# **PostGres Sample data**

# 1. store\_db

**CREATE TABLE customers (** 

#### customers

```
cust_id SERIAL PRIMARY KEY,
cust_name VARCHAR(100) NOT NULL
);
INSERT INTO customers (cust_name)
VALUES
('Raju'), ('Sham'), ('Paul'), ('Alex');
Orders
CREATE TABLE orders (
ord_id SERIAL PRIMARY KEY,
ord_date DATE NOT NULL,
price NUMERIC NOT NULL,
cust_id INTEGER NOT NULL,
FOREIGN KEY (cust_id) REFERENCES
customers (cust id)
);
INSERT INTO orders (ord_date, cust_id, price)
VALUES
('2024-01-01', 1, 250.00),
('2024-01-15', 1, 300.00),
('2024-02-01', 2, 150.00),
('2024-03-01', 3, 450.00),
('2024-04-04', 2, 550.00);
```

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# Institute

### **Table Creation**

#### courses

```
    Create Table
        CREATE TABLE courses (
             c_id SERIAL PRIMARY KEY,
             name VARCHAR(100) NOT NULL,
            fee NUMERIC NOT NULL
        );
        Data
        INSERT INTO courses (name, fee)
        VALUES
        ('Mathematics', 500.00),
        ('Physics', 600.00),
        ('Chemistry', 700.00);
        // Chemistry', 700.00);
```

### students

```
Create Table

CREATE TABLE students (
    s_id SERIAL PRIMARY KEY,
    name VARCHAR(100) NOT NULL
);
Data

INSERT INTO Students (name) VALUES
 ('Raju'),
 ('Sham'),
 ('Alex');
```

### enrollment

Create Table

```
CREATE TABLE enrollment (
enrollment_id SERIAL PRIMARY KEY,
```

```
s_id INT NOT NULL,
c_id INT NOT NULL,
enrollment_date DATE NOT NULL,
FOREIGN KEY (s_id) REFERENCES students(s_id),
FOREIGN KEY (c_id) REFERENCES courses(c_id)
);

Data
INSERT INTO enrollment (s_id, c_id, enrollment_date)
VALUES
(1, 1, '2024-01-01'), -- Raju enrolled in Mathematics
(1, 2, '2024-01-15'), -- Sham enrolled in Mathematics
(2, 3, '2024-02-15'), -- Sham enrolled in Chemistry
```

(3, 3, '2024-03-25'); -- Alex enrolled in Chemistry

### **SHOW DATA**

```
e.enrollment_id,
s.name AS student_name,
c.name AS course_name,
c.fee,
e.enrollment_date

FROM
enrollment e

JOIN
students s ON e.s_id = s.s_id

JOIN
courses c ON e.c_id = c.c_id;
```

## **TASK StoreDB**

#### customers

```
CREATE TABLE customers (
 cust_id SERIAL PRIMARY KEY,
 cust_name VARCHAR(100) NOT NULL
);
INSERT INTO customers (cust_name)
VALUES
 ('Raju'), ('Sham'), ('Paul'), ('Alex');
```

#### orders

```
CREATE TABLE orders (
  ord_id SERIAL PRIMARY KEY,
  ord_date DATE NOT NULL,
  cust_id INTEGER NOT NULL,
  FOREIGN KEY (cust_id) REFERENCES customers(cust_id)
);
INSERT INTO orders (ord_date, cust_id)
VALUES
  ('2024-01-01', 1), -- Raju first order
  ('2024-02-01', 2), -- Sham first order
  ('2024-03-01', 3), -- Paul first order
  ('2024-04-04', 2); -- Sham second order
```

### order\_items

```
CREATE TABLE order_items (
 item_id SERIAL PRIMARY KEY,
 ord_id INTEGER NOT NULL,
 p_id INTEGER NOT NULL,
 quantity INTEGER NOT NULL,
 FOREIGN KEY (ord_id) REFERENCES orders(ord_id),
 FOREIGN KEY (p_id) REFERENCES products(p_id)
);
INSERT INTO order_items (ord_id, p_id, quantity)
```

#### **VALUES**

```
(1, 1, 1), -- Raju ordered 1 Laptop
(1, 4, 2), -- Raju ordered 2 Cables
(2, 1, 1), -- Sham ordered 1 Laptop
(3, 2, 1), -- Paul ordered 1 Mouse
(3, 4, 5), -- Paul ordered 5 Cables
(4, 3, 1); -- Sham ordered 1 Keyboard
```

### products

```
CREATE TABLE products (
    p_id SERIAL PRIMARY KEY,
    p_name VARCHAR(100) NOT NULL,
    price NUMERIC NOT NULL
);

INSERT INTO products (p_name, price)

VALUES
    ('Laptop', 55000.00),
    ('Mouse', 500),
    ('Keyboard', 800.00),
    ('Cable', 250.00)

;
```

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#### To see overall report

	cust_name character varying (100)	ord_date date	p_name character varying (100)	price numeric	quantity integer	total_price numeric
1	Raju	2024-01-01	Laptop	55000.00	1	55000.00
2	Raju	2024-01-01	Cable	250.00	2	500.00
3	Sham	2024-02-01	Laptop	55000.00	1	55000.00
4	Paul	2024-03-01	Mouse	500	1	500
5	Paul	2024-03-01	Cable	250.00	5	1250.00
6	Sham	2024-04-04	Keyboard	800.00	1	800.00

```
c.cust_name,
o.ord_date,
p.p_name,
p.price,
oi.quantity,
(oi.quantity*p.price) AS total_price
FROM order_items oi
JOIN
    products p ON oi.p_id=p.p_id
JOIN
    orders o ON o.ord_id=oi.ord_id
JOIN
    customers c ON o.cust_id=c.cust_id;
```