

Merilytics Interview Experience

Round 1 : Technical Round

Started with brief intro,

Part 1 : SQL

Employee Table

| Empid | Ename | Deptid | Salary |
|-------|-------|--------|--------|
| 1 | A | 10 | 20000 |
| 2 | B | 10 | 10000 |
| 3 | C | 20 | 30000 |
| 4 | D | 20 | 20000 |

Department Table

| Deptid | Dname | Location |
|--------|------------|-----------|
| 10 | IT | Hyderabad |
| 20 | Sales | Chennai |
| 30 | Operations | Mumbai |

Given the above table, He asked to write some simple SQL Queries

1. Write an SQL Query to find total count of employees
2. Write an SQL Query to find total count of employees in each department
3. Write an SQL Query to find which department has no employees in it
4. Write an SQL Query to find out what is the highest salary of employees department wise.
5. Write an SQL Query to find out what is the highest salary of employees department wise, also find out who gets that highest salary

Part 2 : Python

1. You are given a email string in format `firstname.lastname@domain.com` need to separate firstname, lastname and domain from the string.
2. You are given a string write a code to reverse the string.
3. You are given a string write a code to reverse the occurrence of words in string. Ex: "Its me Hi" changes to "Hi me Its".

Done with round 1 :)

Round 2 : Technical Round

Started with detailed intro about me and my projects mentioned in my resume.

Asked some basic questions on Machine Learning(since my projects were based on machine learning) and asked to explain the projects in detail.

Part 1: SQL

| EMPLOYEES | | | | | |
|-------------|----------|------------|--------|------------|--------|
| Employee_id | Employee | Department | Region | DOJ | Salary |
| 108023 | Ahmed | Marketing | East | 02-04-2021 | 64900 |
| 492713 | Abdul | Analytics | North | 23-05-2018 | 124999 |
| 718912 | Abhilash | Business | East | 23-04-2019 | 105876 |
| 915867 | Abhishek | Operations | North | 16-10-2020 | 82332 |
| 268203 | Abhijith | Marketing | South | 25-02-2020 | 62378 |
| 865214 | Abhinav | Analytics | South | 11-01-2020 | 104933 |
| 399100 | Ankur | Business | South | 01-12-2019 | 81672 |
| 692011 | Afzal | Marketing | West | 04-09-2019 | 56094 |

| LOCATIONS | |
|------------|-----------|
| Department | Location |
| Marketing | Mumbai |
| Analytics | Hyderabad |
| Business | Hyderabad |
| Operations | Bangalore |

Given the above table

1. Write a SQL query to find employee with 3rd highest salary with using LIMIT and without using LIMIT
2. Write a SQL query to display locations of all employees
3. Write a SQL query to find no of employees working in each Location
4. Write a SQL query to rank employees based on their salary
5. Write a SQL query to select only odd entries from table

Part 2 : Puzzle

He asked a simple puzzle which can be found here : <https://puzzles.nigelcoldwell.co.uk/sixtyfive.htm>

OT was of 30 MCQ and 30 min

15 aptitude and 15 programming fundamentals

regarding my interview there were 2 case studies- one was pizza making company with some 30 min delivery guarnatee....and another was potato chips making company taking potatoes from 4 farmers.