

SQL statement to combine '2018', '2019', '2020' tables

```
with hotels as(  
  select * from dbo.['2018$']  
  union  
  select * from dbo.['2019$']  
  union  
  select * from dbo.['2020$'])
```

SQL statement to find revenue by year

```
select  
  arrival_date_year,  
  round(sum((stays_in_week_nights + stays_in_weekend_nights)*adr), 2) as revenue  
from hotels  
group by arrival_date_year, hotel  
order by 2
```

SQL statement to find revenue by year and by hotel type

```
select  
  arrival_date_year, hotel,  
  round(sum((stays_in_week_nights + stays_in_weekend_nights)*adr), 2) as revenue  
from hotels  
group by arrival_date_year, hotel  
order by 3
```

SQL statement to join all tables for Power BI

```
select *  
from hotels h  
left join dbo.market_segment$ s  
on h.market_segment = s.market_segment  
left join dbo.meal_cost$ c  
on h.meal = c.meal
```

DAX calculation for 'Revenue' Custom column

Revenue = ([stays_in_week_nights]+[stays_in_weekend_nights])*([adr]*[Discount])

DAX calculation for 'total nights' Measure

Total nights = SUM(Query1[stays_in_week_nights])+SUM(Query1[stays_in_weekend_nights])