

Name: Jomel M. Sevillo

Q1. Paste your query for Q1

```
/*the earliest reporting date available in the 'case_info' table*/
SELECT
MIN(J.dateRepConf) AS earliest_date_available
FROM dabc10-387511.mock_exam.mock_dataset_case_info J
ORDER BY
1;
```

Row	earliest_date_available
1	2020-01-30

Q2. Paste your query for Q2

How many rows are there in total in the 'testing_aggregates' table?

1 – 50 of 98230

Q3. Paste your query for Q3

Which table is better suited to find the profile of people infected with COVID? This question is required.*

case_info

Q4. Paste your query for Q4.

```
/*Q4.How many unique non-null regions are there in the case_info table? This question is required.*/
SELECT
COUNT(DISTINCT J.RegionRes) AS unique_nonNull_region
FROM dabc10-387511.mock_exam.mock_dataset_case_info J
WHERE
J.RegionRes IS NOT NULL
```

JOB INFORMATION		RESULTS	JSON	EXECUTION DETAILS
Row	unique_nonNull_region			
1		18		

Q5. Paste your query for Q5.

```
/*Q5.How many unique non-null facilities are there in the testing_aggregates table? This question is required.*/
SELECT
COUNT(DISTINCT J.facility_name) AS unique_number_facility
FROM dabc10-387511.mock_exam.mock_dataset_testing_aggregates J
WHERE
J.facility_name IS NOT NULL;
```

JOB INFORMATION		RESULTS	JSON	EXECUTION DETAILS
Row	unique_number_facility			
1		184		

Q6. Paste your query for Q6

```
/*Q6. Show the split between gender in the total confirmed cases. Include only the
following months: March 2020, June 2020, Sept 2020, Dec 2020. Order results by
earliest date first, then by gender ascending (i.e. Female before Male). What will be
the date and gender in the first row of your output?*/
SELECT
J.DateRepConf
,J.sex
FROM dabc10-387511.mock_exam.mock_dataset_case_info J
WHERE
DATE(J.DateRepConf) BETWEEN DATE('2020-03-01') AND DATE('2020-03-31')
OR DATE(J.DateRepConf) BETWEEN DATE('2020-06-01') AND DATE('2020-06-30')
OR DATE(J.DateRepConf) BETWEEN DATE('2020-09-01') AND DATE('2020-09-30')
OR DATE(J.DateRepConf) BETWEEN DATE('2020-12-01') AND DATE('2020-12-31')
ORDER BY
1 ASC ,2 ASC
LIMIT
1;
```

Query results

SAVE RESULTS ▾ EXPLC

JOB INFORMATION		RESULTS	JSON	EXECUTION DETAILS	EXECUTION GRA
Row	DateRepConf	sex			
1	2020-03-06	MALE			

Q7. Paste your query for Q7.

```
/*Q7.Which months and facilities registered a total monthly increase in positive tests
> 5000? Order results by highest monthly increase first. What is the facility name of
the first row of your output? */
SELECT
J.report_date
,J.facility_name
,J.cumulative_positive_individuals
FROM dabc10-387511.mock_exam.mock_dataset_testing_aggregates J
WHERE
J.cumulative_positive_individuals > 5000
ORDER BY
3 DESC
LIMIT
1;
```

Query results

SAVE RESULTS EXPLORE DATA

JOB INFORMATION		RESULTS	JSON	EXECUTION DETAILS	EXECUTION GRAPH
Row	report_date	facility_name		cumulative_positive_individuals	
1	2020-12-31	Detoxicare Molecular Diagnostics Laboratory		52416	

Q8. Paste your query for Q8.

```
/*Q8.Which months and regions registered more than 2000 unique male cases? Consider only 'NCR' and 'Region IV-A: CALABARZON'. Order results by count of unique male cases ascending.
```

```
What is the count of the unique male cases in the first row of your output?*/
```

```
SELECT  
DATE_TRUNC(J.DateRepConf, MONTH) AS month  
, J.RegionRes  
, COUNT(J.Sex) AS count_male_cases  
FROM dabc10-387511.mock_exam.mock_dataset_case_info J  
WHERE  
J.Sex = 'MALE'  
AND J.RegionRes IN ('NCR', 'Region IV-A: CALABARZON')  
GROUP BY  
1,2  
HAVING  
COUNT(J.Sex) > 2000  
ORDER BY  
3 ASC  
LIMIT  
1;
```

Query results SAVE RESULTS

	JOB INFORMATION		RESULTS	JSON	EXECUTIO
Row	month	RegionRes	count_male_cases		
1	2020-04-01	NCR	2069		

Q9. Paste your query for Q9.

```
/*Q9. As of October 31, 2020, which facility registered the highest cumulative positivity rate? Show the negativity rate as well. For facilities where cumulative tests is 0, assume that the positivity rate is 0, and negativity rate is 1.*/
SELECT
J.facility_name
,CASE
WHEN J.cumulative_samples_tested = 0 THEN 0
ELSE J.cumulative_positive_individuals/J.cumulative_samples_tested
END AS cumulative_positivity_rate
,CASE
WHEN J.cumulative_samples_tested = 0 THEN 1
ELSE 1 - J.cumulative_negative_individuals/J.cumulative_samples_tested
END AS cumulative_negativity_rate
FROM dabc10-387511.mock_exam.mock_dataset_testing_aggregates J
WHERE
DATE(J.report_date) = DATE('2020-10-31')
ORDER BY
2 DESC;
```

JOB INFORMATION		RESULTS	JSON	EXECUTION DETAILS		EXECUTION GR
Row	facility_name			cumulative_positivity_rate	cumulative_negativity_rate	
1	Sta. Rosa CHO GeneXpert Lab...			0.60818713450292394	0.60818713450292394	
2	President Ramon Magsaysay Provincial Hospital GeneXpert Laboratory			0.51724137931034486	0.51724137931034475	
3	Dr. Jose N. Rodriguez Memorial Hospital and Sanitarium (TALA) GeneXpert			0.38929088277858176	0.43608297153883258	

Results per page: 50 ▾ 1 – 5

Q10. Paste your query for Q10.

```
/*Q10. Write a query then output the percentage of total cases contributed by each gender. Show this on a monthly basis. Order by month and then by gender. What is the male percentage on the first row of your output?*/
```

```
SELECT
DATE_TRUNC(J.DateRepConf, MONTH) AS month
, COUNT
(CASE
WHEN J.Sex = 'MALE' THEN 'total_cases_male'
END)/COUNT (*) AS pct_total_male
, COUNT
(CASE
WHEN J.Sex = 'FEMALE' THEN 'total_cases_female'
END)/COUNT (*) AS pct_total_cases_female
FROM dabc10-387511.mock_exam.mock_dataset_case_info J
GROUP BY
1
ORDER BY
1,2,3;
```

JOB INFORMATION		RESULTS	JSON	EXECUTION DETAILS	
Row	month	pct_total_male		pct_total_cases_female	
1	null	0.0		0.0	
2	2020-01-01	0.0		1.0	
3	2020-02-01	0.5		0.5	
4	2020-03-01	0.615533043897732...		0.38446695610226722	
5	2020-04-01	0.511142498430634		0.48885750156936597	
6	2020-05-01	0.563657407407407...		0.43634259259259262	