

Aggregating Exercises

Write code to answer the following questions:

- How many orders do we have?
- How many units of product 1 have we sold?
- How many orders has customer 1 placed?
- What is the min, max and average price of the products in collection 3?

Solutions are on the next page.

Solutions

```
# How many orders do we have?
result = Order.objects.aggregate(count=Count('id'))

# How many units of product 1 have we sold?
result = OrderItem.objects \
    .filter(product__id=1) \
    .aggregate(units_sold=Sum('quantity'))

# How many orders has customer 1 placed?
result = Order.objects \
    .filter(customer__id=1) \
    .aggregate(count=Count('id'))

# What is the min, max and avg price of products in collection 1?
result = Product.objects \
    .filter(collection__id=3) \
    .aggregate(
        min_price=Min('unit_price'),
        avg_price=Avg('unit_price'),
        max_price=Max('unit_price'),
    )
```