

## Ejercicio Joins

Notion: [Ejercicio Joins \(notion.so\)](https://www.notion.so/Ejercicio-Joins)

Ejercicio realizado en DBeaver

Script Base de Datos: [Link Script base de datos](#)

1. Seleccionar todos los registros de usuarios con las siguientes columnas (**id, first\_name, last\_name, email**) y obtener las cuentas sin importar si tiene o no cuentas creadas en el banco y mostrar las columnas de (**account\_no y balance**).

```
-- Select and join of tables CLIENTS and ACCOUNTS
select
  clients.id,
  clients.first_name as "nombre",
  clients.last_name as "apellido",
  clients.email,
  accounts.account_no as "cuenta",
  accounts.balance as "saldo"
from
  clients
left join accounts
  on clients.id = accounts.client_id
```

	id	first_name	last_name	email	cuenta	saldo	
1	1	Hector	Hernandez	hector1990@gmail.com	197,996,785	\$500.00	
2	2	Diana	Hernandez	diana90@gmail.com	187,996,786	\$0.00	
3	2	Diana	Hernandez	diana90@gmail.com	187,996,795	\$10,000.00	
4	2	Diana	Hernandez	diana90@gmail.com	197,996,925	\$5,000.00	
5	3	Sandra	Rodriguez	sandra12@gmail.com	187,996,815	\$500.00	
6	3	Sandra	Rodriguez	sandra12@gmail.com	197,996,805	\$0.00	
7	5	Andrea	Salinas	andrea1992@gmail.com	[NULL]	[NULL]	
8	4	Rodrigo	Torres	rtorres01@gmail.com	[NULL]	[NULL]	

2. Seleccionar todas las cuentas y el tipo de cuenta al que corresponde el registro de cuenta. Deberás de agregar las columnas con respecto a la siguiente tabla:

```
-- Select all the accounts (ACCOUNTS) and account types (ACCOUNT_TYPES)
select
    accounts.account_no as "cuentas",
    accounts.client_id as "id cliente",
    account_types.name as "tipo cuenta"
from
    accounts
inner join account_types
    on accounts.type = account_types.id;
```

	123 cuentas T	123 id cliente T	ASC tipo cuenta T	
1	197,996,785	1	credito basico	
2	187,996,786	2	ahorro	
3	187,996,795	2	credito plus	
4	197,996,925	2	debito basico	
5	187,996,815	3	credito basico	
6	197,996,805	3	ahorro	
7	187,996,895	[NULL]	ahorro	
8	197,996,905	[NULL]	ahorro	

3. Selecciona todas las transacciones realizadas, su monto y el tipo de transacción para que el resultado sea similar a la siguiente tabla:

```
-- Select all transactions realized (TRANSACTIONS), amount and type of transaction
select
    transactions.id as "transacción",
    transactions.amount as "monto",
    transactions_types."name" as "tipo de transacción"
from transactions
inner join transactions_types
    on transactions.transaction_type = transactions_types.id
```

	123 transacción T	123 monto T	ASC tipo de transacción T	
1	1	\$500.00	Ahorro	
2	2	\$700.00	Ahorro	
3	3	\$1,000.00	Transferencia	
4	4	\$500.00	Transferencia	

4. Selecciona todas las transacciones realizadas, su monto y todos los tipos de transacciones que coincidan con la transacción realizar para que el resultado sea similar al de la siguiente tabla:

```
-- Select and right join of transactions realized (TRANSACTIONS), amount and
type of transaction
select
    transactions.id as "transacción",
    transactions.amount as "monto",
    transactions_types."name" as "tipo de transacción"
from transactions
right join transactions_types
    on transactions.transaction_type = transactions_types.id
```

	123 transacción	123 monto	ABC tipo de transacción
1	1	\$500.00	Ahorro
2	2	\$700.00	Ahorro
3	3	\$1,000.00	Transferencia
4	4	\$500.00	Transferencia
5	[NULL]	[NULL]	Pago de servicios
6	[NULL]	[NULL]	Pago de credito

5. Crear una vista por cada una de las consultas realizadas en los puntos 1, 2, 3 y 4:
- v\_clients\_accounts

```
---- VIEWS ----
-- View of v_clients_accounts
create view v_clients_accounts as
select
    clients.id,
    clients.first_name as "nombre",
    clients.last_name as "apellido",
    clients.email,
    accounts.account_no as "cuenta",
    accounts.balance as "saldo"
from
    clients
left join accounts
    on clients.id = accounts.client_id

select * from v_clients_accounts;
```

	123 id	ABC nombre	ABC apellido	ABC email	123 cuenta	123 saldo
1	1	Hector	Hernandez	hector1990@gmail.com	197,996,785	\$500.00
2	2	Diana	Hernandez	diana90@gmail.com	187,996,786	\$0.00
3	2	Diana	Hernandez	diana90@gmail.com	187,996,795	\$10,000.00
4	2	Diana	Hernandez	diana90@gmail.com	197,996,925	\$5,000.00
5	3	Sandra	Rodriguez	sandra12@gmail.com	187,996,815	\$500.00
6	3	Sandra	Rodriguez	sandra12@gmail.com	197,996,805	\$0.00
7	5	Andrea	Salinas	andrea1992@gmail.com	[NULL]	[NULL]
8	4	Rodrigo	Torres	rtorres01@gmail.com	[NULL]	[NULL]

- v\_accounts\_types

```
-- View of v_accounts_types
create view v_accounts_types as
select
    accounts.account_no as "cuentas",
    accounts.client_id as "id cliente",
    account_types.name as "tipo cuenta"
from
    accounts
inner join account_types
    on accounts.type = account_types.id;

select * from v_accounts_types;
```

	123 cuentas	123 id cliente	ABC tipo cuenta	
1	197,996,785	1	credito basico	
2	187,996,786	2	ahorro	
3	187,996,795	2	credito plus	
4	197,996,925	2	debito basico	
5	187,996,815	3	credito basico	
6	197,996,805	3	ahorro	
7	187,996,895	[NULL]	ahorro	
8	197,996,905	[NULL]	ahorro	

## c. v\_transactions\_detail

```
-- View of v_transactions_detail
create view v_transactions_detail as
select
    transactions.id as "transacción",
    transactions.amount as "monto",
    transactions_types."name" as "tipo de transacción"
from transactions
inner join transactions_types
    on transactions.transaction_type = transactions_types.id

select * from v_transactions_detail;
```

	123 transacción	123 monto	ABC tipo de transacción	
1	1	\$500.00	Ahorro	
2	2	\$700.00	Ahorro	
3	3	\$1,000.00	Transferencia	
4	4	\$500.00	Transferencia	

## d. v\_transactions\_types\_detail

```
-- View of v_transactions_types_detail
create view v_transactions_types_detail as
select
    transactions.id as "transacción",
    transactions.amount as "monto",
    transactions_types."name" as "tipo de transacción"
from transactions
right join transactions_types
    on transactions.transaction_type = transactions_types.id

select * from v_transactions_types_detail;
```

	123 transacción T	123 monto T	ABC tipo de transacción T	
1	1	\$500.00	Ahorro	
2	2	\$700.00	Ahorro	
3	3	\$1,000.00	Transferencia	
4	4	\$500.00	Transferencia	
5	[NULL]	[NULL]	Pago de servicios	
6	[NULL]	[NULL]	Pago de credito	