**SQL-101 Assessment**

Submission Mode: Excel File

1. Paste the Question and your Query on an Excel File and the output under it. One tab per question.
2. Each question carries 5 marks, and the result will be prorated to 100%
3. Create a table named **HCP\_List\_1** in SQL with the data shared in the assessment data set workbook.
   1. Columns: HCP ID, Date of Joining, Specialty Group, Address Type, District, Region, Diagnosed Patients
4. Select all records from HCP\_List\_1 where the diagnosed patient count is greater than 120,000
5. Select all records from HCP\_List\_1 where the diagnosed patient count is between 100,000 and 120,000
6. Select distinct districts for HCPs from HCP\_List\_1 where the diagnosed patient count is greater than 120,000
7. Select all records for HCPs from HCP\_List\_1 where the diagnosed patient count is greater than 120,000 or the address type is the primary address
8. Select the top 2 ranked HCPs from HCP\_List\_1 based on diagnosed patients
9. Select all records for HCPs that joined in the years 2021 & 2020
10. Select all records for HCPs who joined post-July 2020 in ascending order of diagnosed patients
11. Convert specialty group column values to lowercase for all HCPs in Region\_2
12. Create a new column – “Population Group” in HCP\_List\_1. Update as per the rule:
    1. If an HCP has more than 130,000 diagnosed patients then high, more than 100,000 then medium else Low
13. Get distinct lengths of values in the column Specialty Group
14. Get min, max, average, and sum of diagnosed patients from HCP\_List\_1
15. Create a new table HCP\_List\_2 where Address Type is Best Address
16. Update table HCP\_List\_2. Change Address Type to Secondary Address where Specialty Group is not either of HEM ONCOLOGY or MED ONCOLOGY
17. Insert a new row in the table HCP\_List\_2:
    1. HCP\_5678, 25/01/2021, MED ONCOLOGY, Best Address, Dist\_11, Region\_2, 132678
18. Delete all records from HCP\_List\_2 where the region is NULL
19. Get min, max, total patients, and count of distinct HCPs by district & region in HCP\_List\_1 where the HCP joining date is on or after January 1, 2019
20. Get the count of districts at the region Level from HCP\_List\_1
21. Select all regions in HCP\_List\_1 that have more than 2 district
22. Filter all specialty groups in HCP\_List\_1 that have more than 200,000 diagnosed patients
23. Drop/truncate: explain with examples the difference between Drop and truncate statements
24. Where/Having: explain with examples the difference between where and having statements