



# PostGreSql

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## Características OO

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- OID
- Herança simples
- Herança múltipla
- Atributos multivalorados
- Referência
  - <http://www.postgresql.org>



## Características OO

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### ■ Herança

- CREATE TABLE cidades (  
nome text,  
populacao real,  
altitude int  
);
- CREATE TABLE capitais (  
estado char(2)  
) INHERITS (cidades);



## Características OO

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### ■ Herança

- SELECT nome, altitude  
FROM cidades  
WHERE altitude > 500;
- SELECT nome, altitude  
FROM ONLY cidades  
WHERE altitude > 500;



## Características OO

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- Arrays

- CREATE TABLE sal\_emp (  
    name text,  
    pay\_by\_quarter integer[],  
    schedule text[][]  
);

(Obs.: pay\_by\_quarter integer ARRAY[12])



## Características OO

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- Arrays

- INSERT INTO sal\_emp VALUES  
(  
    'Iggy Pop',  
    '{10000, 10000, 10000, 10000}',  
    '{"meeting", "lunch"}, {"training", "presentation"}');

- INSERT INTO sal\_emp  
VALUES (  
    'Tracy Chapman',  
    '{20000, 25000, 25000, 25000}',  
    '{"breakfast", "consulting"}, {"meeting", "lunch"}');



## Características OO

### ■ Arrays

- `SELECT * FROM sal_emp;`

```
name | pay_by_quarter          | schedule
-----+-----
```

```
Iggy | {10000,10000,10000,10000} | {{meeting,lunch},{training,presentation}}
```

```
Tracy | {20000,25000,25000,25000} | {{breakfast,consulting},{meeting,lunch}}
```

- `SELECT pay_by_quarter[3] FROM sal_emp;`

```
pay_by_quarter
```

```
-----
```

```
10000
```

```
25000
```



## Características OO

### ■ Arrays

- `SELECT * FROM sal_emp;`

```
name | pay_by_quarter          | schedule
-----+-----
```

```
Iggy | {10000,10000,10000,10000} | {{meeting,lunch},{training,presentation}}
```

```
Tracy | {20000,25000,25000,25000} | {{breakfast,consulting},{meeting,lunch}}
```

- `SELECT schedule[1:2][1] FROM sal_emp WHERE  
name = 'Iggy Pop';`

```
schedule
```

```
-----
```

```
{{meeting},{training}}
```



## Características OO

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- Arrays

- `SELECT * FROM sal_emp  
WHERE 10000 = ANY (pay_by_quarter);`

- Atualização pode ser total ou parcial

- `UPDATE sal_emp  
SET pay_by_quarter = ARRAY[25000,25000,27000,27000]  
WHERE name = 'Tracy';`
- `UPDATE sal_emp SET pay_by_quarter[4] = 15000  
WHERE name = 'Iggy';`