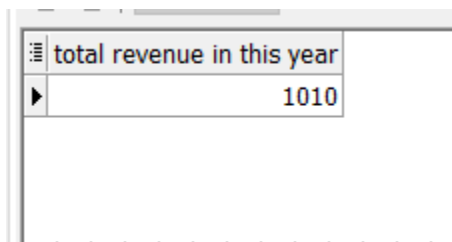


1) What is the total revenue for the current year

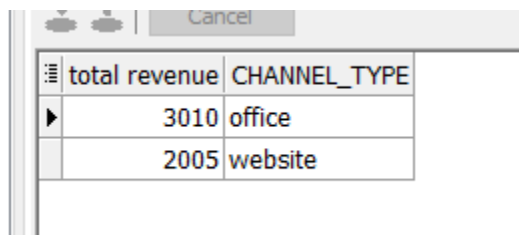
```
select sum (revenue ) as "total revenue in this year"
from reservation_fact , date_dimension
where
date_dimension.DATE_KEY = reservation_fact.DATE_KEY
and
date_dimension.date_year= to_number (TO_CHAR(sysdate,'YYYY'));
```



| total revenue in this year |
|----------------------------|
| 1010 |

2) What is the revenue gained from each Booking Channels?

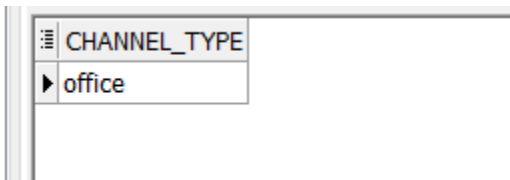
```
select sum(reservation_fact.revenue) as "total revenue" ,
channel_dimension.channel_type
from reservation_fact , channel_dimension
where
channel_dimension.channel_key = reservation_fact.channel_key
group by channel_type
```



| total revenue | CHANNEL_TYPE |
|---------------|--------------|
| 3010 | office |
| 2005 | website |

3) What is the best booking channel used for reservations?

```
select channel_dimension.channel_type
from reservation_fact , channel_dimension
where
channel_dimension.channel_key = reservation_fact.channel_key
group by channel_type
having count(channel_type) = (
select max (count(channel_type))
from reservation_fact , channel_dimension
where
channel_dimension.channel_key = reservation_fact.channel_key
group by channel_type
)
```



| CHANNEL_TYPE |
|--------------|
| office |

4) What flights do the company's frequent flyers take?

SELECT

f.departure_airport,

f.arrival_airport,

flying.is_transit,

COUNT(*) AS "count"

FROM Fact_flying flying

INNER JOIN Dim_Flight f ON flying.flight_key = f.flight_key

INNER JOIN Dim_passengers p ON flying.passenger_key = p.passenger_key

WHERE

p.frequent_flyer_id IS NOT NULL

GROUP BY

f.departure_airport, f.arrival_airport, flying.is_transit

ORDER BY

count DESC;

5) What fare basis do they pay?

SELECT

fb.code,

COUNT(*) AS "count"

FROM Fact_flying flying

INNER JOIN Dim_Fare_Basis fb ON flying.fare_basis_key = fb.fare_basis_key

INNER JOIN Dim_passengers p ON flying.passenger_key = p.passenger_key

WHERE

p.frequent_flyer_id IS NOT NULL

GROUP BY

fb.code

ORDER BY

count DESC;

6) how long their overnight stays are?

SELECT

MIN(ov.duration) AS “min”,

AVG(ov.duration) AS “avg”,

MAX(ov.duration) AS “max”

FROM Fact_Overnight_Layover AS ov

INNER JOIN Dim_Passenger p ON ov.passenger_key = p.passenger_key

WHERE

p.frequent_flyer_id IS NOT NULL;

7) NUMBER AND TYPE OF INTERACTION PER FLIGHT

**SELECT FACT.FLIGHT_KEY, INTERACTION_TYPE, count(*) as
NUM_OF_INTERACTIONS**

FROM customer_care FACT,

Interaction C,

date_dimension D,

flight_dimension F,

passenger_dimension P

WHERE FACT.DATE_KEY = d.DATE_KEY

AND FACT.INTERACTION_ID = C.INTERACTION_ID

AND FACT.PASSENGER_key= P.PASSENGER_key

AND FACT.FLIGHT_KEY = F.FLIGHT_KEY

group by FACT.FLIGHT_KEY, INTERACTION_TYPE;

| | FLIGHT_KEY | INTERACTION_TYPE | NUM_OF_INTERACTIONS |
|---|------------|------------------|---------------------|
| ▶ | 7890 | WITHIN | 1 |
| | 3245 | BEFORE | 3 |
| | 5678 | AFTER | 2 |

8) AVERAGE PROBLEM SEVERITY PER FLIGHT

```
SELECT FACT.FLIGHT_KEY, AVG(PROBLEM_SEVERITY)
```

```
FROM customer_care FACT,
```

```
    Interaction C,
```

```
    date_dimension D,
```

```
    flight_dimension F,
```

```
    passenger_dimension P
```

```
WHERE  FACT.DATE_KEY = D.DATE_KEY
```

```
      AND FACT.INTERACTION_ID = c.INTERACTION_ID
```

```
      AND FACT.PASSENGER_key = P.PASSENGER_key
```

```
      AND FACT.FLIGHT_KEY = F.FLIGHT_KEY
```

```
group by FACT.FLIGHT_KEY;
```

| | FLIGHT_KEY | AVG(PROBLEM_SEVERITY) |
|---|------------|-----------------------|
| ▶ | 9620 | 2 |
| | 8185 | 4 |
