## **Mentoring Session Week 1**

Pl. ensure that "hr\_emp" database is created or downloaded from MYSQL sample databases before getting started with this exercise.

Once MySQL workbench is launched, spend couple of minutes in familiarising participants with

MYSQL Workbench options as video has details of SQL lite and hence there is every chance that participants are not familiar with MYSQL Workbench.
Before taking this session, please ensure that participants are well aware and familiar with basic MYSQL commands as in this session focus in on Joins and subquery.
Using HR Employees dataset to answer the following questions:
## Question 1
Create a HR Employees database.
CREATE DATABASE HR_EMP;
use hr_emp;
## Question 2
Write a query to view a structure of the table.
describe employees;
## Question 3
Display the details of all employees working in the company.
select *
from employees;
## Question 4

-- Display employee id , first name, last name and hiring date of employees, who work in department no 38.



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select employee id, first name, last name, hire date
from employees
where department id = 38;
## Question 5
-- Retrieve the phone number, job id and salary of the employee whose name is 'Gopi Kumar'.
select phone number, job id, salary
from employees
where first name = "Gopi"
and last_name = "Kumar";
## Question 6
-- Retrieve all the distinct salary values from the dataset.
select distinct (salary)
from employees;
## Question 7
-- Fetch employees who were hired before 1991 February 4th.
select *
from employees
where (hire_date < '1991-02-04');
## Question 8
-- Write a SQL query to print details of the employees who joined the company in January
1983.(Order by hire date)
select *
from employees
where hire date
between '1983-01-01'
and '1983-01-31'
order by hire_date;
```

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-- Write a query to fetch employee details from department 77 and department 99. select \* from employees where department\_id in (77,99); ## Question 10 -- Write a guery to fetch the details of the employees whose salary is in the range of 8000 to 9000. select \* from employees where salary >= 8000 and salary <= 9000; ## Question 11 -- Write a SQL query to fetch the details of top 5 employees who earn the highest salary in the company select \* from employees order by salary desc limit 5; ## Question 12 -- Write a SQL query to print details of the employees whose first name starts with 'a' and contains only 4 alphabets. select \* from employees where length(first\_name) = 4 and first\_name like 'a\_\_\_';



-- Write a SQL query to print details of the employees whose first\_name ends with 'h' and contains only 6 alphabets.

select \* from employees where first name like '%h' and length(first\_name) = 6; ## Question 14 -- Retrieve all the distinct salary values from dataset select distinct salary from employees; select \* from employees; ## Question 15 -- Write a SQL query to print the first name from employees table after removing white spaces from the right side. select RTRIM(first\_name) as Name from employees; ## Question 16 -- Write a SQL query to print the first name from employees table after replacing 'a' with 'A'. select replace(first\_name, 'a', 'A') as first\_name from employees;



-- Write a SQL query to fetch, if there are any duplicate records in the table. select first\_name, last\_name, department\_id, count(\*) as cnt from employees group by first name, last name, department id having count(\*) > 1; ## Question 18 -- Select the names of employees whose salary is greater than the average salary of all employees in department 42. select first\_name, last\_name from employees where department id = 42 group by salary having salary > avg(salary); ## Question 19 -- Write a sql query to fetch the details of an employee -- Generate another as commission percentage column. And wherever there are null values in this column, convert it to 0. select employee\_id, first\_name, salary, commission\_pct, coalesce(commission\_pct,0) from employees; ## Question 20 -- Find out how many employees are in department 99. select count('first name') as Number of Employees from 'employees' where 'department id' = 99;

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# ## Question 21 -- Write a query to get the number of employees with the same job. select department\_id, COUNT(\*) as Number\_of\_Employees from employees group by department id; ## Question 22 -- Write a query to get the difference between the highest and lowest salaries. SELECT MAX(salary) - MIN(salary) DIFFERENCE FROM employees; ## Question 23 -- Write a query to get the department ID and the total salary payable in each department. select department\_id, SUM(salary) from employees group by department\_id; ## Question 24 -- Write a query to find the manager ID and the first name, last name and salary of the lowestpaid employee for that manager. SELECT manager\_id, first\_name, last\_name, MIN(salary) FROM employees WHERE manager\_id IS NOT NULL GROUP BY manager\_id

ORDER BY MIN(salary) DESC;



-- Write a query to find the details of employees, who got hired very early and got commission percentage.

SELECT first\_name, last\_name, salary,commission\_pct, min(hire\_date)

FROM employees

WHERE commission\_pct IS NOT NULL

GROUP BY hire\_date

ORDER BY MIN(hire\_date) asc;

## Question 26

-- Write a query to get the job\_id and related employee's id.

select job\_id, GROUP\_CONCAT(employee\_id, ' ') as 'Employees ID'

from employees

group by job id;