

```
1  -- Now we have connected our database to a localhost
   server.
2  -- Now we can begin with our task.
3
4  CREATE TABLE CUSTOMERS(
5      id SERIAL UNIQUE PRIMARY KEY,
6      username VARCHAR (50) NOT NULL,
7      password VARCHAR (50) NOT NULL,
8      email VARCHAR (355) NOT NULL,
9      created_on TIMESTAMP,
10     last_login TIMESTAMP
11 );
12 DROP TABLE CUSTOMERS;
13
14 INSERT INTO CUSTOMERS(username, password, email,
   created_on,last_login)
15 VALUES ('John','myPassWOrd','john@acme.com',NOW(),
   NULL);
16
17 INSERT INTO CUSTOMERS(username, password, email,
   created_on, last_login)
18 VALUES ('Anne', 'SomePassword', 'anne@acme.com', NOW
   (),NULL);
19
20 CREATE TABLE PRODUCTS(
21     id SERIAL UNIQUE PRIMARY KEY,
22     name VARCHAR (150) NOT NULL,
23     price REAL NOT NULL
24 );
25
26 INSERT INTO PRODUCTS(name, price)
27 VALUES ('Samsung Galaxy S20', 7799.95);
28
29 INSERT INTO PRODUCTS(name, price)
30 VALUES ('Samsung S20 - Leather Cover',799.95);
31
32 INSERT INTO PRODUCTS(name, price)
33 VALUES ('iPhone 11 Pro',8899);
34
35 INSERT INTO PRODUCTS(name, price)
36 VALUES ('iPhone 11 Pro - Leather Cover', 399.5);
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37
38 INSERT INTO PRODUCTS(name, price)
39 VALUES ('Huawai P30 Lite',1664.5);
40
41 INSERT INTO PRODUCTS(name, price)
42 VALUES ('Huawai P30 - Leather Cover',1664.5);
43
44 CREATE TABLE ORDERS(
45     id SERIAL UNIQUE PRIMARY KEY,
46     order_number CHARACTER (10) NOT NULL,
47     customer_id INTEGER NOT NULL REFERENCES CUSTOMERS
48     (id)
49 );
50 INSERT INTO ORDERS(order_number,customer_id)
51 VALUES ('DA-0001234',1);
52
53 INSERT INTO ORDERS(order_number,customer_id)
54 VALUES ('DA-0001235',1);
55
56 INSERT INTO ORDERS(order_number,customer_id)
57 VALUES ('DE-0001236',2);
58
59 INSERT INTO ORDERS(order_number,customer_id)
60 VALUES ('DE-0001237',2);
61
62 CREATE TABLE ORDER_LINES(
63     id SERIAL UNIQUE PRIMARY KEY,
64     order_id INTEGER NOT NULL REFERENCES ORDERS(id),
65     product_id INTEGER NOT NULL REFERENCES PRODUCTS(
66     id),
67     amount INTEGER NOT NULL
68 );
69
70 INSERT INTO ORDER_LINES(order_id, product_id, amount)
71 VALUES (1,1,2);
72
73 INSERT INTO ORDER_LINES(order_id, product_id, amount)
74 VALUES (1,2,2);
75
76 INSERT INTO ORDER_LINES(order_id, product_id, amount)
77 VALUES (1,5,1);
78
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76 INSERT INTO ORDER_LINES(order_id,product_id,amount)
77 VALUES(3,3,2);
78
79 INSERT INTO ORDER_LINES(order_id,product_id,amount)
80 VALUES(3,4,1);
81
82 INSERT INTO ORDER_LINES(order_id,product_id,amount)
83 VALUES(4,1,1);
84
85 -----
86 ALTER TABLE PRODUCTS
87 ADD MANUFACTURER VARCHAR(250);
88 -----
89
90 SELECT order_number,email,amount,name FROM ORDERS
91 INNER JOIN CUSTOMERS
92     ON ORDERS.customer_id = CUSTOMERS.id
93 INNER JOIN ORDER_LINES
94     ON ORDER_LINES.order_id = ORDERS.id
95 INNER JOIN PRODUCTS
96     ON PRODUCTS.id = ORDER_LINES.product_id;
97
98 -----
99 CREATE VIEW QUERY AS
100 SELECT order_number,email,amount,name FROM ORDERS
101 INNER JOIN CUSTOMERS
102     ON ORDERS.customer_id = CUSTOMERS.id
103 INNER JOIN ORDER_LINES
104     ON ORDER_LINES.order_id = ORDERS.id
105 INNER JOIN PRODUCTS
106     ON PRODUCTS.id = ORDER_LINES.product_id;
107
108 SELECT * FROM QUERY WHERE order_number = 'DA-0001234
109     ';
```