SQL Project Queries

The company wants to Calculate number of flights each period of the day.

Create period wise data, how many flights departure at morning, afternoon, evening, and night.

Total Scheduled flying time for booking references

```
select
b.book_ref,
sum(f.scheduled_arrival - f.scheduled_departure) as total_flying_time
from bookings b
join tickets t
on b.book_ref = t.book_ref
join ticket_flights tf
on t.ticket_no=tf.ticket_no
join flights f
on tf.flight_id=f.flight_id
group by b.book_ref
having count(f.flight_id) >1
order by b.book_ref
```

Compare Total_order_quantity and Total_return_quantity product wise

```
select
s.product_id,
sum(s.orderquantity) as Total_Order_Quantity,
coalesce(sum(r.returnquantity),0) as Total_Return_Quantity
from SALES s
left join RETURNS r
on s.product_id = r.product_id
group by s.product_id
order by Total_Order_Quantity desc, s.product_id asc
```

Total quantities sold by category name

```
select
categoryname,
sum(case when extract(year from s.orderdate)=2020 then s.orderquantity else null end) as total_quantity_2020,
sum(case when extract(year from s.orderdate)=2021 then s.orderquantity else null end) as total_quantity_2021,
sum(case when extract(year from s.orderdate)=2022 then s.orderquantity else null end) as total_quantity_2022
from categories c
left join subcategories sc
on c.category_id=sc.category_id
left join products p
on c.category_id=sc.category_id
left join sales s
on p.product_id=s.product_id
and extract(year from s.orderdate) between 2020 and 2022
group by c.categoryname
order by 1
```