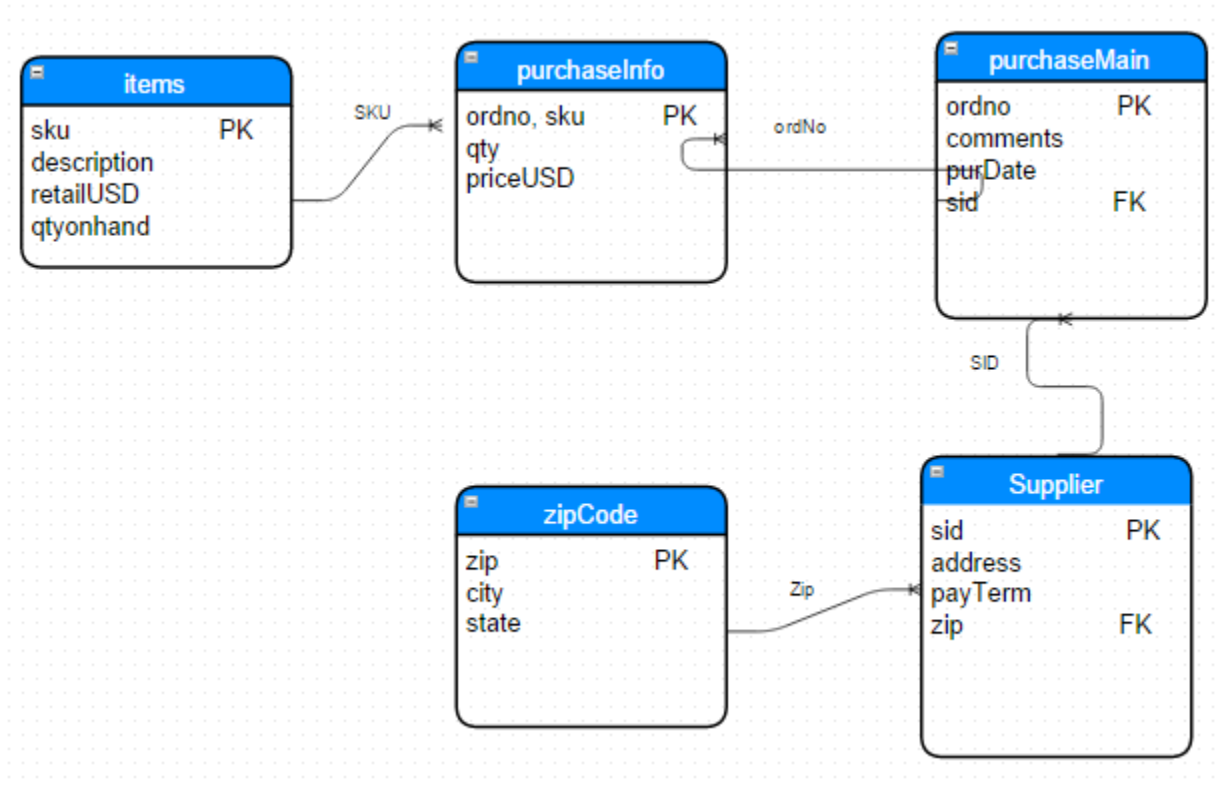Chris Koriniskie

April 13, 2015

Database Systems

Lab 08 Normalization

1.

2.

CREATE TABLE items

(

    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 supplier
(
        sid             CHARACTER(4) NOT NULL,
        address         TEXT,
        zip             CHARACTER(5),
        contactNum      CHARACTER(10),
        payTerm         INTEGER,
        PRIMARY KEY (sid)
);


create table zipode
(
        zip             character(5),
        city            text,
        state           text,
        primary key (zip)
);


CREATE TABLE purchaseMain
 (
        ordno           INTEGER NOT NULL,
        sid             character (4) not null,
        purDate         DATE,
        itemInfo        TEXT,
        PRIMARY KEY (ordno)
);
```

```sql
CREATE TABLE purchaseInfo
 (
        ordno          INTEGER NOT NULL,
        sku            character (5) not null,
        priceUSD       numeric(6,2),
        PRIMARY KEY (ordno,sku)
);
```

3.
-- SQL statements

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

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

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

```sql
select * from clothes
```

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

```sql
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