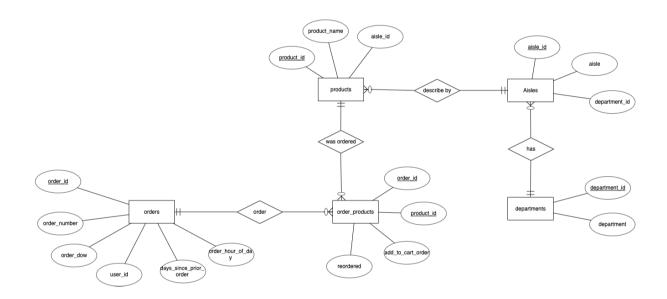
ER Diagram

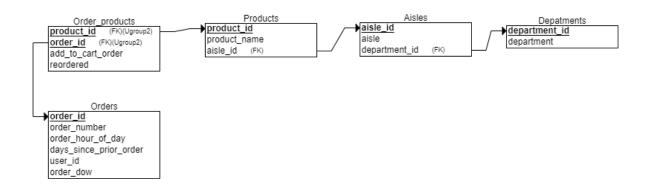
Team 2

Chong Shen, Peifeng Li, Jiajun Chen, Xiangnan Zhang, Kebin Li, Fan Shen

Conceptual Model



Logical Model



Physical model (SQL script)

```
CREATE TABLE Departments
 department_id INT NOT NULL,
 department VARCHAR (50) NOT NULL,
 PRIMARY KEY (department_id)
CREATE TABLE Aisles
 aisle_id INT NOT NULL,
 aisle VARCHAR(80) NOT NULL,
 department_id INT NOT NULL,
  PRIMARY KEY (aisle id),
 FOREIGN KEY (department id) REFERENCES Departments (department id)
CREATE TABLE Products
 product_id INT NOT NULL,
 product name VARCHAR(80) NOT NULL,
 aisle id INT NOT NULL,
 PRIMARY KEY (product_id),
 FOREIGN KEY (aisle id) REFERENCES Aisles (aisle id)
CREATE TABLE Orders
 order_id INT NOT NULL,
  order_number INT NOT NULL,
 order_hour_of_day INT NOT NULL,
days_since_prior_order INT NOT NULL,
 user id INT NOT NULL,
 order_dow INT NOT NULL,
  PRIMARY KEY (order id)
CREATE TABLE Order products
 add to cart order INT NOT NULL,
 reordered INT NOT NULL,
 product id INT NOT NULL,
 order id INT NOT NULL,
  PRIMARY KEY (product_id, order_id),
  FOREIGN KEY (product_id) REFERENCES Products (product_id),
  FOREIGN KEY (order_id) REFERENCES Orders(order_id),
 UNIQUE (product id, order id)
);
```