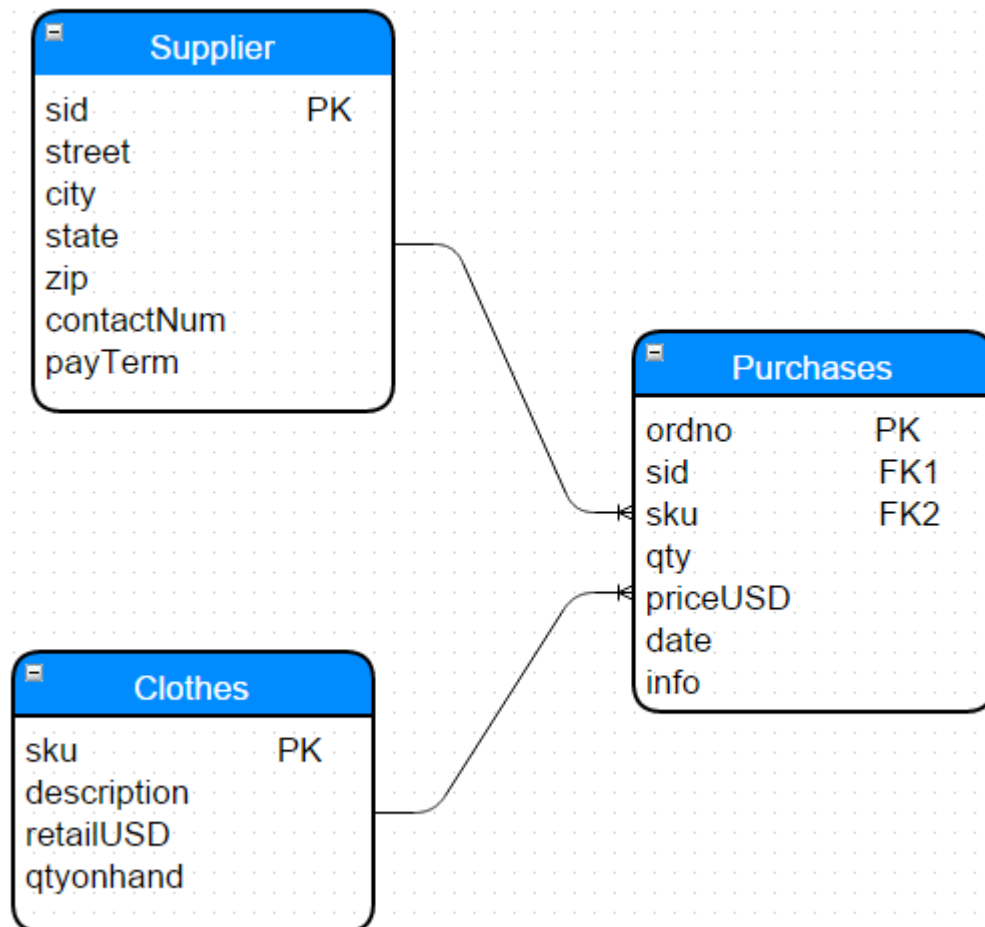Chris Koriniskie

April 13, 2015

Database Systems

Lab 08 Normalization

1.

2.

CREATE TABLE clothes

(

      sku   CHARACTER(5) NOT NULL,

      description   TEXT,

      retailUSD   NUMERIC(5,2),

      qtyOnHand   INTEGER,

      PRIMARY KEY (sku)

```sql
);

-- Table for suppliers info
-- NOTE: payTerm in days!!

CREATE TABLE suppliers
(
        sid             CHARACTER(4) NOT NULL,
        street          TEXT,
        city            TEXT,
        state           CHARACTER(2),
        zip             CHARACTER(5),
        contactNum      CHARACTER(10),
        payTerm         INTEGER,
        PRIMARY KEY (sid)
);

CREATE TABLE purchases
 (
        ordno           INTEGER NOT NULL,
        sid             CHARACTER(4) NOT NULL references suppliers(sid),
        sku             CHARACTER(5) NOT NULL references clothes(sku),
        qty             INTEGER,
        priceUSD        NUMERIC(6,2),
        ordDate         DATE,
        info            TEXT,
        PRIMARY KEY (ordno)
);
```

3.

```sql
-- SQL statements


-- Clothes Table
INSERT INTO clothes ( sku, description, retailUSD, qtyOnHand )
  VALUES('sk001', 'shirt', 32.05, 200);


INSERT INTO clothes ( sku, description, retailUSD, qtyOnHand )
  VALUES('sk002', 'jeans', 25.00, 125);


INSERT INTO clothes (sku, description, retailUSD, qtyOnHand)
  VALUES('sk003', 'beanies', 10.00, 75);


select * from clothes


-- Suppliers Table
INSERT INTO suppliers(sid, street, city, state, zip, contactNum, payTerm)
  VALUES('s001', 'Wilbur St', 'Honolulu', 'HI', '32050', '1393557867', 30);


INSERT INTO suppliers(sid, street, city, state, zip, contactNum, payTerm)
  VALUES('s002', 'Database Dr.', 'Dataville', 'NM', '78390', '1767895678', 90);


INSERT INTO suppliers(sid, street, city, state, zip, contactNum, payTerm)
  VALUES('s003', 'Main St.', 'Hopewell Jct.', 'NY', '12582', '8452264000', 30);


-- Purchases Table
INSERT INTO purchases( sid, sku, info, qty, priceUSD, ordno, ordDate )
  VALUES('s001', 'sk001', 'Shirts', 10, 320.50, 1001, '2015-01-15');


INSERT INTO purchases( sid, sku, info, qty, priceUSD, ordno, ordDate )
```

VALUES('s002', 'sk002', 'Jeans', 8, 200.00, 1002, '2015-02-27');

INSERT INTO purchases(sid, sku, info, qty, priceUSD, ordno, ordDate)
  VALUES('s001', 'sk001', 'Beanies', 50, 500.00, 1003, '2015-03-17');

FUNCTIONAL DEPENDENCIES

Clothes: sku→description, retailUSD, qtyOnHand

Suppliers: sid→street, city, state, zip, contactNum, payTerm

Purchases: ordno→qty, priceUSD, ordDate, info