KALINGA INSTITUTE OF INDUSTRIAL TECHNOLOGY (KIIT)

Deemed to be University U/S 3 of UGC Act, 1956

DBMS LAB ASSIG 9

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2005025_Hitu raj


```sql
-- 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),
```

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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’.
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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.
```

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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;
```

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-- 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:-

```
1 SELECT * FROM engineer LIMIT 100;
```

Input To Search Data | Free | 1 | Cost: 12ms | 1 | Total 8

	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)
1	2001	Ashish	Kapoor	200000	Robotics	2	Intermediate	Bachelors
2	2002	Abhinav	Kaif	320000	Mechatronics	5	High	Masters
3	2003	Agastya	Khan	430000	Civil	0	Ammature	Bachelors
4	2004	Ankur	Kataria	540000	Material_Science	3	Intermediate	Masters
5	2005	Aamir	Kumar	650000	Aeronautics	1	Ammature	Bachelors
6	2006	Ajay	Ketan	760000	Mechanical	11	High	Masters
7	2007	Amit	Kartik	870000	Production	7	High	Masters
8	2008	Anmol	Kanishk	980000	Naval_fluid	1	Ammature	Bachelors

assig9.sql | managers | assig3.sql | assig8.sql

```
1 SELECT * FROM managers LIMIT 100;
```

Input To Search Data | Free | 1 | Cost: 3ms | 1 | Total 8

	ID varchar(30)	Name varchar(30)	L_name varchar(30)	ANNSAL varchar(30)	Experience varchar(30)	Proficiency varchar(30)	Highest_Education varchar(30)
1	2001	Ashish	Kapoor	200000	2	Intermediate	Bachelors
2	2002	Abhinav	Kaif	320000	5	High	Masters
3	2003	Agastya	Khan	430000	0	Ammature	Bachelors
4	2004	Ankur	Kataria	540000	3	Intermediate	Masters
5	2005	Aamir	Kumar	650000	1	Ammature	Bachelors
6	2006	Ajay	Ketan	760000	11	High	Masters
7	2007	Amit	Kartik	870000	7	High	Masters
8	2008	Anmol	Kanishk	980000	1	Ammature	Bachelors