Sprint 3

Nivell 1
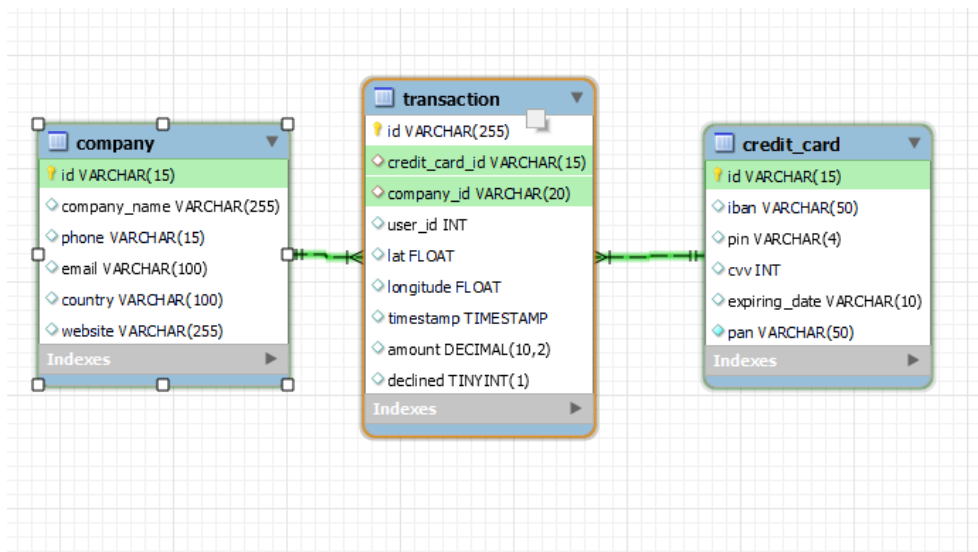
Exercici 1

```
# Nivell 1

# Exercici 1
CREATE TABLE IF NOT EXISTS  credit_card  (
    id VARCHAR(15) PRIMARY KEY,
    iban VARCHAR(50),
    pin varchar(4),
    cvv int,
    exp_date date,
    act_date date
);

alter table credit_card rename column exp_date to expiring_date;
alter table credit_card add column pan varchar(50) not null;
alter table credit_card drop column act_date;

ALTER TABLE `transactions`.`credit_card`
CHANGE COLUMN `expiring_date` `expiring_date` VARCHAR(10) NULL DEFAULT NULL ;

alter table transaction
    add FOREIGN key FK_credit_card_id(credit_card_id)
    references credit_card(id);
```

id	iban	pin	CVV	expiring_date	pan
CcU-2938	TR32345631221357681 7699999	3257	984	10/30/22	5424465566813633
CcU-2945	DO26854763748537475216568689	9080	887	08/24/23	5142423821948828
CcU-2952	BG45IVQL52710525608255	4598	438	06/29/21	4556 453 55 5287
CcU-2959	CR7242477244335841535	3583	667	02/24/23	372461377349375
CcU-2966	BG72LKTQ156276283773 63	4900	130	10/29/24	448566 886747 7265
CcU-2973	PT87806228135092429456346	8760	887	01/30/25	544 58654 54343 384
CcU-2980	DE39241881883086277136	5075	596	07/24/22	402400 7145845969
CcU-2987	GE89681434837748781813	2298	797	10/31/23	3763 747687 76666
CcU-2994	BH62714428368066765294	7545	595	02/28/22	344283273252593
CcU-3001	CY49087426654774581266832110	9562	867	09/16/22	511722 924833 2244
CcU-3008	LU5072166936 16119230	1856	740	04/05/25	4485744464433884
CcU-3015	PS11939821629571596 8342456821	3246	822	01/31/22	3784 662233 17389
CcU-3022	GT91695162850556977423121857	5610	342	04/25/25	5164 1379 4842 3951

Id en la taula credit card és la PK en canvi en la taula transaction és la FK així com id en company és la PK I FK en transaction.

Exercici 2

```
# Exercici 2
select *
from credit_card
where id = 'CcU-2938';
update credit_card  set iban = 'TR3234563122135768176817699999'  where id = 'CcU-2938';
```

Exercici 3

```
INSERT INTO transaction (id, credit_card_id, company_id, user_id, lat, longitude, timestamp, amount, declined)
VALUES ( '108B1D1D-5B23-A76C-55EF-C568E49A99DD', 'CcU-9999', 'b-9999', '999', '829.999', '-117.999', '2021-04-21 08:51:28','111.11', '0');

alter table transaction drop constraint transaction_ibfk_1;
```

Eliminem la relació entre taules I així podem afegir les noves dades

Exercici 4

Exercici 4

```
alter table credit_card drop column pan;
```

id	iban	pin	CVV	expiring_date
CcU-2938	TR323456312213576817699999	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	BG72LKTQ156276283377363	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
CcU-3001	CY49087426654774581266832110	9562	867	09/16/22
CcU-3008	LU507216693616119230	1856	740	04/05/25
CcU-3015	PS11939821629571596834 2456821	3246	822	01/31/22
CcU-3022	GT91695162850556977423121857	5610	342	04/25/25

Nivell 2

Exercici 1

```
37    #Nivell 2
38    #Exercici 1
39  ● DELETE FROM transaction
40        WHERE ID = '02C6201E-D90A-1859-B4EE-88D2986D3B02';
41
42  ● select *from transaction;
```

id	credit_card_id	company_id	user_id	lat	longitude	timestamp	amount	declined
0466A42E-47CF-8D24-FD01-C0B689713128	CcU-4219	b-2302	170	-43.9695	-117.525	2021-07-26 07:29:18	49.53	0
063FBA79-99EC-66FB-29F7-25726D1764A5	CcU-2987	b-2250	275	-81.2227	-129.05	2022-01-06 21:25:27	92.61	0
0668296C-CDB9-A883-76BC-2E4C44F8C8AE	CcU-3743	b-2618	265	-34.3593	-100.556	2022-01-26 02:07:14	394.18	0
06CD9AA5-9B42-D684-DDDD-A5E394FEBA99	CcU-2959	b-2346	92	33.7381	158.298	2021-10-26 23:00:01	279.93	0
07A46D48-31A3-7E87-65B9-0DA902AD109F	CcU-3225	b-2386	272	38.8342	92.1905	2021-06-28 21:11:42	340.87	1
09DE92CE-6F27-2BB7-13B5-9385B2B3B8E2	CcU-3071	b-2298	275	71.1706	10.5757	2021-05-11 20:40:06	303.05	1
0A476ED9-0C13-1962-F87B-D3563924B539	CcU-4359	b-2302	221	-56.4901	114.801	2022-02-26 20:33:54	430.49	0
0BEB80B7-9D66-1707-CE4B-9DC7E71914B5	CcU-3141	b-2338	272	23.3264	-13.6037	2022-03-04 14:54:35	288.81	1
0C7C3A33-9947-3BC1-846D-7BE3D0D17598	CcU-3309	b-2434	272	63.3615	-68.6667	2021-04-10 20:58:41	103.44	1
0CE957A6-CCAA-2B7A-6839-8A4B1B324853	CcU-3435	b-2506	269	-69.3537	-10.26	2022-02-02 07:29:36	428.69	1
0DD2E608-5C9E-D1B3-4999-B99F43AD735A	CcU-2959	b-2234	275	9.68811	130.282	2021-04-17 05:30:17	252.47	1
1017AA59-3D5F-7A4C-1992-D151A8D1FA0A	CcU-3701	b-2618	267	4.27645	-101.554	2021-11-01 01:02:11	447.11	0
1026DA24-8929-31F1-8250-D7BAB05C13D2	CcU-2959	b-2346	92	32.0646	-140.147	2021-12-07 09:30:38	465.31	0

Podem observar com no apareix a la taula els registres del ID demanat.

Exercici 2

```
44      #Exercici 2
45 •    create view VistaMarketing
46          as select company_name, phone, country, avg(amount) as mitjana_compra
47          from company
48          join transaction on company.id = transaction.company_id
49          group by company_id
50          order by mitjana_compra desc
51      ;
52 •    select * from VistaMarketing;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: 𝐈A

company_name	phone	country	mitjana_compra
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
Maecenas Malesuada Fringilla Inc.	09 38 53 76 61	Netherlands	408.620000
Non Ante LLP	08 89 47 65 08	Sweden	407.790000
Egestas Nunc Sed Limited	06 01 02 70 47	Italy	406.110000
Nunc Sit Incorporated	07 28 42 63 63	Norway	405.355000
Magna A Neque Industries	04 14 44 64 62	Australia	396.315000

VistaMarketing 9

Exercici 3

```
54      #Exercici 3
55 •    select * from VistaMarketing
56      where country = 'Germany';
```

Result Grid | Filter Rows: | Export: | Wrap Cell C

company_name	phone	country	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