**DBMS LAB-09(20-02-2025)**

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1. Create a view “engineers” containing details of employees working as engineers. The view,  engineers should have emp\_id, f\_name, l\_name, salary and d\_name attributes.

2. Create a view “manager” containing emp\_id as ID, f\_name as name, and annual salary as ANNSAL  for employees who work as managers.

3. Modify the view “manager” -- make the attribute ‘name’ a combination of f\_name and l\_name, and  add d\_name attribute as ‘department’.

4. Create view ‘dept\_wise’ with attributes name,minsal,maxsal, and avgsal, containing information of  d\_name and department wise minimum salary, maximum salary and average salary.

5. Create a view “emp\_location” with attribute name and location having information about the  employees f\_name and their department’s location.

6. Add attribute job\_type as ‘job’ in the emp\_location view where the tuples should be in ascending  order of job\_type.

7. Create a view ‘emp5’ with f\_name as name and salary as ‘sal’ from the employee table.  8. Show the schema description of the emp5 view.

9. Show the values from the emp5 view.

10. Find the salary of emma.

It can be done in two different ways:

select sal from emp5 where name=’emma’; Or select salary from employee where f\_name=’emma’;  11. Update emp5 view, increase the salary of emma, and make it 77000.

12. Check if emma’s salary has been updated in the emp5 view.

13. Check if emma’s salary has been updated in the parent employee table.  14. Update the employee table, increase the salary of emma, and make it 177000.  15. Check if the change is reflected in the emp5 view.

16. Update the view emp\_location. Change the job\_type of Saul from engineer to ‘COO’.

When can a view be updated?

1. The view is defined based on one and only one table.

2. The view should not have any field made out of aggregate functions.

3. The view must not have any DISTINCT clause in its definition.

4. The view must not have any GROUP BY or HAVING clause in its definition.  5. The view must not have any SUBQUERIES in its definitions.

6. If the view you want to update is based upon another view, the later should be updatable. 17. Create a table emp8 with attribute id and name.

18. Create a synonym (named - emp08) for emp8.

19. Describe emp8 and emp08.

20. Insert a tuple into emp8.

21. Display all tuples from emp08.

22. Insert a tuple into emp08.

23. Display all tuples from emp8.

24. Add a column dept to emp8 table. 25. Describe emp08.

26. Delete all tuples from emp08.

27. Rename emp8 to employee8.

28. Describe emp008.

29. Drop emp008.

30. Create an index on the attribute id of emp table. 31. Drop the index created in question no. 30.