

# CCi Data Analyst Assessment

## Part 1 - Data Querying

- Which client has conducted the most assessments in total?
- Solution: client3 conducted most assessment

```
SELECT client,count(assessment_date) as assessments_total  
  
FROM maturity_assessments_dataset  
  
group by client  
  
order by assessments_total desc
```

- Across how many countries are our clients assessing TRACC practices?
- Solution: across 25 countries

```
select count(distinct country)  
  
from maturity_assessments_dataset
```

- How many assessments were conducted in total for all clients, after 31 March 2018?
- Solution: The were 3161 assessment conducted in total

```
select count(assessment_date)  
  
from maturity_assessments_dataset  
  
WHERE assessment_date> '31/03/2018'
```

- How many unique TRACC practices did Client 48 assess?
- Solution: client 48 assess 4 tracc\_practise

```
select client, count(distinct tracc_practice)  
  
from maturity_assessments_dataset  
  
where client = 'client 48'
```

- How many assessments were done for each practice in 2017?
- Solution:

5S	1769
Focused Improvement	1282
Leading and Managing Change	22
Teamwork	1730
Visual Management	1494

```
select tracc_practice, count(assessment_date) as assessment_done
```

```
from maturity_assessments_dataset
```

```
where assessment_date >= '01/01/2017' AND assessment_date <= '31/12/2017'
```

```
group by tracc_practice
```

- Which clients have achieved a maturity score greater than 2.5, for the 5S and Teamwork practices?
- Solution:

Client 1	5S	2.53
Client 3	5S	2.69
Client 8	5S	2.56
Client 10	Teamwork	2.59
Client 2	Teamwork	2.79
Client 13	5S	2.88
Client 15	5S	2.76
Client 11	5S	2.95
Client 18	5S	2.85
Client 20	5S	2.59
Client 5	5S	2.9
Client 24	5S	2.89
Client 28	5S	3.86
Client 4	5S	2.73
Client 31	5S	3.29
Client 32	5S	2.68
Client 33	5S	2.67

Client 21	5S	2.69
Client 41	5S	2.75
Client 26	5S	2.84
Client 6	5S	3.74
Client 44	5S	3.04
Client 19	5S	3.73
Client 38	5S	3.68
Client 48	5S	2.51

```

select client,tracc_practice,tracc_maturity
from maturity_assessments_dataset
where tracc_practice in('5s' ,'teamwork') and tracc_maturity > 2.5
group by client

```