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Databases Lab 8: Normalization Two
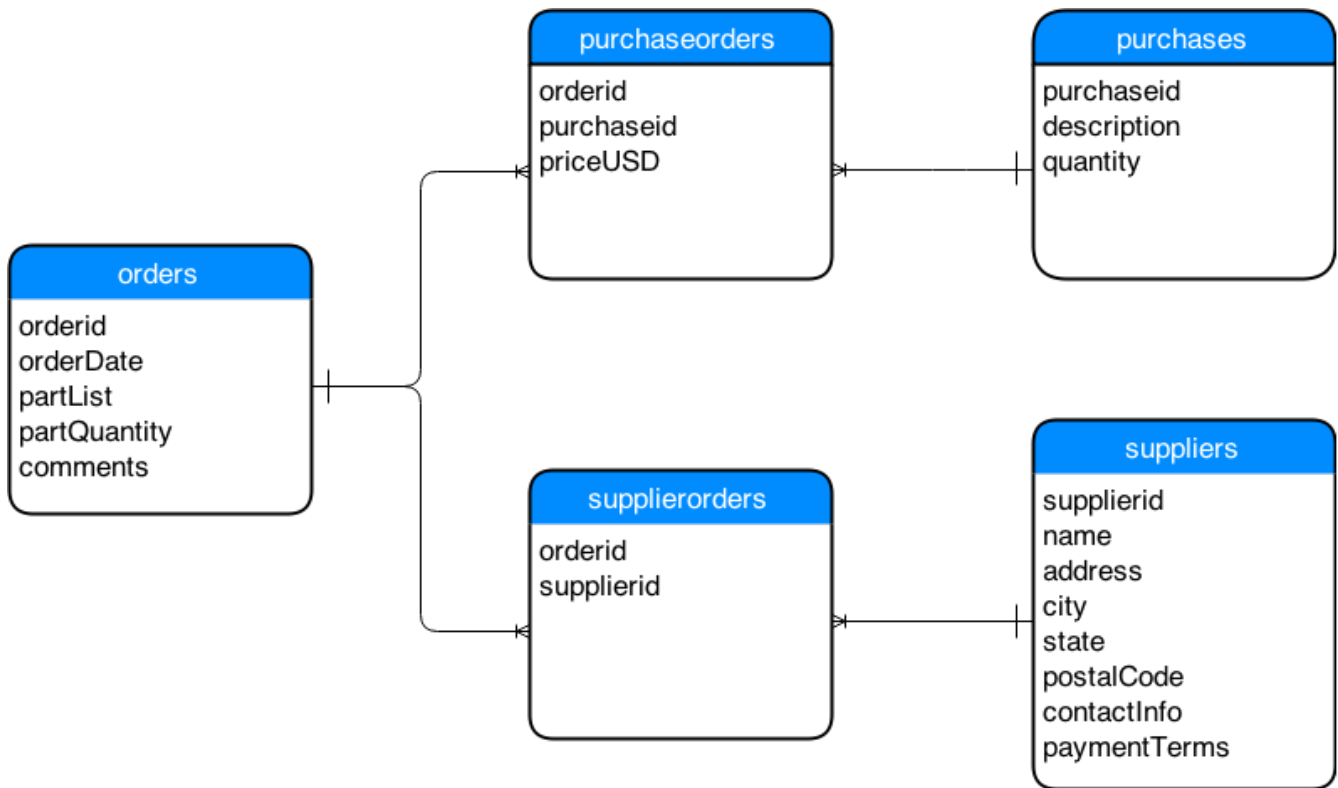
1.

2.
```
CREATE TABLE orders (
    orderid INT PRIMARY KEY NOT NULL,
    orderDate DATE,
    partList TEXT,
    partQuantity INT,
    comments TEXT
);

CREATE TABLE purchases (
    purchaseid INT PRIMARY KEY NOT NULL,
    description TEXT,
    quantity INT
);

CREATE TABLE suppliers (
    supplierid INT PRIMARY KEY NOT NULL,
    name TEXT,
    address TEXT,
    city TEXT,
    state TEXT,
    postalCode INT,
```

```
        contactInfo TEXT,
        paymentTerms TEXT
);

CREATE TABLE purchaseorders (
        orderid INT REFERENCES orders,
        purchaseid INT REFERENCES purchases,
        priceUSD INT,
        CONSTRAINT po_pk PRIMARY KEY (orderid, purchaseid)
);

CREATE TABLE supplierorders (
        orderid INT REFERENCES orders,
        supplierid INT REFERENCES suppliers,
        CONSTRAINT so_pk PRIMARY KEY (orderid, supplierid)
);

3.
INSERT INTO suppliers (supplierid, name, address, city, state, postalCode,
contactInfo, paymentTerms)
VALUES (0, 'ACME Supply', '123 Supply Rd', 'SupplyVille', 'Kansas', 66075,
'(123)123-1234', '1 percent 10 net 30');

INSERT INTO suppliers (supplierid, name, address, city, state, postalCode,
contactInfo, paymentTerms)
VALUES (1, 'FutureWare, Inc.', '456 Martian St', 'Marstown', 'California',
10101, '(456)456-4567', '2 percent 10 net 30');

INSERT INTO suppliers (supplierid, name, address, city, state, postalCode,
contactInfo, paymentTerms)
VALUES (2, 'S & D', '789 Crown Ln', 'New York', 'New York', 12000,
'(789)789-7890', '1 percent 10 net 30');

INSERT INTO purchases (purchaseid, description, quantity)
VALUES (0, 'T-shirts', 10000);

INSERT INTO purchases (purchaseid, description, quantity)
VALUES (1, 'Jeans', 2000);

INSERT INTO purchases (purchaseid, description, quantity)
VALUES (2, 'Polos', 5000);

INSERT INTO purchases (purchaseid, description, quantity)
VALUES (3, 'Underwear', 9001);

INSERT INTO purchases (purchaseid, description, quantity)
VALUES (4, 'Shorts', 3000);
```

```sql
INSERT INTO orders (orderid, orderDate, partList, partQuantity, comments)
VALUES (0, DATE '2011-02-11', 'T-shirts', 4832, 'Black only');

INSERT INTO orders (orderid, orderDate, partList, partQuantity, comments)
VALUES (1, DATE '2012-01-05', 'Underwear', 2351, 'Boxers and briefs');

INSERT INTO orders (orderid, orderDate, partList, partQuantity, comments)
VALUES (2, DATE '2012-06-12', 'Polos', 1091, 'Blue, green and white');

INSERT INTO purchaseorders (orderid, purchaseid, priceUSD)
VALUES (0, 0, 20);

INSERT INTO purchaseorders (orderid, purchaseid, priceUSD)
VALUES (1, 3, 10);

INSERT INTO purchaseorders (orderid, purchaseid, priceUSD)
VALUES (2, 2, 25);

INSERT INTO supplierorders (orderid, supplierid)
VALUES (0, 2);

INSERT INTO supplierorders (orderid, supplierid)
VALUES (1, 0);

INSERT INTO supplierorders (orderid, supplierid)
VALUES (2, 1);
```

4.
orders: orderid -> orderDate, partList, partQuantity
purchases: purchaseid -> description, quantity
suppliers: supplierid -> address, city, state, postalCode, paymentTerms
purchaseorders: orderid, purchaseid -> priceUSD
supplierorders: none

5.
```sql
SELECT (partQuantity + quantity) AS sku
FROM orders o, purchases p
WHERE o.partList = p.description
```