1. **Questions SQL Queries/Sample Results**

Q1: How many single vs multiple-functions rooms were used last year in each of our resorts?

SELECT N\_TimeYear\_TI AS YEAR, T\_RoomType\_TR, C\_ResortID\_TR, SUM(N\_TotalNumOfStays\_TR) AS TotalStays, SUM(N\_TotalPrice\_TR) AS TotalProfit

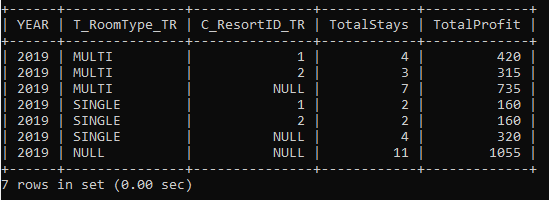
FROM RoomTypeReservationsFact TR

JOIN TimeDim TI ON TR.C\_TimeID\_TR = TI.C\_TimeID\_TI

WHERE T\_RoomType\_TR IN ('SINGLE', 'MULTI') AND

N\_TimeYear\_TI = YEAR(DATE\_SUB(CURDATE(), INTERVAL 1 YEAR))

GROUP BY T\_RoomType\_TR, C\_ResortID\_TR WITH ROLLUP;



Q2: How many reservations have customers made with each of our resorts for a specific period i.e. last 2 years?

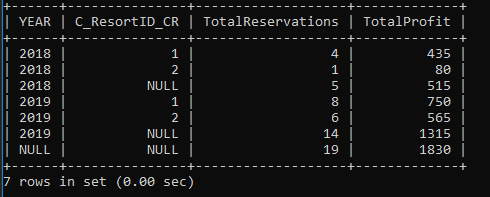
SELECT N\_TimeYear\_TI AS YEAR, C\_ResortID\_CR, COUNT(\*) AS TotalReservations, SUM(N\_TotalPrice\_CR) AS TotalProfit

FROM CustomerReservationsFact CR

JOIN TimeDim TI ON CR.C\_TimeID\_CR = TI.C\_TimeID\_TI

WHERE N\_TimeYear\_TI >= YEAR(DATE\_SUB(CURDATE(), INTERVAL 2 YEAR))

GROUP BY N\_TimeYear\_TI, C\_ResortID\_CR WITH ROLLUP;



Q3: How many reservations were made because of events we hosted during a specific period vs another period i.e. 2018 vs 2019 at any of our resorts?

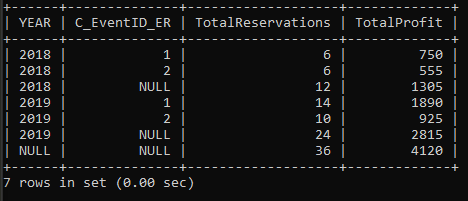
SELECT N\_TimeYear\_TI AS YEAR, C\_EventID\_ER, COUNT(\*) AS TotalReservations, SUM(N\_TotalPrice\_ER) AS TotalProfit

FROM EventReservationsFact ER

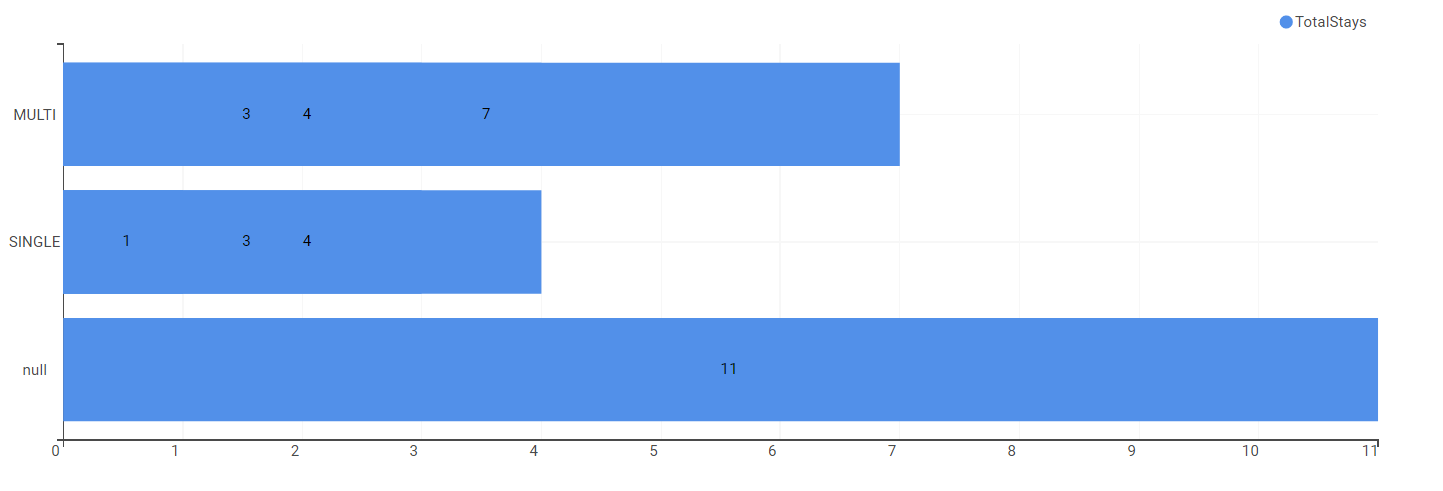
JOIN TimeDim TI ON ER.C\_TimeID\_ER = TI.C\_TimeID\_TI

WHERE N\_TimeYear\_TI in ('2018', '2019')

GROUP BY N\_TimeYear\_TI, C\_EventID\_ER WITH ROLLUP;

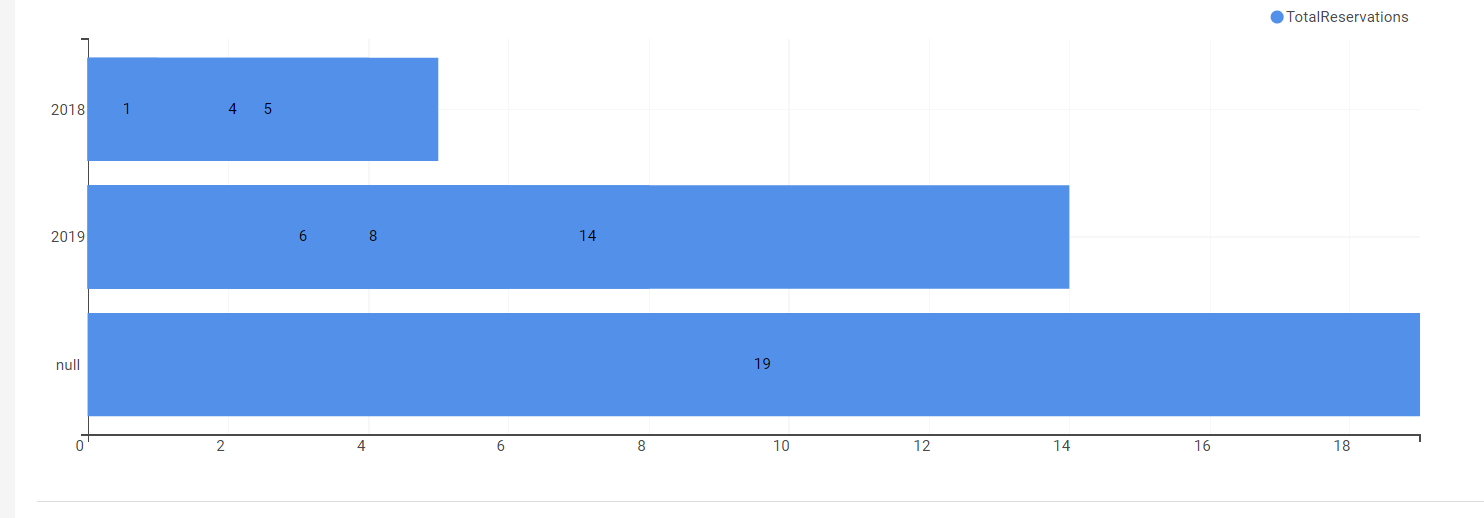


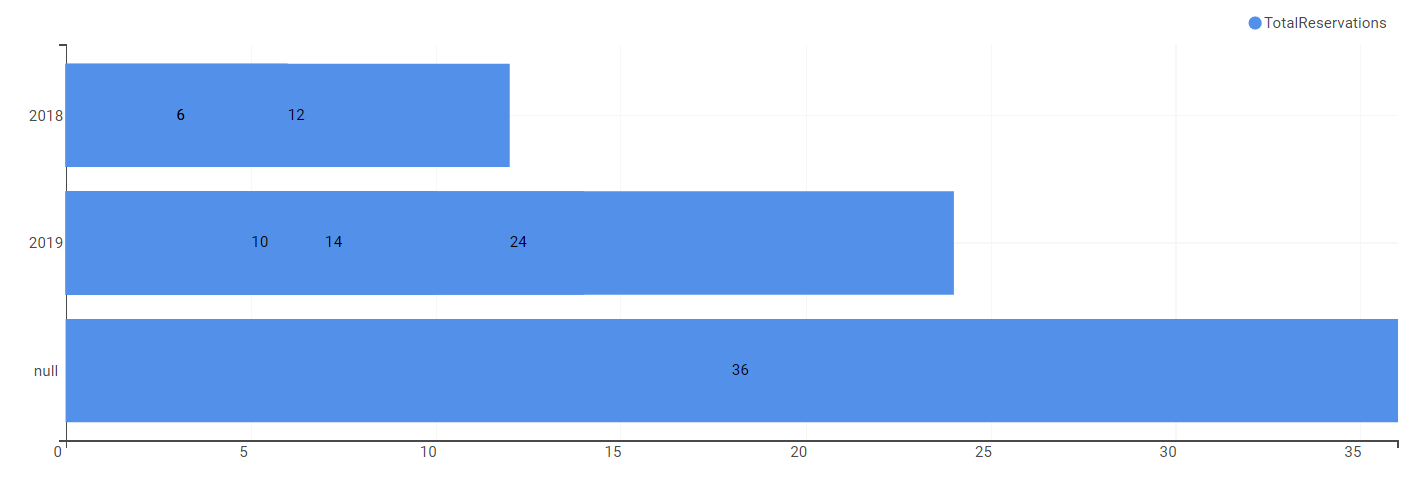
**2. Data Visualization (Created by ubiq)**

**a. Q1**

Single vs Multiple-functions total stays for each resort in 2019

**b. Q2**

Total number of reservations in 2018 vs 2019 

**c. Q3**

Total number of reservations for events in 2018 vs 2019