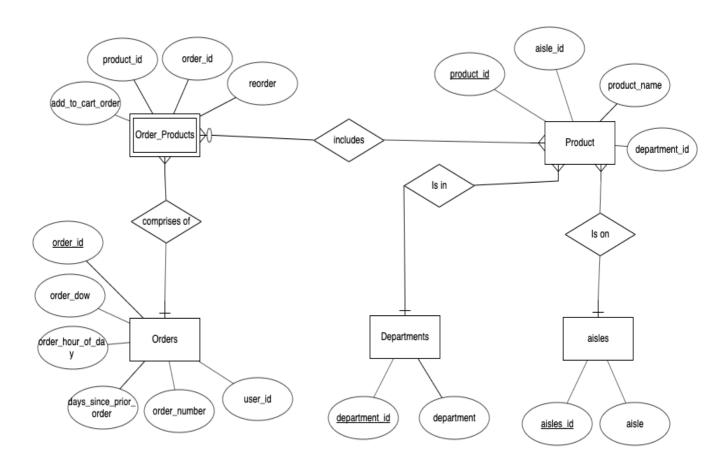
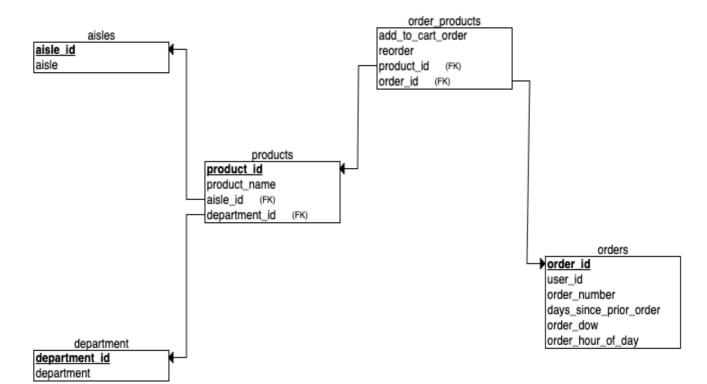
1- Build an ER model for the 5 Instacart tables (aisles, departments, products, orders, order_products) using ERDPlus (erdplus.com).



2- Convert the ER model to its corresponding Relational model using ERDPlus.



3- Convert the Relational model to its equivalent SQL scripts using ERDPlus.

```
CREATE TABLE department
department_id INT NOT NULL,
department VARCHAR NOT NULL,
PRIMARY KEY (department_id)
);
CREATE TABLE aisles
aisle_id INT NOT NULL,
aisle VARCHAR NOT NULL,
PRIMARY KEY (aisle_id)
);
CREATE TABLE orders
 order_id INT NOT NULL,
user_id INT NOT NULL,
 order_number INT NOT NULL,
days_since_prior_order INT NOT NULL,
 order dow INT NOT NULL,
order_hour_of_day INT NOT NULL,
PRIMARY KEY (order_id)
);
CREATE TABLE products
 product_id INT NOT NULL,
 product_name VARCHAR NOT NULL,
 aisle_id INT NOT NULL,
 department_id INT NOT NULL,
 PRIMARY KEY (product_id),
 FOREIGN KEY (aisle_id) REFERENCES aisles(aisle_id),
FOREIGN KEY (department_id) REFERENCES department(department_id)
);
CREATE TABLE order_products
 add_to_cart_order INT NOT NULL,
reorder INT NOT NULL,
 product_id INT NOT NULL,
order_id INT NOT NULL,
 FOREIGN KEY (product_id) REFERENCES products(product_id),
FOREIGN KEY (order_id) REFERENCES orders(order_id)
);
```