Indus Valley Partners

Total Number of rounds: 5   **Level**: Easy

Total Number of candidates sat for the process: 29

Round 1: It was an aptitude + technical questions round which was conducted by Hackerrank.

There were 35 MCQ questions and 40 minutes were given. All the questions were quite easy. Some of the technical questions were directly taken from geeksforgeeks.org

After this round around **15 students** were selected for the next round.

Round 2: It was a paper coding round. 15 minutes were given to write the complete code of Armstrong number.

Tip: Write modular code, avoid silly mistakes, follow coding conventions, write comments, and handle exceptions.

After this round **9 candidates** were selected for the first technical interview.

Round 3: It was a technical interview round. A lot of questions were asked based on project and PL/SQL.

First he started with a puzzle: To divide a square in 4 equal parts in 5 different ways using only straight lines.

I had mentioned a project of Machine Learning at the top so, many machine learning questions were asked. Then he also asked me a few questions on data structure like what is stack, how does it work, where we use it, how do we implement it and then he asked a few questions on heap data structure, it's working, he also asked me to write a code for inserting an element in a max heap.

Then he asked a few questions from java like what is abstract class, when and why abstract class?

After that he asked a lot of questions from PL/SQL. Some of the questions were:

- Difference between a procedure and a function
  I told him almost 5 differences but he was looking for one particular difference which I didn't know. He even gave me a few hints, but I couldn't answer. So he finally told me the answer. As I had never read that difference so, I asked a few questions to him based on his answer because I was actually curious to get a few more details.
- Difference between Union and Union all
- He gave me two tables with columns A, B in table I and A, B, C in table II and I had to find all the rows which were present in column A of table I and not in table II.
  I used join query to solve but he asked me to do it with a different way so I used not in.
- He asked to find second maximum salary in a given employee table

- He finally asked me to display the duplicate names and their counts in the table. He even told me that if I write correct query for this one, he'll select me for the next round.

  I think he was expecting the answer using group by and having (which I used)

Round 4: In this round interview was taken by the director of the company. He started with the question: Why did I choose MSc and not MCA? Then he asked me a few puzzles

1. Crossing bridge with a single torch in minimum time.
2. 25 horses – minimum number of races
3. Then he asked me to code a problem: Sum of numbers from 1 to 100 but add 3 for the multiples of 3, 5 for the multiples of 5 and 15 for the multiples of 15.
4. And last puzzle was based on a finding realized profit.

   A person buys 100 shares @ 100 each on day 1

   100 @ 110 on day 2

   100 @ 120 on day 3

   Then he sells 50% of his shares on the 4th day. Using FIFO policy, what will be the realized profit?

Round 5: It was an HR round. Only basic HR questions were asked. She told me to go through my resume. I had mentioned an internship + volunteering work in Malaysia and she seemed interested in that and so she asked me a few questions on what I did there, what I learnt etc.

Then she asked me if I am okay with the work timings as they have told us that there are two work timings: 10am to 8pm and 1pm to 11pm. To which I obviously said yes.

At the end, she asked me if I have any questions to ask. So I asked a few questions based on company's future vision, the technology I will be working on and few more questions on my training period.

That's it!

Two students were selected in the end.

Additional tips: Be ready to answer anything on what you've written in your resume. Show your enthusiasm while solving problems and try to solve the problem by talking loudly so that you can involve your interviewer in your thought process. Sometimes they are more interested in how you approach a problem rather than just looking for a crisp answer. Always read about the company and ask questions based on what they do. Just be confident and don't get disheartened if you are not selected by any of the company because it actually depends a lot on your luck. But stay prepared, always!

Good Luck!