

DML

◈ INSERT, UPDATE, DELETE

```
INSERT INTO relacional.clientes  
(idcliente, cliente, estado, sexo, status)  
VALUES  
(251, 'Fernando Amaral', 'RS', 'M', 'Silver');
```

DML

◈ INSERT, UPDATE, DELETE

```
UPDATE relational.clientes  
    SET estado='MS', status='Platinum'  
    WHERE idcliente = 251;
```

DML

◊ INSERT, UPDATE, DELETE

```
DELETE FROM relacional.clientes  
WHERE idcliente = 251;
```

DDL

- ◇ CREATE TABLE, INDEX, VIEW
- ◇ ALTER TABLE, INDEX, VIEW

```
CREATE TABLE relacional.clientes
(
    idcliente integer NOT NULL DEFAULT
nextval('relacional.idcliente '::regclass),
    cliente character varying(50) ,
    estado character varying(2) ,
    sexo character(1) ,
    status character varying(50) ,
    CONSTRAINT clientes_pkey PRIMARY KEY
(idcliente)
)
```

→ REG12: C~C~J

DTL

◇ BEGIN TRANSACTION, COMMIT, ROLLBACK

```
BEGIN;
INSERT INTO relacional.clientes(
    idcliente, cliente, estado, sexo, status)
    VALUES (251, 'Fernando Amaral', 'RS', 'M',
'Silver')
SELECT * FROM relacional.clientes WHERE
idcliente = 251
--COMMIT
ROLLBACK
SELECT * FROM relacional.clientes WHERE
idcliente = 251
```