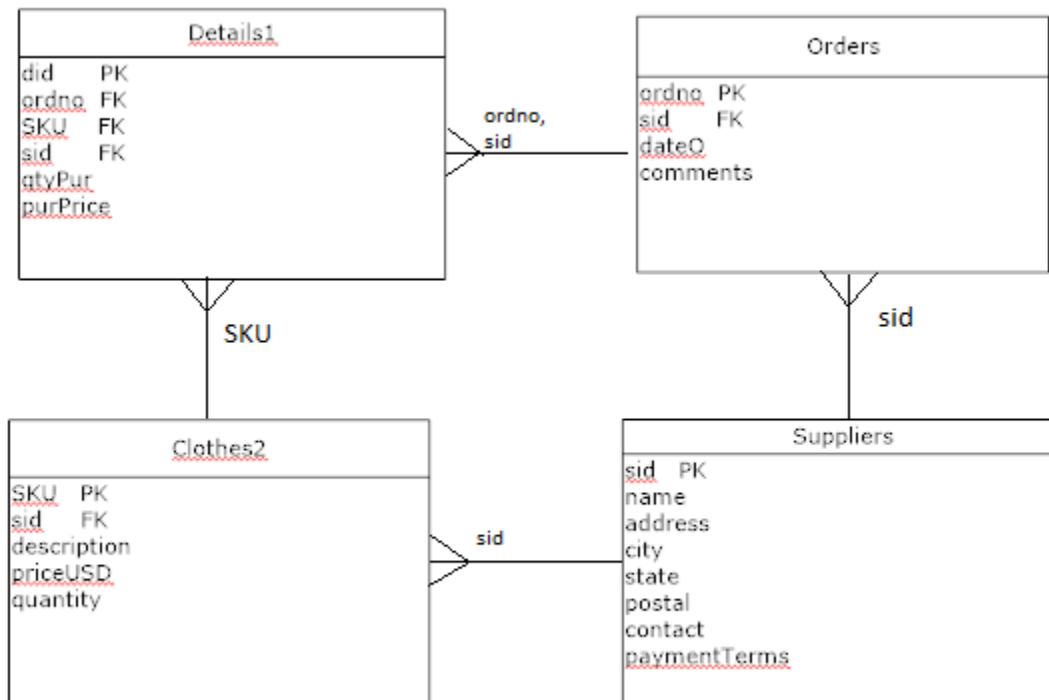


Ryan Fredericks

Data Management

Normalization 2

ER DIAGRAM



CREATE TABLE STATEMENTS

DROP TABLE IF EXISTS suppliers;

DROP TABLE IF EXISTS clothes2;

DROP TABLE IF EXISTS orders;

DROP TABLE IF EXISTS details1;

-- Suppliers --

```
CREATE TABLE suppliers (
```

```
    sid    char(5) not null,
```

```
    name   text,
```

```
    address text,
```

```
    city   text,
```

```
    state  text,
```

```
    postal integer,
```

```
    contact text,
```

```
    paymentTerms text,
```

```
    primary key(sid)
```

```
);
```

```
-- Clothes --
```

```
CREATE TABLE clothes2 (
```

```
    SKU    char(5) not null,
```

```
    sid    char(5) not null references suppliers(sid),
```

```
    description text,
```

```
    priceUSD decimal (10,2),
```

```
    quantity integer,
```

```
    primary key(SKU)
```

```
);
```

```
-- Orders --
```

```
CREATE TABLE orders (  
    ordno    integer not null,  
    sid      char(5) not null references suppliers(sid),  
    dateO    date,  
    comments text,  
    primary key(ordno)  
);
```

-- Details --

```
CREATE TABLE details1 (  
    did      char(5) not null,  
    ordno    integer not null references orders(ordno),  
    SKU      char(5) not null references clothes2(SKU),  
    sid      char(5) not null references suppliers(sid),  
    qtyPur   integer,  
    purPrice integer,  
    primary key(did)  
);
```

INSERT STATEMENTS

--SUPPLIERS INSERT

```
INSERT INTO suppliers( sid, name, address, city, state, postal, contact, paymentTerms )  
  
VALUES('S0001', 'Whats Sup', '101 You Drive', 'New York', 'NY', 13913, 'Steve from Accounting',  
'Check');
```

```
INSERT INTO suppliers( sid, name, address, city, state, postal, contact, paymentTerms )  
VALUES('S0002', 'The Clothes Depot', '221B Baker Street', 'Los Angeles', 'CA', 23912, 'Sherlock', 'Cash');
```

```
INSERT INTO suppliers( sid, name, address, city, state, postal, contact, paymentTerms )  
VALUES('S0003', 'NHL Store', '42nd Street', 'New York', 'NY', 13913, 'Wayne', 'Cash');
```

```
select *  
from suppliers;
```

```
--CLOTHES2 INSERT
```

```
INSERT INTO clothes2( SKU, sid, description, priceUSD, quantity )  
VALUES('C0001', 'S0001', 'T-Shirt', 15.99, 100 );
```

```
INSERT INTO clothes2( SKU, sid, description, priceUSD, quantity )  
VALUES('C0002', 'S0002', 'Jeans', 21.99, 80 );
```

```
INSERT INTO clothes2( SKU, sid, description, priceUSD, quantity )  
VALUES('C0003', 'S0001', 'Jeans', 24.99, 50 );
```

```
INSERT INTO clothes2( SKU, sid, description, priceUSD, quantity )  
VALUES('C0004', 'S0003', 'Jersey', 99.99, 30 );
```

```
select *  
  
from clothes2;
```

```
--ORDER INSERTS
```

```
INSERT INTO orders( ordno, sid, dateO, comments )  
  
VALUES('00001', 'S0001', '2014-04-03', 'Never late');
```

```
INSERT INTO orders( ordno, sid, dateO, comments )  
  
VALUES('00002', 'S0002', '2014-05-01', 'Need asap');
```

```
INSERT INTO orders( ordno, sid, dateO, comments )  
  
VALUES('00003', 'S0001', '2014-05-25', 'Re-order');
```

```
INSERT INTO orders( ordno, sid, dateO, comments )  
  
VALUES('00004', 'S0003', '2014-06-30', 'Summer Birthdays');
```

```
select *  
  
from orders;
```

```
--DETAILS1 INSERTS
```

```
INSERT INTO details1( did, ordno, SKU, sid, qtyPur, purPrice )  
  
VALUES('D0001', 00001, 'C0001', 'S0001', 100, 30.00);
```

```
INSERT INTO details1( did, ordno, SKU, sid, qtyPur, purPrice )  
  
VALUES('D0002', 00003, 'C0003', 'S0003', 400, 120.00);
```

```
INSERT INTO details1( did, ordno, SKU, sid, qtyPur, purPrice )
```

```
VALUES('D0003', 00001, 'C0002', 'S0001', 20, 50.00);
```

```
select *
```

```
from details1;
```

FUNCTIONAL DEPENDENCIES

- a. Suppliers
 - i. sid -> name, address, city, state, postal, contact, paymentTerms
- b. Clothes2
 - i. SKU -> sid, description, priceUSD, quantity
- c. Orders
 - i. ordno -> sid, dateO, comments
- d. Details1
 - i. did, ordno, SKU, sid -> qtyPur, purPrice

QUERY

```
select (clothes2.quantity + details1.qtyPur)
```

```
from clothes2, details1
```

```
where clothes2.SKU = details1.SKU;
```

