Banco de Dados II

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Na aula de hoje

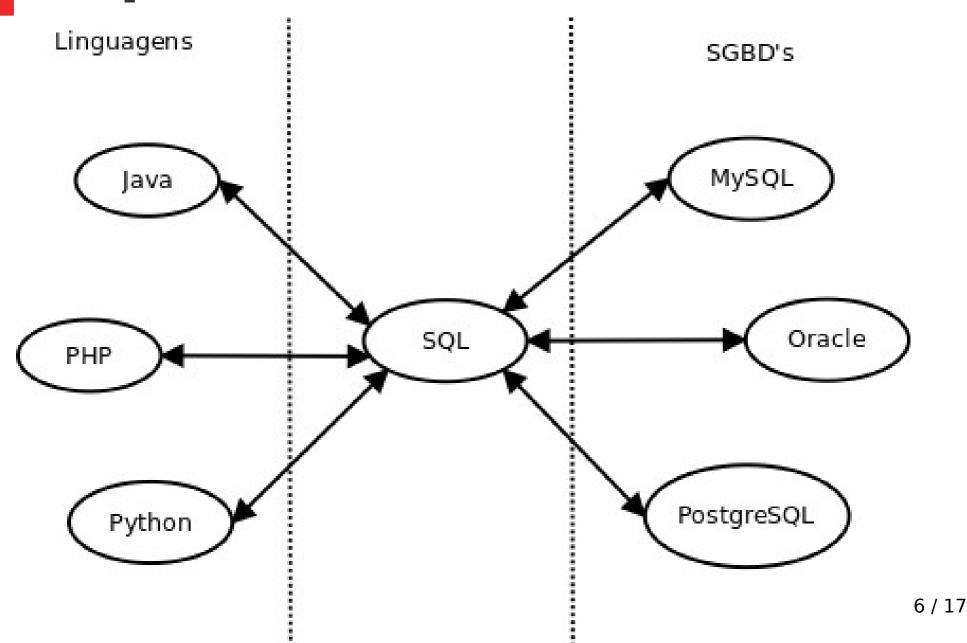
Revisão sobre SQL

Para que existe o SQL?

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R: Padronizar a comunicação com o banco de dados facilitando o desenvolvimento de software. Na prática também facilita a troca de tecnologias.

Importância do SQL



Subconjuntos de SQL

- DDL (Data Definition Language): CREATE,
 DROP e ALTER
- DML (Data Manipulation Language): INSERT, UPDATE, DELETE
- DCL (Data Control Language): GRANT, REVOKE
- DTL (Data Transaction Language): BEGIN WOK, COMMIT, ROLLBACK
- DQL (Data Query Language): SELECT

CREATE

- CREATE DATABASE nome;
- CREATE TABLE table name(column1 datatype, column2 datatype, column3 datatype, columnN datatype, PRIMARY KEY(one or more columns)

INSERT

 INSERT INTO TABLE_NAME (column1, column2, column3,...columnN) VALUES (value1, value2, value3,...valueN);

SELECT

- SELECT column1, column2, columnN FROM table_name;
- SELECT column1, column2, columnN
 FROM table_name
 WHERE [search condition]

UPDATE

 UPDATE table_name SET column1 = value1, column2 = value2...., columnN = valueN WHERE [condition];

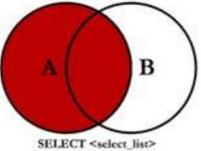
(sem o WHERE atualiza todos os registros)

DELETE

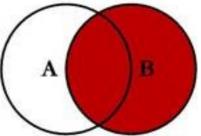
DELETE FROM table_name WHERE [condition];

(sem o WHERE deleta todos os registros!!!)

Joins = Junção

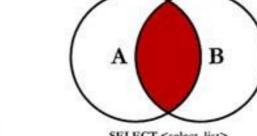


SQL JOINS

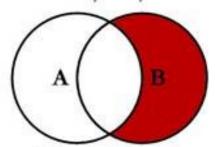


SELECT <select_list> FROM TableA A RIGHT JOIN TableB B ON A.Key = B.Key

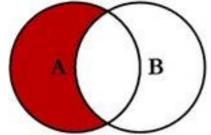
SELECT <select_list> FROM TableA A LEFT JOIN TableB B ON A.Key = B.Key



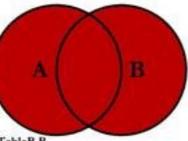
SELECT <select_list>
FROM TableA A
INNER JOIN TableB B
ON A.Key = B.Key



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



SELECT <select_list>
FROM TableA A
LEFT JOIN TableB B
ON A.Key = B.Key
WHERE B.Key IS NULL.



A B

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

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

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Operação Cross Join

Também chamada de junção cruzada ou ainda de produto cartesiano

Dado:

Tabela A

ColunaA

1 2

Tabela B

ColunaB

Α

В

C

	ColunaA	ColunaB
	1	A
A X B =	1	В
	1	C
	2	A
	2	В
	2	С

Outros tipos de join

 https://www.devmedia.com.br/sql-joinentenda-como-funciona-o-retorno-dosdados/31006

Referências

- https://pt.wikipedia.org/wiki/SQL
- https://www.tutorialspoint.com/postgresql/ postgresql_delete_query.htm