

Assumptions:

- 1) A numerical rating of 1-5 is given for each experience (5 for an excellent experience and 1 for a poor experience)
 - assume that rating will have no decimals
- 2) The host can also include a message to the guest in their offer.
 - assume guest has the ability to message; which means I assume that this message is not optional.
- 3) Q2e has no order

Q2a

```
SELECT DISTINCT date_format(B.visit_date, '%d/%m/%Y') AS "Date of Visit",
B.meal_type AS "Meal",
BL.booking_district "Requested Location",
G.name AS "Name of Guest",
B.adult_no + B.child_no AS "Number of Participants",
date_format(B.booking_expirydate, '%d/%m/%Y') AS "Expiry date of Request"
FROM booking B
INNER JOIN booking_has_location BL ON B.booking_id = BL.booking_id
INNER JOIN guest G ON G.guest_id = B.guest_id
WHERE B.visit_date >= NOW()
ORDER BY B.visit_Date ASC;
```

#Q2a generated this on the 22/11/2019

```
1 • SELECT DISTINCT date_format(B.visit_date, '%d/%m/%Y') AS "Date of Visit",
2   B.meal_type AS "Meal",
3   BL.booking_district "Requested Location",
4   G.name AS "Name of Guest",
5   B.adult_no + B.child_no AS "Number of Participants",
6   date_format(B.booking_expirydate, '%d/%m/%Y') AS "Expiry date of Request"
7 FROM booking B
8 INNER JOIN booking_has_location BL ON B.booking_id = BL.booking_id
9 INNER JOIN guest G ON G.guest_id = B.guest_id
10 WHERE B.visit_date >= NOW()
11 ORDER BY B.visit_Date ASC;
12
13 #Q2a generated this on the 22/11/2019
```



| Result Grid | | | | | | |
|-------------|---------------|--------------|--------------------|---------------|------------------------|------------------------|
| | | Filter Rows: | | Export: | Wrap Cell Content: | |
| | Date of Visit | Meal | Requested Location | Name of Guest | Number of Participants | Expiry date of Request |
| ▶ | 23/11/2019 | lunch | Kallang | Cat | 22 | 21/10/2019 |
| | 24/11/2019 | dinner | Sentosa | Dog | 25 | 22/10/2019 |
| | 26/11/2019 | lunch | Changi | Giraffe | 31 | 23/10/2019 |
| | 27/11/2019 | dinner | Bedok | Horse | 34 | 24/10/2019 |
| | 28/11/2019 | dinner | Tampines | Ally | 37 | 25/10/2019 |

2b

```
SELECT BL.booking_district AS "Location",
L.region_name AS "Region",
Count(S.booking_status) AS "Number of Comfirmed
Bookings"
FROM booking_has_location BL
INNER JOIN status S ON BL.booking_id = S.booking_id
INNER JOIN booking B ON B.booking_id = BL.booking_id
INNER JOIN location L on BL.location_id = L.location_id
WHERE S.booking_status = "Confirmed"
AND S.offer_status = "Accepted"
AND B.visit_date between "2019-10-01" AND "2019-12-31"
GROUP BY BL.booking_district
ORDER BY count(S.booking_status) DESC;
```

#Q2b generated this on the 22/11/2019

```
1 • SELECT BL.booking_district AS "Location",
2 L.region_name AS "Region",
3 Count(S.booking_status) AS "Number of Comfirmed Bookings"
4 FROM booking_has_location BL
5 INNER JOIN status S ON BL.booking_id = S.booking_id
6 INNER JOIN booking B ON B.booking_id = BL.booking_id
7 INNER JOIN location L on BL.location_id = L.location_id
8 WHERE S.booking_status = "Confirmed"
9 AND S.offer_status = "Accepted"
10 AND B.visit_date between "2019-10-01" AND "2019-12-31"
11 GROUP BY BL.booking_district
12 ORDER BY count(S.booking_status) DESC;
13
14 #Q2b generated this on the 22/11/2019
```

| Result Grid | | | |
|--|--------|------------------------------|--|
| Filter Rows: <input type="text"/> | | | |
| Export:  | | | |
| Wrap Cell Content:  | | | |
| Location | Region | Number of Confirmed Bookings | |
| Changi | East | 3 | |
| Yishun | North | 3 | |
| Woodlands | North | 2 | |
| Mandai | North | 2 | |
| Bedok | East | 2 | |
| Tampines | East | 2 | |
| Sembawang | North | 2 | |
| Pasir Ris | East | 2 | |
| Bukit Merah | South | 2 | |
| Downtown | South | 2 | |

2c)

```
Select H.name "Host Name",
HL.host_district AS "District",
format(avg(F.host_rating),1) AS "Average Rating",
round(sum(HGT.transaction_amount),2) AS "Total Amount Received
($)"
FROM host H
INNER JOIN host_has_location HL ON H.host_id = HL.host_id
INNER JOIN hostguest_has_transaction HGT ON H.host_id =
HGT.host_id
INNER JOIN feedback F ON H.host_id = F.host_id
WHERE YEAR(HGT.date) = 2019
GROUP BY H.name
ORDER BY sum(HGT.transaction_amount) DESC;
```

#Q2c generated this on the 22/11/2019

```
1 • Select H.name "Host Name",
2 HL.host_district AS "District",
3 format(avg(F.host_rating),1) AS "Average Rating",
4 round(sum(HGT.transaction_amount),2) AS "Total Amount Received ($)"
5 FROM host H
6 INNER JOIN host_has_location HL ON H.host_id = HL.host_id
7 INNER JOIN hostguest_has_transaction HGT ON H.host_id = HGT.host_id
8 INNER JOIN feedback F ON H.host_id = F.host_id
9 WHERE YEAR(HGT.date) = 2019
10 GROUP BY H.name
11 ORDER BY sum(HGT.transaction_amount) DESC;
12
13 #Q2c generated this on the 22/11/2019
```

| Host Name | District | Average Rating | Total Amount Received (\$) |
|------------|-------------|----------------|----------------------------|
| Durian | Ang Mo Kio | 4.0 | 24410.50 |
| Stefanie | Woodlands | 4.7 | 22521.00 |
| Apple | Bukit Merah | 3.6 | 14987.50 |
| Fig | Sentosa | 4.5 | 8871.40 |
| Cherry | Jurong East | 5.0 | 7307.70 |
| Elderberry | Yishun | 4.5 | 6972.40 |
| Banana | Changi | 3.0 | 5150.40 |

2d)

```
SELECT date_format(HGT.date, '%d %M %Y') AS "Date",
IF(HGT.transaction_id = 'REVE', concat(concat(upper(left(B.meal_type,1)),substr(B.meal_type,2)),
with ', G.name,' from ',G.nationality), HGT.transaction_desc) AS "Description",
HGT.transaction_amount "Amount ($)"
FROM hostguest_has_transaction HGT
INNER JOIN booking B ON B.booking_id = HGT.booking_id
INNER JOIN guest G on G.guest_id = B.guest_id
WHERE HGT.host_id = 'stefanie@myrp.com.sg'
AND Month(HGT.date) = 10
AND YEAR(HGT.date) = 2019
ORDER BY HGT.date ASC, HGT.transaction_amount DESC;
```

#Q2d generated this on the 22/11/2019

```
1 • SELECT date_format(HGT.date, '%d %M %Y') AS "Date",
2 IF(HGT.transaction_id = 'REVE', concat(concat(upper(left(B.meal_type,1)),substr(B.meal_type,2)), ' with ', G.name, ' from ',G.nationality), HGT.transaction_desc) AS "Description",
3 HGT.transaction_amount "Amount ($)"
4 FROM hostguest_has_transaction HGT
5 INNER JOIN booking B ON B.booking_id = HGT.booking_id
6 INNER JOIN guest G on G.guest_id = B.guest_id
7 WHERE HGT.host_id = 'stefanie@myrp.com.sg'
8 AND Month(HGT.date) = 10
9 AND YEAR(HGT.date) = 2019
10 ORDER BY HGT.date ASC, HGT.transaction_amount DESC;
11
12 #Q2d generated this on the 22/11/2019
```

| Date | Description | Amount (\$) |
|-----------------|------------------------------|-------------|
| 02 October 2019 | Lunch with Ally from Germany | 162.00 |
| 02 October 2019 | Commission for stay ally | -16.20 |
| 09 October 2019 | Lunch with Ally from Germany | 2928.00 |
| 09 October 2019 | Commission for stay ally | -292.80 |
| 16 October 2019 | Dinner with Cat from China | 220.00 |
| 16 October 2019 | Commission for stay cat | -22.00 |

2e)

```
SELECT DISTINCT G.Nationality AS "Country",
count(S.booking_status) AS "Number of Confirmed Bookings",
format(avg(B.adult_no + B.child_no),1) AS "Average Number of Participants Per Visit",
max(B.adult_no + B.child_no) AS "Maximum Number of Participants Per Visit",
format(B.total_cost,2) AS "Total Amount Collected From Bookings ($)"
FROM Guest G
INNER JOIN Booking B ON G.guest_id = B.guest_id
INNER JOIN Status S ON S.booking_id = B.booking_id
WHERE S.booking_status = 'Confirmed'
AND year(B.booking_date) = 2019
GROUP BY G.nationality;
```

#Q2e generated this on the 22/11/2019

```
1 • SELECT DISTINCT G.Nationality AS "Country",
2   count(S.booking_status) AS "Number of Confirmed Bookings",
3   format(avg(B.adult_no + B.child_no),1) AS "Average Number of Participants Per Visit",
4   max(B.adult_no + B.child_no) AS "Maximum Number of Participants Per Visit",
5   format(B.total_cost,2) AS "Total Amount Collected From Bookings ($)"
6 FROM Guest G
7 INNER JOIN Booking B ON G.guest_id = B.guest_id
8 INNER JOIN Status S ON S.booking_id = B.booking_id
9 WHERE S.booking_status = 'Confirmed'
10 AND year(B.booking_date) = 2019
11 GROUP BY G.nationality;
12
13 #Q2e generated this on the 22/11/2019
```

| Country | Number of Confirmed Bookings | Average Number of Participants Per Visit | Maximum Number of Participants Per Visit | Total Amount Collected From Bookings (\$) |
|---------------|------------------------------|--|--|---|
| Germany | 6 | 15.0 | 37 | 159.00 |
| Malaysia | 4 | 7.5 | 10 | 248.00 |
| China | 6 | 10.5 | 22 | 498.00 |
| United States | 8 | 13.4 | 25 | 1,008.00 |
| Thailand | 5 | 11.0 | 19 | 130.00 |
| Vietnam | 6 | 18.0 | 31 | 1,498.00 |
| Australia | 5 | 21.6 | 34 | 2,373.00 |