**Task - 5**

**Employee Data: My-Sql**

Given 6 tables ,which are having information of employee and details includes their department info,office info ,salary, DOJ and insurance info

i. Employee\_Table( emp\_id(PK), name, immediate\_head\_id,dept\_id(FK), insurance\_id(FK), employee\_info(FK))

ii. Department\_Table (dept\_id(PK), dept\_name)

iii. Insurance\_Table (insurance\_id(PK), insurance\_name)

iv. Office\_Table(office\_id(PK), office\_name, place)

v. Employee\_Office\_Table(id(PK), emp\_id(FK), office\_id(FK)

vi. Employee\_Info\_Table(id(PK), DOJ, salary)

Write the queries to,

1. Get the list of employee details which should include their name,department and

name of the insurance type

**SELECT t1.name,t2.dept\_name,t3.insurance\_name from Employee\_Table t1 Join Department\_Table t2 ON t1.dept\_id = t2.dept\_id JOIN Insurance\_Table t3 ON t1.insurance\_id = t3.insurance\_id**

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2.Get the list of departments of employees working at particular place(e.g: Madhapur)

**SELECT t1.name,t3.place from Employee\_Table t1 Join Employee\_Office\_Table t2 ON t1.emp\_id = t2.emp\_id JOIN Office\_Table t3 ON t2.office\_id = t3.office\_id WHERE t3.place="hyderabad"**



3.Get the count of employees working in each location

**SELECT COUNT(t1.name) as COUNT,t3.place from Employee\_Table t1 Join Employee\_Office\_Table t2 ON t1.emp\_id = t2.emp\_id JOIN Office\_Table t3 ON t2.office\_id = t3.office\_id GROUP BY t3.place**



4.Get the third highest salaried employee name, insurance name and salary(Joins)

**SELECT DISTINCT(t4.salary),t1.name,t2.insurance\_name from Employee\_Table t1 JOIN Insurance\_Table t2 ON t1.insurance\_id=t2.insurance\_id JOIN Employee\_Office\_Table t3 ON t1.emp\_id=t3.emp\_id JOIN Employee\_Info\_Table t4 ON t4.id=t3.id ORDER BY t4.salary DESC LIMIT 2,1**

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5.Get the Average salary of employees from each department for a particular location

**SELECT AVG(t4.salary),t3.place FROM Employee\_Table t1 JOIN Employee\_Office\_Table t2 ON t1.emp\_id=t2.emp\_id JOIN Office\_Table t3 ON t3.office\_id=t2.office\_id JOIN Employee\_Info\_Table t4 ON t2.id=t4.id GROUP BY t3.place**

**original: Average (output) :**



6.Get the sum of salaries of the employees joined after 02-01-2022 working in ‘Madhapur’

**SELECT SUM(t3.salary) as sum\_of\_sal from Employee\_Table t1 JOIN Employee\_Office\_Table t2 on t1.emp\_id=t2.emp\_id JOIN Employee\_Info\_Table t3 on t2.id=t3.id JOIN Office\_Table t4 ON t2.office\_id=t4.office\_id WHERE t3.DOJ>20-02-2022 and t4.place="hyderabad"**

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7.Get name, department, salary of employees who joined after 20-02-2022 and salary is greater than 20000 and has insurance either in lic or icici or both and whose work location is madhapur.

**SELECT t1.name,t5.dept\_name,t3.salary as sum\_of\_sal from Employee\_Table t1 JOIN Employee\_Office\_Table t2 on t1.emp\_id=t2.emp\_id JOIN Employee\_Info\_Table t3 on t2.id=t3.id JOIN Office\_Table t4 ON t2.office\_id=t4.office\_id JOIN Department\_Table t5 on t1.dept\_id=t5.dept\_id JOIN Insurance\_Table t6 on t1.insurance\_id=t6.insurance\_id WHERE t3.DOJ>20-02-2022 and t3.salary>20000 and t4.place="hyderabad" and (t6.insurance\_name LIKE "LIC%" or t6.insurance\_name LIKE "ICICI%")**



8. Get the list of employee names and their respective immediate head name

**SELECT t1.name,t2.name from Employee\_Table t1 JOIN head\_info t2 on t1.immediate\_head\_id=t2.immediate\_head\_id**

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9. Get the list of employee names and their respective immediate head name with their respective department names.

Eg: emp name | emp department name | immediate head name | immediate head department name

**SELECT t1.name,t3.dept\_name,t2.name,t4.dept\_name from Employee\_Table t1 JOIN head\_info t2 on t1.immediate\_head\_id=t2.immediate\_head\_id JOIN Department\_Table t3 on t1.dept\_id=t3.dept\_id JOIN Department\_Table t4 on t2.dept\_id=t4.dept\_id**



10. Get the list of employees whose immediate head working in location ‘madhapur’

and whose salary is less than twice the salary of their respective immediate heads.

**SELECT t1.name,t3.salary,t4.name,t4.salary,t4.place as head\_place from Employee\_Table t1 JOIN Employee\_Office\_Table t2 ON t1.emp\_id=t2.emp\_id JOIN Employee\_Info\_Table t3 on t2.id=t3.id JOIN head\_info t4 ON t1.immediate\_head\_id=t4.immediate\_head\_id WHERE t4.place="madhapur" and t4.salary>(2\*t3.salary)**

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**Assessment :**

\* Come up with database model other than above which include more than 4 tables which can cover above query scenarios **(Come up with your individual database model only)**