

Banco de Dados

AULA 5 – CONSULTAS  
SQL

# Recursos das instruções SQL SELECT

Projeção


Tabela 1

Seleção


Tabela 1

Join


Tabela 1


Tabela 2

# Apelidos para as colunas

```
SELECT firstname AS name, commission comm  
FROM employee;
```

```
SELECT firstname "Name", salary*12 AS  
"Annual Salary"  
FROM employee
```

# Strings

```
SELECT e.lastname || ' is a ' || j.name  
AS "Employee Details"  
  
FROM employee e, job j  
  
WHERE employee.job_id = job.id;
```

# Caracteres e datas

```
SELECT lastname, job_id, department_id  
FROM employee  
WHERE lastname = 'Souza';
```

```
SELECT lastname  
FROM employee  
WHERE hire = '2012-12-15';
```

# Operadores de comparação

Operador	Significado
=	Igual a
>	Maior que
>=	Maior que ou igual a
<	Menor que
<=	Menor que ou igual a
<>	Diferente de
BETWEEN ...AND...	Entre dois valores (inclusive)
IN (set)	Corresponde a qualquer lista de
LIKE	Corresponde a um padrão de
IS NULL	É um valor nulo

# Operadores de comparação

```
SELECT lastname, salary  
FROM employee  
WHERE salary <= 3000;
```

```
SELECT lastname, salary  
FROM employee  
WHERE salary BETWEEN 2500 AND 3500;
```

# Operadores de comparação

```
SELECT lastname, salary  
FROM employee  
WHERE salary IN (1000, 2000, 3000);
```

```
SELECT lastname, manager_id  
FROM employee  
WHERE manager_id IS NULL;
```



# Operadores lógicos

Operador	Significado
AND	Retornará TRUE se <i>ambas</i> as condições componentes forem verdadeiras
OR	Retornará TRUE se <i>uma das</i> condições componentes for verdadeira
NOT	Retornará TRUE se a condição for falsa

# Operadores lógicos

```
SELECT lastname, job_id, salary  
FROM employee  
WHERE (job_id = 5  
OR job_id = 7)  
AND salary > 2000;
```

# Classificação

```
SELECT lastname, job_id, department_id, hire "Hire  
Date"
```

```
FROM employee
```

```
ORDER BY "Hire Date" ASC;
```

```
SELECT lastname, job_id, department_id, hire
```

```
FROM employee
```

```
ORDER BY 4 DESC;
```

# Leitura recomendada

- SILBERSCHATZ, Abraham. Sistemas de bancos de dados. 3. ed. São Paulo: Makron Books, 1999. Páginas 25 a 51, 69 a 74.

# Exercícios

[Ver Lista 3](#)