

Universidad de Costa Rica
Administración de bases de datos
Mario Quirós Luna B76090
Laboratorio 2

1) Creación de base de datos para el curso.

- a. Se creó la base de datos llamada "IF5100_2022_B76090".

2) Base de datos funcional?.

- a. La base de datos funciona correctamente, como se vera en los siguientes puntos.

3) Ingresar datos Dummy.

- a. Se ingresaron varios registros en cada tabla, en las imágenes se muestran solo algunos por razones practicas para mostrar la información.

100 %

Results

Messages

| CLIENT_ID | NAME | INDUSTRY_DESC | IS_ACTIVE | IS_DELETED | LAST_MODIFIED_BY | LAST_MODIFIED_DATE | | | | | |
|---------------------|--------------------|-------------------|---------------------|------------------|-------------------------|-------------------------|-------------------------|------------------|-------------------------|------------------|-------------------------|
| 1 1000 | BAC | Financiero | 1 | 0 | laboratorios | 2022-04-04 10:58:00.927 | | | | | |
| 2 1001 | BN | Financiero | 1 | 0 | laboratorios | 2022-04-04 10:58:00.927 | | | | | |
| ADDRESS_ID | DETAILS | STATE_PROVINCE_ID | IS_ACTIVE | IS_DELETED | LAST_MODIFIED_BY | LAST_MODIFIED_DATE | | | | | |
| 1 1000 | San Pedro | 1 | 1 | 0 | laboratorios | 2022-04-04 10:51:06.970 | | | | | |
| 2 1001 | Paseo la reforma | 2 | 1 | 0 | laboratorios | 2022-04-04 10:51:06.970 | | | | | |
| COUNTRY_ID | COUNTRY_NAME | IS_ACTIVE | IS_DELETED | LAST_MODIFIED_BY | LAST_MODIFIED_DATE | | | | | | |
| 1 1 | Costa Rica | 1 | 0 | laboratorios | 2022-04-04 10:36:51.610 | | | | | | |
| 2 2 | Estados Unidos | 1 | 0 | laboratorios | 2022-04-04 10:37:09.657 | | | | | | |
| CREDIT_CARD_ID | CREDIT_CARD_NUMBER | CREDIT_CARD_BRAND | EXPIRATION_MONTH | EXPIRATION_YEAR | CVV | IS_ACTIVE | IS_DELETED | LAST_MODIFIED_BY | LAST_MODIFIED_DATE | | |
| 1 5000 | 5522443888288082 | 1 | 9 | 2024 | 717 | 1 | 0 | laboratorios | 2022-04-02 13:42:32.753 | | |
| 2 5001 | 6461681095399517 | 2 | 4 | 2025 | 474 | 1 | 0 | laboratorios | 2022-04-02 13:42:32.863 | | |
| CUSTOMER_ACCOUNT_ID | CLIENT_ID | CUSTOMER_NAME | CUSTOMER_LAST_NAME | IS_ACTIVE | IS_DELETED | LAST_MODIFIED_BY | LAST_MODIFIED_DATE | | | | |
| 1 1 | 1000 | Mario | Quirós Luna | 1 | 0 | laboratorios | 2022-04-04 11:11:32.470 | | | | |
| 2 2 | 1000 | Isabel | Portugues Calderón | 1 | 0 | laboratorios | 2022-04-04 11:11:32.470 | | | | |
| CUSTOMER_ACCOUNT_ID | ADDRESS_ID | IS_ACTIVE | IS_DELETED | LAST_MODIFIED_BY | LAST_MODIFIED_DATE | | | | | | |
| 1 1 | 1000 | 1 | 0 | laboratorios | 2022-04-07 20:21:15.460 | | | | | | |
| 2 2 | 1000 | 1 | 0 | laboratorios | 2022-04-07 20:21:15.460 | | | | | | |
| CUSTOMER_ACCOUNT_ID | CREDIT_CARD_ID | IS_ACTIVE | IS_DELETED | LAST_MODIFIED_BY | LAST_MODIFIED_DATE | | | | | | |
| 1 1 | 5000 | 1 | 0 | laboratorios | 2022-04-07 20:24:37.823 | | | | | | |
| 2 2 | 5001 | 1 | 0 | laboratorios | 2022-04-07 20:24:37.823 | | | | | | |
| CUSTOMER_ACCOUNT_ID | PHONE_ID | IS_ACTIVE | IS_DELETED | LAST_MODIFIED_BY | LAST_MODIFIED_DATE | | | | | | |
| 1 1 | 1 | 1 | 0 | laboratorios | 2022-04-06 11:49:17.703 | | | | | | |
| 2 1 | 4 | 1 | 0 | laboratorios | 2022-04-06 12:12:08.020 | | | | | | |
| PHONE_ID | PHONE_NUMBER | IS_ACTIVE | IS_DELETED | LAST_MODIFIED_BY | LAST_MODIFIED_DATE | | | | | | |
| 1 1 | 87111111 | 1 | 0 | laboratorios | 2022-04-04 10:53:11.127 | | | | | | |
| 2 2 | 87222222 | 1 | 0 | laboratorios | 2022-04-04 10:53:11.127 | | | | | | |
| STATE_PROVINCE_ID | STATE_NAME | COUNTRY_ID | IS_ACTIVE | IS_DELETED | LAST_MODIFIED_BY | LAST_MODIFIED_DATE | | | | | |
| 1 1 | San Jose | 1 | 1 | 0 | laboratorios | 2022-04-04 10:42:15.520 | | | | | |
| 2 2 | Mexico DC | 3 | 1 | 0 | laboratorios | 2022-04-04 10:43:48.263 | | | | | |
| CURRENCY_ID | CURRENCY_NAME | | | | | | | | | | |
| 1 1 | Euro | | | | | | | | | | |
| 2 2 | Dolar | | | | | | | | | | |
| EVENT_TYPE_ID | EVENT_TYPE | | | | | | | | | | |
| 1 1 | Compra | | | | | | | | | | |
| 2 2 | Retiro | | | | | | | | | | |
| EVENT_ID | CLIENT_ID | EVENT_TYPE_ID | CUSTOMER_ACCOUNT_ID | AMOUNT | PAYMENT_TYPE_ID | CURRENCY_ID | SUBMITTED_DATE | IS_ACTIVE | IS_DELETED | LAST_MODIFIED_BY | LAST_MODIFIED_DATE |
| 1 1000 | 1003 | 3 | 144 | 97167.0000000000 | 4 | 1 | 2022-04-18 11:09:09.573 | 1 | 0 | laboratorios | 2022-04-18 11:09:09.573 |
| 2 1003 | 1002 | 3 | 254 | 94596.0000000000 | 3 | 6 | 2022-04-18 11:09:56.420 | 1 | 0 | laboratorios | 2022-04-18 11:09:56.420 |
| PAYMENT_TYPE_ID | PAYMENT_TYPE | IS_ACTIVE | IS_DELETED | LAST_MODIFIED_BY | LAST_MODIFIED_DATE | | | | | | |
| 1 1 | Bitcoin | 1 | 0 | laboratorios | 2022-04-18 10:26:00.057 | | | | | | |
| 2 2 | Paypal | 1 | 0 | laboratorios | 2022-04-18 10:26:00.057 | | | | | | |
| 3 3 | Tarjeta de credito | 1 | 0 | laboratorios | 2022-04-18 10:26:00.057 | | | | | | |
| 4 4 | Tarjeta de debito | 1 | 0 | laboratorios | 2022-04-18 10:26:00.057 | | | | | | |
| 5 5 | Criptomonedas | 1 | 0 | laboratorios | 2022-04-18 10:26:00.057 | | | | | | |

4) Procedimientos almacenados para automatizar insercion de “Cuentas Cliente” nuevas y eventos nuevos.





a. Cuentas cliente.

```
-- =====
-- Author:      Mario Quiros Luna
-- Create date: 20/04/2022
-- Description: Simula la insercion de cuentas cliente en la base de datos.
--             Usando una tabla con nombres dummy y otra con apellidos dummy para crear nombres aleatorios.
-- =====
CREATE PROCEDURE FINANCIAL_DEPOSIT.sp_INSERT_CUSTOMER_ACCOUNT MOCK
AS
BEGIN
    INSERT INTO [CUSTOMERS].[tb_CUSTOMER_ACCOUNTS] (
        [CLIENT_ID], [CUSTOMER_NAME], [CUSTOMER_LAST_NAME], [IS_ACTIVE], [IS_DELETED], [LAST_MODIFIED_BY], [LAST_MODIFIED_DATE]
    ) VALUES (
        FLOOR(RAND()*(1003-1000+1)+1000),
        (
            SELECT
                first_name
            FROM MOCKS.MOCK_DATA_FIRST_NAMES
            WHERE ID = FLOOR(RAND()*(500-1+1)+1)
        ),
        (
            SELECT
                last_name
            FROM MOCKS.MOCK_DATA_LAST_NAMES
            WHERE ID = FLOOR(RAND()*(500-1+1)+1)
        ),
        1,
        0,
        SUSER_NAME(),
        GETDATE());
END
GO
```

b. Eventos.

```
-- =====
-- Author:      Mario Quiros Luna
-- Create date: 20/04/2022
-- Description: Simula la insercion de eventos en la base de datos.
-- =====
CREATE PROCEDURE FINANCIAL_DEPOSIT.sp_INSERT_EVENTS MOCK
AS
BEGIN
    INSERT INTO [FINANCIAL_DEPOSIT].[tb_EVENTS]
    (
        [CLIENT_ID]
        , [EVENT_TYPE_ID]
        , [CUSTOMER_ACCOUNT_ID]
        , [AMOUNT]
        , [PAYMENT_TYPE_ID]
        , [CURRENCY_ID]
        , [SUBMITTED_DATE]
        , [IS_ACTIVE]
        , [IS_DELETED]
        , [LAST_MODIFIED_BY]
        , [LAST_MODIFIED_DATE]
    )
    VALUES
    (
        FLOOR(RAND()*(1003-1000+1)+1000) --ID DE LOS BANCOS DE 1000 A 1003
        , FLOOR(RAND()*(3-1+1)+1) --ID DEL TIPO DE EVENTO DE 1 A 3
        , FLOOR(RAND()*(303-1+1)+1) --ID DEL CLIENTE QUE REALIZA EL EVENTO
        , FLOOR(RAND()*(100000-1000+1)+1000) --SIMULACION DE UN MONTO
        , FLOOR(RAND()*(5-1+1)+1) --ID DE TIPO DE PAGO
        , FLOOR(RAND()*(6-1+1)+1) --ID DE DIVISA UTILIZADA
        , GETDATE() --FECHA A LA QUE SE REALIZA EL EVENTO
        , 1 --ACTIVO
        , 0 --BORRADO
        , USER_NAME() --ULTIMA PERSONA QUE MODIFICO
        , GETDATE() --ULTIMA HORA DED MODIFICACION
    )
END
GO
```

5) Crear un “JOB” que permita simular el funcionamiento de un ambiente de producción.

| | | | |
|---|---------------------------------|----------------------|----------------------|
|  | Success | 2 Total 2 Success | 0 Error 0 Warning |
| Details: | | | |
|  | Action | Status | Message |
|  | Start Job 'INSERT_CUSTOMERS_... | Success | |
|  | Execute job 'INSERT_CUSTOMER... | Success | |
| <div>Close</div> | | | |

