

## Pattern Interview -

There were three round which are as follows -

1. Technical (approx 1 hr)
2. HR (20 - 25 mins)
3. Interaction with MD ( 20 - 25 mins)

### 1. Technical Round - '

SQL ---->

1. Tell me about yourself
2. Some questions related to my previous job role
2. What are fact table and dimension table.
3. What clauses have you used in sql. (e.g. Where, select etc.)
4. What is the sequence of executions of these clauses.
5. What is the difference between where and having clause can we use having in place of where.
6. What does group by clause do?
7. What are correlated query and can you think of any practical example to use correlated subquery.
8. What is normalization and denormalisation ?
9. What are ACID Properties in sql?
10. What are window functions in sql?
11. What are the date and time functions you have used ? Find out the employees whose age is greater than 25 as of today.  
Table consist of two columns 1. employee name 2. employee dob
12. (Related to previous question) Lets say there are three dob 11 sep 2023, 12 sep 2023 and 13 sep 2023. Consider the date of consideration as 12 Sep 2023.  
Which employees will get selected given the condition as age >= 23
13. Given two tables below. find out the no. of record for left join, inner join, full outer join  
Table 1 - col values - 1 1 1 null 2  
Table 2 - col values - 1 1 null null 3
14. (Scenerio based question) Do you know what are stored processors in sql. Lets say there is a processor which take 10 secs in its execution.  
You have to reduce this time 1 sec what will you do?
15. What are indexes and what are its types
16. What is cardinality in database.
17. How do you design a database ? What are the different levels in that

Python ----->

1. write a list comprehension and lambda function to filter even numbers from a given a range(0,20)
2. What is the difference between merge and join in pandas dataframe.
3. How do you fill null values.
4. How can you delete the last col of a data frame.

DataWare House --->

1. What are OLAP and OLTP. Among normalisation and denormalisation which one will be used in context of these two.
2. When we use OLAP and OLTP
3. What is the difference between ELT and ETL? when do we use which one?

AWS ----->

1. What all the services have you used of AWS ? what is S3 ? in which format does S3 stores the data?
2. What is lambda in AWS?

GITHUB and Linux --->

1. Tell us all the commands you used for git hub?
2. Which command is used to push data
3. Which command is used to modify a file in git hub
4. how can we count the no. of words in a text file?

Airflow --->

1. What is airflow and what are dags
2. What are operators in airflow?
3. Schedule task1, task2, task3, task4 such that task2 executes after task1. Task3, task4 executes after task 2.
4. What if a task in a dag fails?

4. Can you make sure that the successor task should be evaluated even if the predecessor fails

Formal Conversation --->

1. Do you want to ask me any question?

2. HR Round

1. Tell me the biggest achievement you have?
2. You have done MTech in Civil from NIT? why are you changing your domain?
3. When did you feel lowest in your life in respect of your motivation?
4. How did you choose CDAC for your course?
5. During your CDAC course which moment was proudest for you?
6. Tell me about your family?
7. Do you want to ask me any question?

3. Interaction with MD

1. Started with introduction and some formal conversation on a topic common between your and his interest