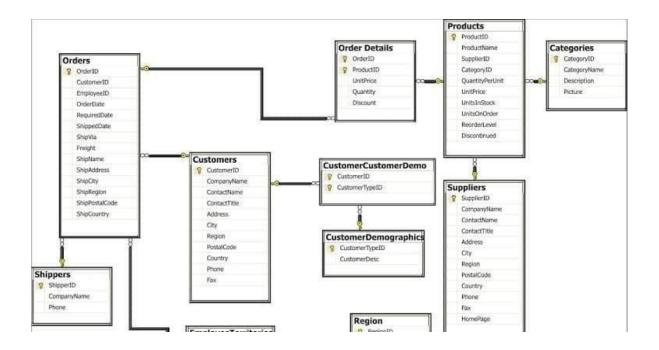# Materia: Seguridad de Base de Datos



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1. **Creación de un nuevo esquema.**

```
CREATE SCHEMA SGBD_CLASE
GO
```

```
Commands completed successfully.

Completion time: 2021-02-28T13:29:54.6109732-06:00
```

2. **creación de nueva tabla que este contenida en nuestro nuevo esquema.**

```
CREATE TABLE SGBD_CLASE.BD_VIERNES
(
    ID INT,
    NOMBRE VARCHAR(50)
)
GO
```

```
Commands completed successfully.

Completion time: 2021-02-28T13:30:17.1180713-06:00
```

3. **Consulta de nuestra nueva tabla.**

```
SELECT * FROM SGBD_CLASE.BD_VIERNES
GO
```

| ID | NOMBRE |
|----|--------|

4. **Copia de respaldo de una tabla.**

```
SELECT * INTO SGBD_CLASE.CLIENTES FROM Customers
GO
```

```
(91 rows affected)

Completion time: 2021-02-28T13:32:26.1188275-06:00
```

5. **Creación de un procedimiento almacenado.**

```
CREATE PROCEDURE SGBD_CLASE.CONSULTA_COMPLETA
AS
BEGIN
    SELECT
        ProductName 'Producto', Products.UnitPrice 'Precio', Categories.CategoryName 'Categoria'
    FROM
        Products, Categories
    WHERE Products.CategoryID=Categories.CategoryID
    ORDER BY UnitPrice
END
GO
```

```
Commands completed successfully.

Completion time: 2021-02-28T13:32:47.8185564-06:00
```

| | Producto | Precio | Categoria |
|---|---|---|---|
| 1 | Geitost | 2.50 | Dairy Products |
| 2 | Guaraná Fantástica | 4.50 | Beverages |
| 3 | Konbu | 6.00 | Seafood |
| 4 | Filo Mix | 7.00 | Grains/Cereals |
| 5 | Tourtière | 7.45 | Meat/Poultry |
| 6 | Rhönbräu Klosterbier | 7.75 | Beverages |
| 7 | Tunnbröd | 9.00 | Grains/Cereals |
| 8 | Teatime Chocolate Biscuits | 9.20 | Confections |
| 9 | Zaanse koeken | 9.50 | Confections |
| 10 | Rogede sild | 9.50 | Seafood |
| 11 | Jack's New England Clam Chowder | 9.65 | Seafood |
| 12 | Sir Rodney's Scones | 10.00 | Confections |
| 13 | Aniseed Syrup | 10.00 | Condiments |
| 14 | Longlife Tofu | 10.00 | Produce |
| 15 | Spegesild | 12.00 | Seafood |

**6. Creación de un procedimiento almacenado que realice la función de Insertar, Actualizar o eliminar.**

```sql
CREATE PROCEDURE SGBD_CLASE.SP_IUDCliente
@Sentencia VARCHAR(50),
@CustomerID nchar(5),
@CompanyName nvarchar(40) NULL,
@ContactName nvarchar(30) NULL,
@ContactTitle nvarchar(30) NULL,
@Address nvarchar(60) NULL,
@City nvarchar(15) NULL,
@Region nvarchar(15),
@PostalCode nvarchar(10) NULL,
@Country nvarchar(15) NULL,
@Phone nvarchar(24) NULL,
@Fax nvarchar(24) NULL
AS
BEGIN

    IF @Sentencia='INSERT'
    BEGIN
        INSERT INTO SGBD_CLASE.CLIENTES
        VALUES(@CustomerID,@CompanyName,@ContactName,@ContactTitle,@Address,@City,@Region,@PostalCode,@Country,@Phone,@Fax)
    END

    ELSE IF @Sentencia='UPDATE'
    BEGIN
        UPDATE SGBD_CLASE.CLIENTES
        SET
            ContactName=@ContactName
        WHERE CustomerID=@CustomerID
    END

    ELSE IF @Sentencia='DELETE'
    BEGIN
        DELETE SGBD_CLASE.CLIENTES
        WHERE CustomerID=@CustomerID
    END

    ELSE
    BEGIN
        PRINT 'No se encontro ninguna opcion con la descripcion '+@Sentencia
    END
END
GO
```

```sql
EXEC SGBD_CLASE.SP_IUDCliente 'Insert','HOLA','FIME','ROBERTO','AGENTE','NL','MTY','D','67250','MEXICO','0000000000','ROBERTO@GMAIL.COM'
EXEC SGBD_CLASE.SP_IUDCliente 'UPDATE','HOLA','','ROBERTO FERNANDEZ','','','','','','','',''
EXEC SGBD_CLASE.SP_IUDCliente 'DELETE','HOLA','','','','','','','','','',''
EXEC SGBD_CLASE.SP_IUDCliente 'NoExiste','HOLA','','','','','','','','','',''
```

```
Commands completed successfully.

Completion time: 2021-02-28T13:33:33.4052512-06:00
```

```
(1 row affected)

(1 row affected)

(1 row affected)
No se encontro ninguna opcion con la descripcion NoExiste

Completion time: 2021-02-28T13:33:49.2695073-06:00
```

## 7. Creación de un procedimiento almacenado que genere una vista.

```sql
CREATE PROCEDURE SGBD_CLASE.sp_CreateView1997
AS
BEGIN
    IF (EXISTS(SELECT * FROM INFORMATION_SCHEMA.VIEWS WHERE TABLE_SCHEMA='SGBD_CLASE' AND TABLE_NAME='View1997'))
    BEGIN
        DROP VIEW SGBD_CLASE.View1997
    END
    DECLARE @sentencia nvarchar(1000)
    SET @sentencia='CREATE VIEW SGBD_CLASE.View1997 AS
        SELECT
            (SELECT Employees.FirstName+CHAR(32)+Employees.LastName FROM Employees WHERE Orders.EmployeeID=Employees.EmployeeID) AS "Nombre Empleado",
            ProductName,
            (SELECT CategoryName FROM Categories WHERE Categories.CategoryID=Products.CategoryID) "Categoria"
        FROM
            [Order Details], Orders,Products

        WHERE[Order Details].OrderID in(SELECT Orders.OrderID FROMOrders WHERE YEAR(OrderDate)=1997)
            and  [Order Details].OrderID=Orders.OrderID
            and [Order Details].ProductID=Products.ProductID'
    EXEC sp_executesql @sentencia
END
```

```
Commands completed successfully.

Completion time: 2021-02-28T13:34:12.6554844-06:00
```

## 8. Copia de una tabla => validar que, si existe se debe borrar para volver a crear

```sql
IF (EXISTS(SELECT * FROM INFORMATION_SCHEMA.TABLES WHERE TABLE_NAME='Categorias' and TABLE_SCHEMA='SGBD_CLASE'))
BEGIN
    DROP TABLE SGBD_CLASE.Categorias
END
SELECT * INTO SGBD_CLASE.Categorias FROM [dbo].[Categories]
```

```
(8 rows affected)

Completion time: 2021-02-28T13:40:39.4343330-06:00
```