
--Creating a Table – Writing Scripts

```
CREATE TABLE educations
(
    education_id SERIAL PRIMARY KEY,
    education_name VARCHAR(100) NOT NULL UNIQUE,
    description VARCHAR(500),
    start_date DATE,
    end_date DATE
)
```

```
CREATE TABLE accounts
(
    user_id SERIAL PRIMARY KEY,
    username VARCHAR(70) UNIQUE NOT NULL,
    user_password VARCHAR(50) NOT NULL,
    email VARCHAR(255) UNIQUE NOT NULL,
    created_on TIMESTAMP NOT NULL DEFAULT CURRENT_DATE,
    last_login TIMESTAMP
);
```

--Creating a Table – Select Into

```
SELECT f.film_id, f.title, c.name
    INTO TABLE film_with_category
FROM film f, film_category fc, category c
WHERE
    1=1
    AND f.rating = 'R'
    AND fc.film_id = f.film_id
    AND fc.category_id = c.category_id
ORDER BY title;
```

```
SELECT film_id, title, length
    INTO TEMP TABLE long_film
FROM film
WHERE length > 150
ORDER BY title;
```

--Creating a Table – Create Table As (Query)

```
CREATE TABLE horror_film AS
SELECT
    film_id, title,
    release_year,
    length, rating
FROM film
INNER JOIN film_category USING (film_id)
WHERE category_id = 11;
```

```
CREATE TABLE IF NOT EXISTS
    film_ratings (rating, film_count) AS
SELECT rating, COUNT (film_id)
FROM film
GROUP BY rating;
```

```
--Creating a Table – Create Table As (Table)
```

```
CREATE TABLE movies_copy AS
TABLE movies;
```

```
CREATE TABLE movies_copy2 AS
TABLE movies
WITH NO DATA;
```

```
CREATE TABLE product_segment_new AS
TABLE product_segment
WITH NO DATA;
```

```
--SERIAL pseudo-type
```

```
CREATE TABLE colors2(
    colors_id SERIAL,
    color VARCHAR(30)
)

INSERT INTO colors2(colors_id, color)
VALUES(Default, 'Brown');
```

```
pg_get_serial_sequence('table_name','column_name')

SELECT currval(pg_get_serial_sequence('colors2', 'colors_id'));

SELECT nextval(pg_get_serial_sequence('colors2', 'colors_id'));
```

```
--SEQUENCE
```

```
CREATE SEQUENCE sequence_temp
INCREMENT 10
START 100;

SELECT nextval('sequence_temp');
```

```
-----  
CREATE SEQUENCE sequence_descending  
INCREMENT -1  
MINVALUE 1  
MAXVALUE 100  
START 10  
CYCLE;  
  
SELECT nextval('sequence_descending');
```

```
-----  
--SEQUENCE - Associated with a table column-1  
-----
```

```
CREATE TABLE payment_details(  
    payment_id SERIAL,  
    item_id INT NOT NULL,  
    item_text VARCHAR(50) NOT NULL,  
    price DEC(10,2) NOT NULL,  
    PRIMARY KEY(payment_id, item_id)  
);
```

```
CREATE SEQUENCE sq_payment_item_id  
START 10  
INCREMENT 10  
MINVALUE 10  
OWNED BY payment_details.item_id;
```

```
INSERT INTO  
    payment_details(payment_id, item_id, item_text, price)  
VALUES  
    (100, nextval('sq_payment_item_id'), 'Sofa', 120),  
    (100, nextval('sq_payment_item_id'), 'Fridge', 550),  
    (100, nextval('sq_payment_item_id'), 'Speaker', 50),  
    (101, nextval('sq_payment_item_id'), 'Table', 250),  
    (101, nextval('sq_payment_item_id'), 'Lamp', 25);
```

```
-----  
--SEQUENCE - Associated with a table column-2  
-----
```

```
CREATE SEQUENCE sq_payment_item_id  
START 10  
INCREMENT 10  
MINVALUE 10
```

```
CREATE TABLE payment_details(  
    payment_id SERIAL,  
    item_id INT NOT NULL DEFAULT nextval('sq_payment_item_id'),  
    item_text VARCHAR(50) NOT NULL,  
    price DEC(10,2) NOT NULL,  
    PRIMARY KEY(payment_id, item_id)  
);
```

```
ALTER SEQUENCE sq_payment_item_id  
OWNED BY payment_details.item_id;
```

INSERT INTO

payment_details(payment_id, item_text, price)

VALUES

(100, 'Sofa', 120),
(100, 'Fridge', 550),
(100, 'Speaker', 50),
(101, 'Table', 250),
(101, 'Lamp', 25);