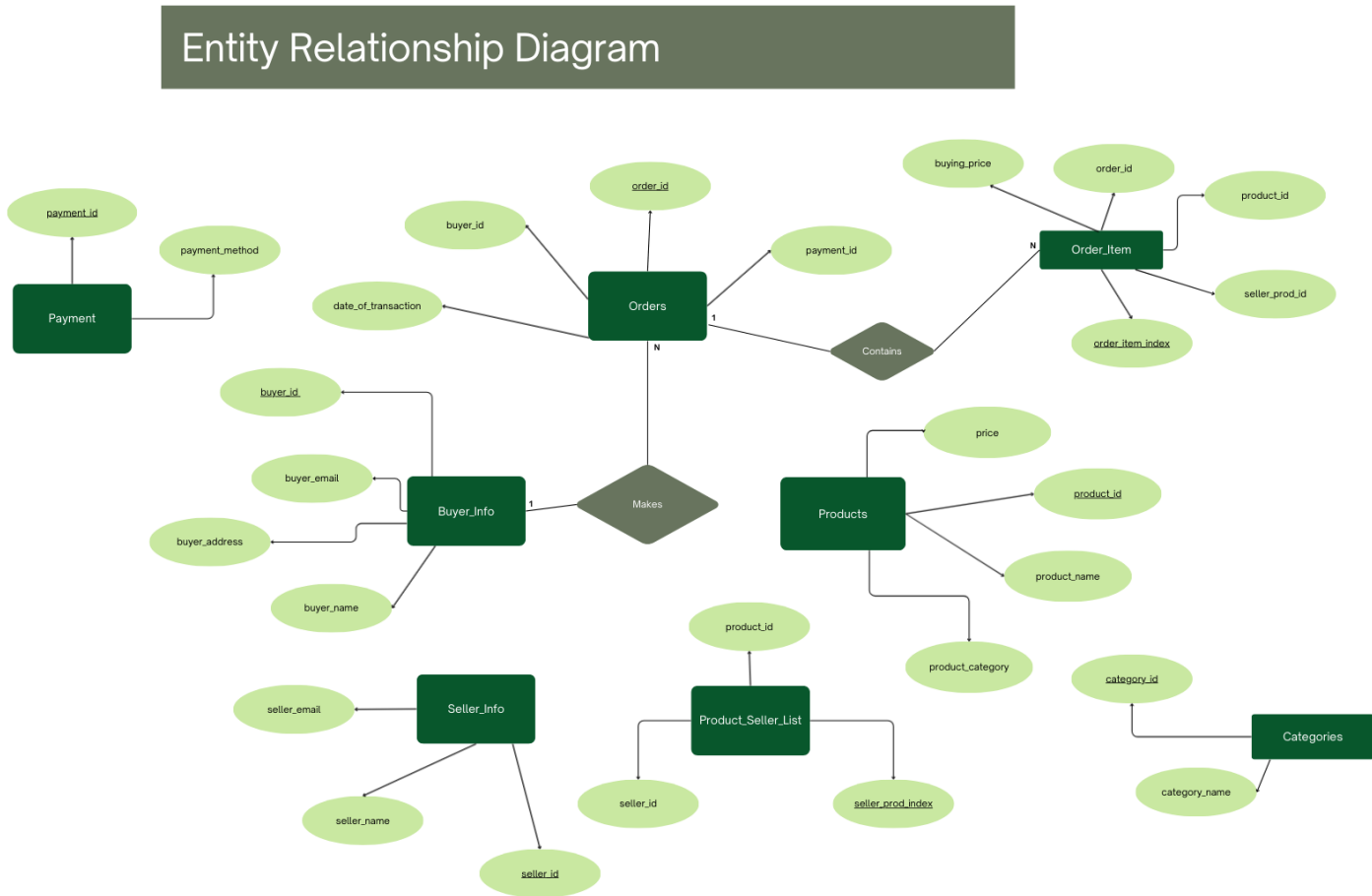**E-Commerce database**

ER Diagram:

SQL Queries:

1. Total revenue of a seller

   ```
   select si.seller_id, si.seller_name, sum(oi.buying_price) from seller_info si join
   seller_prod_list sp on si.seller_id= sp.seller_id
   join order_item oi on sp.seller_prod_index= oi.seller_prod_id
   where si.seller_id= XXXX
   group by si.seller_id, si.seller_name;
   ```

2. Top 10 products sold

   ```
   select p.product_id, p.product_name from products p
   join order_item oi on p.product_id = oi.product_id
   group by p.product_id, p.product_name
   ```

```
order by count(p.product_id) desc
limit 10;
```

3. Expense per category for a buyer

```
select c.category_id, c.category, sum(oi.buying_price)
from buyer_info b
join orders o on b.buyer_id= o.buyer_id
join order_item oi on oi.order_id= o.order_id
join products p on p.product_id = oi.product_id
join categories c on c.category_id = p.product_category
where b.buyer_id=XXXX
group by c.category, c.category_id;
```

4. Top 10 products based on sale value

```
select p.product_name, p.product_id, sum(oi.buying_price)
from products p join order_item oi on p.product_id = oi.product_id
group by p.product_name, p.product_id
order by sum(oi.buying_price) desc
limit 10;
```