MCKV

Laboratory Assignments

Session: 2022-23 MCKVIE/CSE(DS)/PC-CS692

<u> Assignment-6</u>

[Database Modification]

Create two table emp_new and dept_new as the same structure and data as of emp and dept table.
 create table emp_new as select * from emp;
 create table dept_new as select * from dept;

Table created.

Table created.

Modify dept_new table so that deptno will be the PRIMARY key.
 alter table dept_new modify deptno primary key;

Table altered.

3. Add a column named, 'Grade' (which holds grade of the employees) with CHAR(1) to the existing emp_new table.

alter table emp_new add Grade varchar(1);

Table altered.

4. Modyfy emp_new table to add a constraint 'emp_noPri' as PRIMARY key on empno attribute. alter table emp_new add constraint emp_noPri PRIMARY key(empno);

Table altered.

Add constraints REFERENCES to deptno of emp_new table referring deptno of dept_new table.
 ALTER TABLE emp_new ADD CONSTRAINT emp_dept_fk FOREIGN KEY (deptno) REFERENCES dept_new(deptno);

Table altered.

6. Modify the emp_new table so that we can't store the salary of the employee which is less than 2500. alter table emp_new add check(sal>750);

Table altered.

7. Modify the sal column of emp_new table to NOT NULL and increase its size to 10.

ALTER TABLE emp_new MODIFY sal NUMBER(10,2) NOT NULL;

Table altered.

8. Modify the ename column of emp_new table to increase its width to VARCHAR(35).

ALTER TABLE emp new MODIFY ename VARCHAR2(35);

Table altered.

9. Drop the PRIMARY key constraint from emp_new table.

ALTER TABLE emp_new DROP primary key;

Table altered.

10. Display all column name and constraint name of emp_new table.

SELECT COLUMN_NAME, CONSTRAINT_NAME FROM USER_CONS_COLUMNS WHERE TABLE_NAME = 'EMP_NEW';



- 11. a) Drop FOREIGN key constraint from emp_new table.
 - b) Disable the primary key constraint of dept_new table.
 - c) Enable the primary key constraint of dept_new table.

ALTER TABLE emp_new drop CONSTRAINTS emp_dept_fk;

ALTER table dept_new disable primary key;

ALTER table dept_new enable primary key;

Table altered.

Table altered.

Table altered.

12. Drop the primary key constraint of dept_new table so that it will also dropped the foreign key constraint on emp_new_deptno.

ALTER TABLE dept_new DROP PRIMARY key cascade;

Table altered.

13. Create table emp_new1 and dept_new1 from emp and dept respectively (also consider that there is a referential integrity between the tables using deptno attribute).

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CREATE TABLE emp_new1 AS SELECT * FROM emp;

CREATE TABLE dept_new1 AS SELECT * FROM dept;

alter table dept_new1 modify deptno primary key;

ALTER TABLE emp_new1 ADD CONSTRAINT emp_dept_fk1 FOREIGN KEY (deptno) REFERENCES dept_new1(deptno);
```

Table created.

Table created.

Table altered.

Table altered.

14. Now try to drop the dept_new1 table and give a comment on your output.

drop table dept_new1;

```
drop table dept_new1
*
ERROR at line 1:
ORA-02449: unique/primary keys in table referenced by foreign keys
```

15. Add the comment 'Employee Information of XYZ Company' on emp table.

COMMENT ON TABLE emp IS 'Employee Information of XYZ Company';

Comment created.

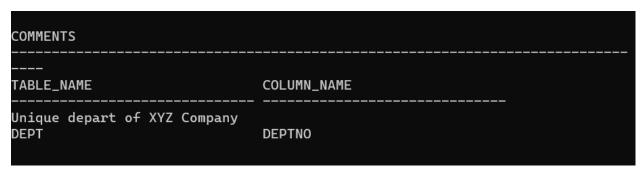
16. Add the comment 'Unique depart of XYZ Company' to deptno column of dept table.

COMMENT ON COLUMN dept.deptno IS 'Unique depart of XYZ Company';

Comment created.

17. How to show the comments of a particular column of a table?

SELECT COMMENTS, TABLE_NAME, COLUMN_NAME FROM USER_COL_COMMENTS WHERE TABLE_NAME = 'DEPT' AND COLUMN_NAME = 'DEPTNO';



18. How to show the comments on a particular a table? select comments, table name from user tab comments where table name like 'EMP';

COMMENTS
TABLE_NAME
Employee Information of XYZ Company EMP

19. Remove the comment on emp table.

COMMENT ON TABLE emp IS ";



20. Change the name of the emp table as emp_change table.

RENAME emp to emp_change;

Table renamed.

21. Drop the emp_new1 table so that the table structure will remain there in the database.

truncate table emp_new1;

Table truncated.

22. Drop the dept_new1 table permanently so the table structure wills no longer present in the database.

DROP table dept_new1 CASCADE CONSTRAINTS;

Table dropped.

23. Drop the Gade column from emp_new table.

alter table emp_new drop column grade;

Table altered.

24. Rename the comm. column of emp_new table to commission.

ALTER TABLE emp_new RENAME column comm TO commission;

Table altered.

25. Make the commission. column of emp_new table as unused.

ALTER TABLE emp_new SET unused column commission;

Table altered.

26. How can we display the marked unsued columns of a emp_new table.

SELECT column_name FROM user_unused_col_tabs WHERE table_name = 'EMP_NEW';

TABLE_NAME COUNT

EMP NEW

27. Drop the unused columns of emp_new table.

ALTER TABLE emp_new DROP UNUSED COLUMNS;

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Table altered.

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