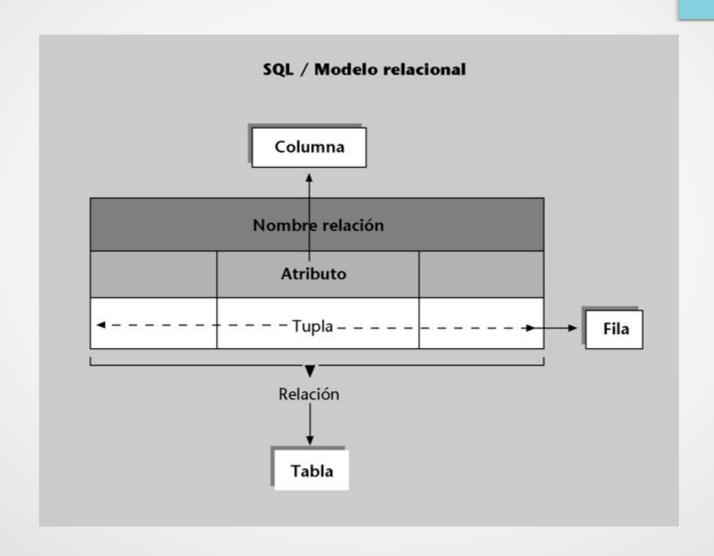
El Lenguaje SQL

Notación



Notación

Sentencias de Definición

Creación

- CREATE SCHEMA
- DROP SCHEMA
- CREATE TABLE
 - Tipos de datos (VARCHAR, INT, NUMERIC, DATE)
 - Restricciones (NN, UN, PK)
- ALTER TABLE
- DROP TABLE
- CREATE VIEW
- DROP VIEW

Claves

- Clave primaria
- Clave foránea
- Modificación y borrado (RESTRICT, CASCADE, SET NULL)

Sentencias de Manipulación

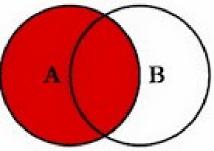
ABM

- INSERT INTO
- DELETE FROM
- UPDATE

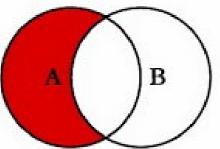
Consulta

- SELECT
- WHERE
 - Operadores (=, <, >, NOT, AND, OR)
- DISTINCT
- Agregación (COUNT, SUM, MIN, MAX, AVG)
- Subconsultas
- BETWEEN
- IN
- LIKE
- IS [NOT] NULL
- ORDER BY
- GROUP BY | HAVING

Uniones



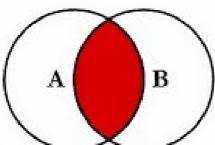
SELECT <select list> FROM TableA A LEFT JOIN TableB B ON A.Key = B.Key



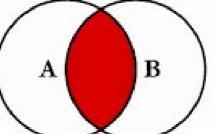
SELECT <select list> FROM TableA A LEFT JOIN TableB B ON A.Key \equiv B.Key WHERE B.Key IS NULL

> SELECT <select_list> FROM TableA A FULL OUTER JOIN TableB B ON A.Key = B.Key

SQL JOINS

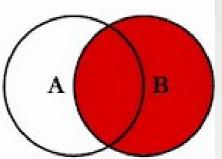


SELECT <select_list> FROM TableA A INNER JOIN TableB B ON A.Key = B.Key

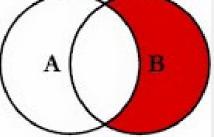


SELECT <select_list> FROM TableA A RIGHT JOIN TableB B ON A.Key \equiv B.Key WHERE A.Key IS NULL





SELECT <select list> FROM TableA A RIGHT JOIN TableB B ON A.Key = B.Key



SELECT <select_list> FROM TableA A FULL OUTER JOIN TableB B ON A.Key \equiv B.Key WHERE A.Key IS NULL OR B.Key IS NULL

@ C.L. Moffart, 2008

Uniones

UNION

Sentencias de Control

Transacciones

Una Transacción es un unidad de trabajo lógica, es decir, un conjunto de sentencias que e ejecutran como si fuesen una sola. En general, las sentencias que forman parte de una Transacción se interrelacionan entre sí, y no tiene sentido que se ejecut una sin que se ejecuten las demás.

- Iniciar Transacción: SET TRANSACTION {READ ONLY| READ WRITE},
- Finalizar Transacción: {COMMIT|ROLLBACK};

Autorizaciones

```
GRANT privilegios ON objeto TO usuarios
[WITH GRANT OPTION];
```

- privilegios: ALL PRIVILEGES, USAGE, SELECT, INSERT, UPDATE, DELETE
- objeto: DOMAIN, TABLE, VIEW
- [WITH GRANT OPTION]

Desautorizaciones

```
REVOKE [GRANT OPTION FOR] privilegios ON objeto FRO
usuarios [RESTRICT|CASCADE];
```

- pivilegios, objeto y usuarios
- [GRANT OPTION FOR]
- CASCADE
- RESTRICT