BY avg(t.amount) DESC;


SELECT * from transactions.vistamarketing;
```

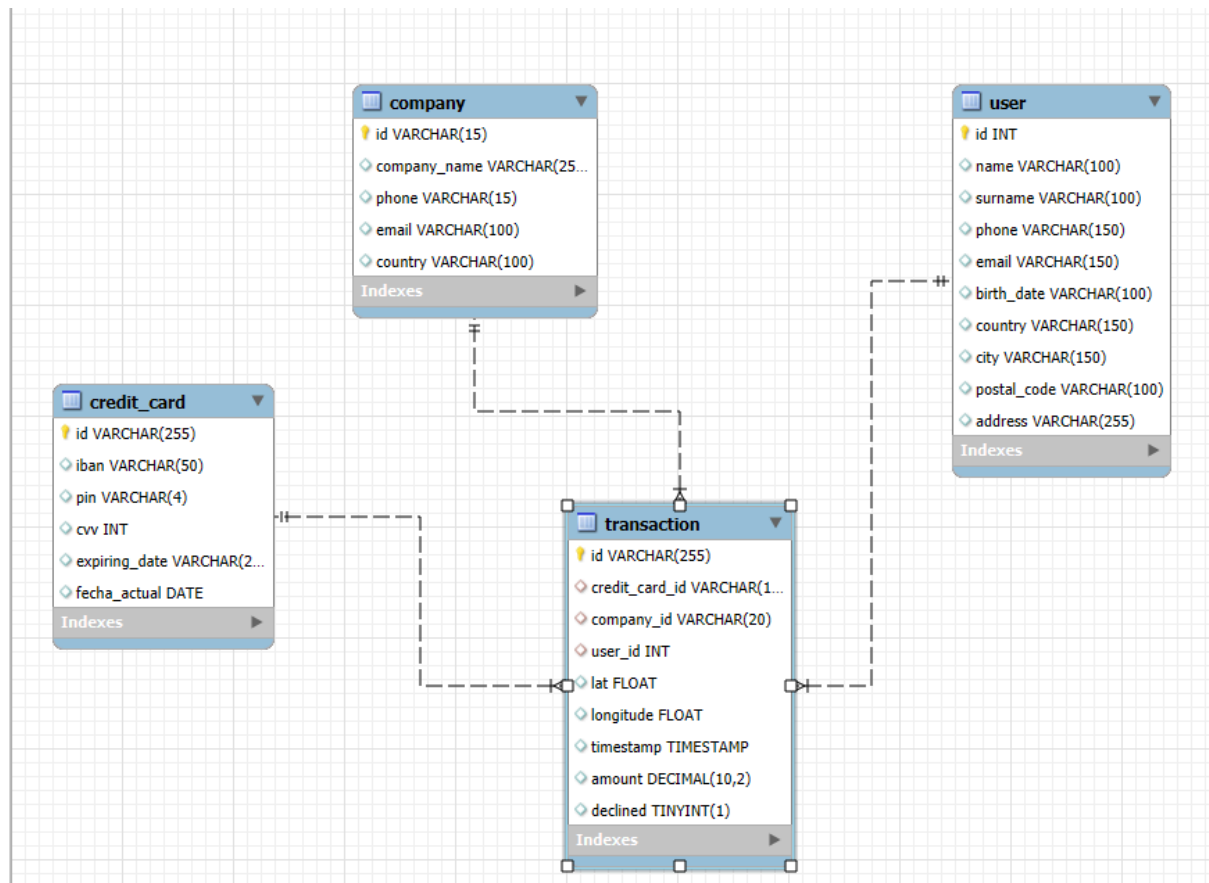| company_name	phone	country	avg(t.amount)
Eget Ipsum Ltd	03 67 44 56 72	United States	473.075000
Non Magna LLC	06 71 73 13 17	United Kingdom	468.345000
Sed Id Limited	07 28 18 18 13	United States	461.210000
Justo Eu Arcu Ltd	08 42 56 71 52	Italy	443.635000
Eget Tincidunt Dui Institute	05 35 93 32 44	Netherlands	442.520000
Viverra Donec Foundation	03 33 12 32 73	United Kingdom	442.280000
Vestibulum Lorem PC	02 02 87 33 40	Belgium	434.060000
Aliquet Diam Limited	02 76 61 47 46	United States	425.640000

Exercici 3

```sql
SELECT * from transactions.vistamarketing
WHERE country = 'Germany';
```

company_name	phone	country	avg(t.amount)
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 3

- `SHOW CREATE TABLE credit_card;`
- `SHOW CREATE TABLE user;`
- `SHOW CREATE TABLE transaction;`

- `ALTER TABLE credit_card`
  `DROP foreign key credit_card_ibfk_1;`
- `ALTER TABLE user DROP foreign key user_ibfk_1;`
- `ALTER TABLE transaction DROP foreign key transaction_ibfk_1;`

- `AlTER TABLE transaction`
  `ADD FOREIGN KEY (credit_card_id) REFERENCES credit_card(id);`
- `AlTER TABLE transaction`
  `ADD FOREIGN KEY (user_id) REFERENCES user(id);`

- `ALTER TABLE credit_card`
  `ADD column fecha_actual DATE;`

- `ALTER TABLE company`
  `DROP website;`

- `ALTER TABLE credit_card MODIFY id varchar(20);`
- `ALTER TABLE credit_card MODIFY iban varchar(50);`
- `ALTER TABLE credit_card MODIFY pin varchar(4);`
- `ALTER TABLE credit_card MODIFY expiring_date varchar(20);`

Nil Regidor Vivas
DA especialització

Per aquesta activitat la complicació va venir per part de la taula company, ja que a l'hora de crear-la no vaig posar la foreing key i, per tant, no sortia connectada amb transaction. Per solucionar-ho vaig haver de modificar la taula i afegir la referència de la foreing key.

També amb l'alter table s'han eliminat (drop), afegit (add) i modificat (modify) columnes i el seu tipus.

Nil Regidor Vivas
DA especialització

Exercici 2

```sql
CREATE VIEW InformeTecnico as
SELECT t.id, u.name, u.surname, c.iban, co.company_name
FROM transaction as t
LEFT JOIN user as u
ON t.user_id = u.id
LEFT JOIN credit_card as c
ON t.credit_card_id = c.id
LEFT JOIN company as co
ON t.company_id = co.id;


SELECT * FROM transactions.informetecnico
ORDER BY id DESC;
```

Result Grid	Filter Rows:		Export:	Wrap Cell Content:
id	name	surname	iban	company_name
FE96CE47-BD59-381C-4E18-E3CA3D44E8FF	Kenyon	Hartman	DO2685476374853747521656889	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-9E49-8DD92A373391	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

informetecnico 12 ×

Output

Action Output

#	Time	Action	Message
✓	627	12:12:25	ALTER TABLE credit_card MODIFY pin varchar(4)	275 row(s) affected Rec
✓	628	12:13:54	ALTER TABLE credit_card MODIFY expiring_date varchar(20)	275 row(s) affected Rec
✓	629	12:48:08	SELECT * FROM transactions.informetecnico ORDER BY id DESC LIMIT 0, 1000	587 row(s) returned
✗	630	12:58:14	ALTER TABLE company DROP website	Error Code: 1091. Can't
✓	631	12:59:45	SELECT * FROM transactions.informetecnico ORDER BY id DESC LIMIT 0, 1000	587 row(s) returned