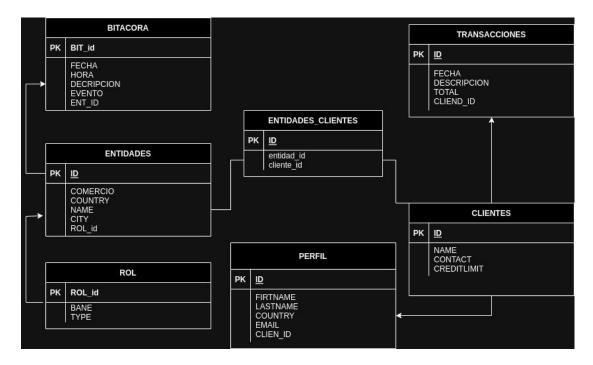
Taller #1

Realizar una base de datos relacional de la imagen adjuntada a continuación, en el cuál aplique los conceptos aprendidos durante la clase sobre Lenguaje de manipulación de datos (DML) y Lenguaje de definición de datos (DDL)

1. Realizar el diagrama entidad relación.



- 2. Realizar la base de datos
- 3. Realizar el proceso de DML y DDL en la base de datos.

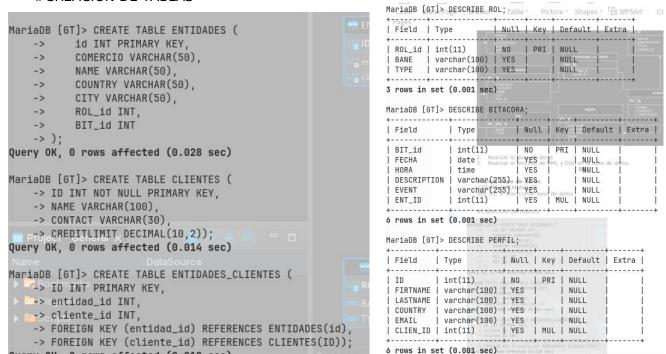
DDL

crear base de datos

CREATE DATABASE GT;

USE GT; # seleccionar base de datos

#CREACION DE TABLAS

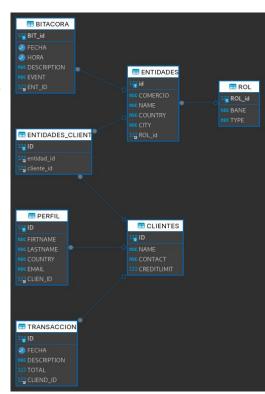


CREACION DE RELACIONES

```
MariaDB [GT]> ALTER TABLE TRANSACCIONES
   -> ADD CONSTRAINT fk_clientes
   -> FOREIGN KEY (CLIEND_ID)
                                                        TRANSACCIONES
                                                                                      CLIENTES
   -> REFERENCES CLIENTES(ID);
Query OK, 0 rows affected (0.031 sec)
Records: 0 Duplicates: 0 Warnings: 0
MariaDB [GT]> ALTER TABLE PERFIL
   -> ADD CLIEN_ID INT;
Query OK, 0 rows affected (0.019 sec)
Records: 0 Duplicates: 0 Warnings: 0
MariaDB [GT]> ALTER TABLE PERFIL
  -> FOREIGN KEY (CLIEN_ID)
                                                          PERFIL
   -> REFERENCES CLIENTES(ID);
ERROR 1805 (HY000): Can't create table `GT`.`PERFIL` (errno: 121 "Duplicate key on write or update")
MariaDB [GT]> ALTER TABLE PERFIL
 -> ADD CONSTRAINT fk_perfiles
-> FOREIGN KEY (CLIEN_ID)
  -> REFERENCES CLIENTES(ID);
Query OK, 0 rows affected (0.033 sec)
Records: 0 Duplicates: 0 Warnings: 0
  2 at tille 7
  Mantaph [GT]> ALTER TABLE ENTIDADES
```

```
-> DROP FOREIGN KEY fk_bitarocas
Query ok 10 rows affected (0.043 sec) ture Shapes
Records: 0 Duplicates: 0 Warnings: 0
MariaDB [GT]> ALTER TABLE ENTIDADES
   -> DROP COLUMN BIT_id;
Query OK, 0 rows affected (0.047 sec)
Records: 0 Duplicates: 0 Warnings: 0
                                           # CREACIC
MariaDB [GT]> ALTER TABLE BITACORA
    -> ADD ENT_ID INT;
Query OK, 0 rows affected (0.017 sec) -> ADD CONSTRAINT
Records: 0 Duplicates: 0 Warnings: 0
 MariaDB [GT]> ALTER TABLE BITACORA Query OK, 8 rows at -> ADD CONSTRAINT fk ent
     -> ADD CONSTRAINT fk_ent
     -> FOREIGN KEY (ENT_ID)
     -> REFERENCES ENTIDADES(id);
 Query OK, 0 rows affected (0.030 sec)
 Records: 0 Duplicates: 0 Warnings: 0
```

luego de todas las relaciones y creacion de tablas -->



DML

#manipulacion de datos

```
MariaDB [GT] > SELECT * FROM GT.ENTIDADES:
| id | COMERCIO | NAME | COUNTRY | CITY | ROL_id |
| 1 | BG MAÑANITAS | JOSEFINA VERGARA | PANAMA | PANAMA | 1 |
3 rows in set (0.001 sec)
MariaDB [GT]> SELECT * FROM GT.ROL;
+----+
| ROL_id | BANE | TYPE |
+----+
   1 | BANCO GENERAL | SF |
     2 | SCOTIA BANK | SF
                                              #manipulacion de datos
     3 | CREDICORP BANK | SF
     4 | SUPER XTRA | VA
+----+
MariaDB [GT] > SELECT * FROM CLIENTES;
Empty set (0.000 sec)
MariaDB [GT]> INSERT INTO CLIENTES (ID, NAME, CONTACT, CREDITLIMIT) VALUE (
   -> 1, 'BRYAN CRUZ', '60513722', 1000000);
Query OK, 1 row affected (0.003 sec)
MariaDB [GT]> INSERT INTO CLIENTES (ID, NAME, CONTACT, CREDITLIMIT) VALUE
   -> (2,'FERNANDO','3242342',12314),
   -> (3,'MIGUEL','394934',150.25),
   -> (4, 'ANTONIA VERGARA', '123124', 90000);
Query OK, 3 rows affected (0.006 sec)
                                           #manipulacion de datos
Records: 3 Duplicates: 0 Warnings: 0
MariaDB [GT]> INSERT INTO ENTIDADES_CLIENTES (ID, entidad_id, cliente_id) VALUETE
   -> (1,1,1),
   -> (2,1,2),
                                          MariaDB [ST]> INSERT INTO CLIENTES
   -> (3,1,4),
                                           -> 1,'BRYAN CRUZ','68513722',10
   -> (4,3,3);
                                          Query OK, 1 row affected (0.003 sec
Query OK, 4 rows affected (0.005 sec)
                                        MariaDB [GT]> INSERT INTO CLIENTES
Records: 4 Duplicates: 0 Warnings: 0
MariaDB [GT]> INSERT INTO PERFIL (ID, FIRTNAME, LASTNAME, COUNTRY, EMAIL, CLIEN_ID) VALUE
   -> (1, 'BRYAN', 'CRUZ', 'PANAMA', 'BRYAN.CRUZ@UIP:EDU.PA';1),-------
-> (2, 'FERNANDO', 'GONZALES', 'PANAMA', 'FEGONZALES@GMAIL.COMO, 2) NERAL SF
-> (3, 'MIGUEL', 'CASTRELLON', 'USA', 'MIGCASTR21@OUTLOOK.ESG 3) BANK SF
-> (4, 'ANTONIA', 'VERGARA', 'PANAMA', 'ANVEQWEE@GMAIL.COM', 'A) LOOPE BANK SF
Query OK, 4 rows affected (0.004 sec)

Peconds: (4 Duplicates: 9 Wannings: 9
Records: 4 Duplicates: 0 Warnings: 0
```

```
MariaDB [GT] > SELECT COUNT(*) FROM GT.TRANSACCIONES;
 | COUNT(*) |
 +----+
                                                                           DML
            0 I
 +----+
 1 row in set (0.000 sec) Mariade [61] SELECT * FROM ST. ENTIDADES;
                         MariaDB [GT]> INSERT INTO TRANSACCIONES d(ID, FECHA, DESCRIPTION, TOTAL, CLIEND_ID) VALUES

1 row in set (0.000 set
     -> (1,'2024-01-27','pago de mensualidad por servicios financieros',200,1),
-> (2,'2024-01-27','pago de mensualidad internet',45,63,2), ROLLIG
-> (3,'2024-01-27','pago de quincena',150,3);
PROBANA PANAMA 1

PROBANA PANAMA 1

POPOS: 3 Duplicates: 0 Warnings: 0 ANTONIO SOLIS PANAMA PANAMA 1
 Query OK, 3 rows affected (0.004 sec)
 Records: 3 Duplicates: 0 Warnings: 0
| DESCRIPTION NA VA
| 1 | 2024-01-27 00:00:00 | pago de mensualidad por servicios financieros | 200.00 | 1 | 2 | 2024-01-27 00:00:00 | pago de mensualidad internet | 45.63 | 2 | 3 | 2024-01-27 00:00:00 | pago de quincena | 150.00 | 3 |
3 rows in set (0.000 sec)

-> (2, "FERMAND", '19245542', 123145,
-> (3, "FERMAND", '1924541', 150.25),
-> (4, "ARTONIA VERMAND", '1924541', 190.25);
```

esto muestra todos los perfiles de clientes de las entidades con roles de tipo SF

-> ->	OB [GT]> SELECT * FROM PERFIL INNER JOIN ROL ON WHERE ROL.TYPE =	I ROL 10 I BANE TYPE	[PANAHA] 4]			
ID	FIRTNAME LASTNA	4	CLIEN_ID	ROL_id	BANE	TYPE
1	BRYAN CRUZ	PANAMA BRYAN, CRUZ@UIP.ED	J.PA 1	1	BANCO GENERAL	SF
2	FERNANDO GONZAL	ES PANAMA FEGONZALES@GMAIL.	COM 2	2	SCOTIA BANK	SF
3	MIGUEL CASTRE	LLON TOUSA (0.000 T) MIGCASTR21@OUTLOOK	K.ES 3	3	CREDICORP BANK	I SF