

PostGres Sample data

1. store_db

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,
    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);
```

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);
```

- **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'), -- Raju enrolled in Physics
(2, 1, '2024-02-01'), -- Sham enrolled in Mathematics
(2, 3, '2024-02-15'), -- Sham enrolled in Chemistry
(3, 3, '2024-03-25'); -- Alex enrolled in Chemistry
```

SHOW DATA

```
SELECT
    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

SELECT

```
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;
```