

DBMS LAB ASSIG 9

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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.

CREATE TABLE Engineer

(

Emp\_id VARCHAR(30),

F\_name VARCHAR(30),

L\_name VARCHAR(30),

Salary VARCHAR(30),

D\_name VARCHAR(30),

Experience VARCHAR(30),

Proficiency VARCHAR(30),

Highest\_Education VARCHAR(30)

);

INSERT INTO Engineer VALUES('2001','Ashish','Kapoor','200000','Robotics','2','Intermediate','Bachelors');

INSERT INTO Engineer VALUES('2002','Abhinav','Kaif','320000','Mechatronics','5','High','Masters');

INSERT INTO Engineer VALUES('2003','Agastya','Khan','430000','Civil','0','Ammature','Bachelors');

INSERT INTO Engineer VALUES('2004','Ankur','Kataria','540000','Material\_Science','3','Intermediate','Masters');

INSERT INTO Engineer VALUES('2005','Aamir','Kumar','650000','Aeronautics','1','Ammature','Bachelors');

INSERT INTO Engineer VALUES('2006','Ajay','Ketan','760000','Mechanical','11','High','Masters');

INSERT INTO Engineer VALUES('2007','Amit','Kartik','870000','Production','7','High','Masters');

INSERT INTO Engineer VALUES('2008','Anmol','Kanishk','980000','Naval\_fluid','1','Ammature','Bachelors');

 CREATE VIEW engineers AS

 SELECT Emp\_id,F\_name,L\_name,Salary,D\_name

 FROM ENGINEER

 WHERE Emp\_id IS NOT NULL;

SELECT \* FROM engineers;

-- 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.

 CREATE TABLE MANAGERS

(

ID VARCHAR(30),

Name VARCHAR(30),

L\_name VARCHAR(30),

ANNSAL VARCHAR(30),

Experience VARCHAR(30),

Proficiency VARCHAR(30),

Highest\_Education VARCHAR(30)

);

INSERT INTO MANAGERS VALUES('2001','Ashish','Kapoor','200000','2','Intermediate','Bachelors');

INSERT INTO MANAGERS VALUES('2002','Abhinav','Kaif','320000','5','High','Masters');

INSERT INTO MANAGERS VALUES('2003','Agastya','Khan','430000','0','Ammature','Bachelors');

INSERT INTO MANAGERS VALUES('2004','Ankur','Kataria','540000','3','Intermediate','Masters');

INSERT INTO MANAGERS VALUES('2005','Aamir','Kumar','650000','1','Ammature','Bachelors');

INSERT INTO MANAGERS VALUES('2006','Ajay','Ketan','760000','11','High','Masters');

INSERT INTO MANAGERS VALUES('2007','Amit','Kartik','870000','7','High','Masters');

INSERT INTO MANAGERS VALUES('2008','Anmol','Kanishk','980000','1','Ammature','Bachelors');

 CREATE VIEW manager AS

 SELECT ID,Name,ANNSAL

 FROM MANAGERS;

SELECT \* FROM manager;

CREATE VIEW engineers AS

SELECT emp\_id,f\_name,l\_name,salary,dept as d\_name FROM Employee where job\_type='engineer';

SELECT \* FROM engineers;

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

-- add d\_name attribute as ‘department’.

CREATE VIEW manager AS

SELECT emp\_id as ID,f\_name as name,salary\*12 as ANNSAL FROM Employee where job\_type='manager';

SELECT \* FROM manager;

-- 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.

ALTER VIEW manager AS CONCAT('(',f\_name,' ',l\_name,')') as name,

dept as department FROM Employee where job\_type='manager';

CREATE VIEW dept\_wise AS SELECT dept as name, min(salary) as minsalary,max(salary) as maxsalary,avg(salary)

as avgsalary FROM Employee GROUP by dept;

SELECT \* FROM dept\_wise;

-- 5. Create a view “emp\_location” with attribute name and location having information about the

-- employees f\_name and their department’s location.

CREATE VIEW emp\_location AS SELECT a.f\_name,a.l\_name,b.d\_loc FROM Employee a INNER JOIN Department b on a.dept=b.d\_name;

SELECT \* FROM emp\_location;

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

ALTER VIEW emp\_location AS SELECT a.f\_name,a.job\_type,b.d\_loc FROM Employee a INNER JOIN Department b on a.dept=b.d\_name

group by job\_type ASC;

-- 7.Create a view ‘emp5’ with f\_name as name and salary as ‘sal’ from the employee table.

ALTER VIEW emp\_location ADD COLUMN job\_type as job FROM Employee GROUP BY job\_type ASC:

CREATE VIEW emp5 AS SELECT f\_name as name,salary as sal FROM Employee;

-- 9. Show the values from the emp5 view.

SELECT \* FROM emp5;

-- 10. Find the salary of emma.

SELECT sal from emp5 where name='emma';

-- 11. Update emp5 view, increase the salary of emma, and make it 77000.

select salary from employee where f\_name='emma';

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

UPDATE emp5 SET sal=77000 where name='emma';

DESC emp5;

-- 13. Check if emma’s salary has been updated in the parent employee table.

select salary from employee where f\_name='emma';

-- 14.Update the employee table, increase the salary of emma, and make it 177000.

UPDATE Employee SET salary=177000 where f\_name='emma';

-- 15. Check if the change is reflected in the emp5 view.

SELECT sal from emp5 where name='emma';

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

UPDATE emp\_location SET job\_type='COO' WHERE f\_name='saul';

-- 17. Create a table emp8 with attribute id and name.

CREATE TABLE emp8(

ID INT,

name VARCHAR(50));

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

CREATE SYNONYM emp08 for emp8;

-- 19. Describe emp8 and emp08.

DESC emp8;

DESC emp08;

-- 20. Insert a tuple into emp8.

INSERT INTO emp8 VALUES(1,'Rohan');

INSERT INTO emp8 VALUES(1,'Rahul');

INSERT INTO emp8 VALUES(1,'Parul');

-- 21. Display all tuples from emp08.

SELECT \* FROM emp08;

-- 22. Insert a tuple into emp08.

INSERT INTO emp08 VALUES(2,'Anshu');

-- 23. Display all tuples from emp8.

SELECT \* FROM emp8;

-- 24. Add a column dept to emp8 table.

ALTER TABLE emp8 ADD dept VARCHAR(50);

-- 25. Describe emp08.

DESC emp08;

-- 26. Delete all tuples from emp08.

DELETE FROM emp08;

-- 27. Rename emp8 to employee8.

ALTER TABLE emp8 RENAME TO employee8;

-- 28. Describe emp008.

DESC emp008;

-- 29. Drop emp008.

DROP emp008;

-- 30. Create an index on the attribute id of emp table.

CREATE INDEX iforemp8 ON emp8(ID);

-- 31. Drop the index created in question no. 30.

DROP INDEX iforemp8;

OUTPUTS:-



