

INDEX TOPIC :-

→ create index job_index

on emp(job);

sol : index created.

→ desc USER_INDEXES;

Sol : Index JOB_INDEX created.

Name	Null?	Type
-----	-----	-----
INDEX_NAME	NOT NULL	VARCHAR2(30)
INDEX_TYPE		VARCHAR2(27)
TABLE_OWNER	NOT NULL	VARCHAR2(30)
TABLE_NAME	NOT NULL	VARCHAR2(30)
TABLE_TYPE		VARCHAR2(11)
UNIQUENESS		VARCHAR2(9)
COMPRESSION		VARCHAR2(8)
PREFIX_LENGTH	NUMBER	

→ SELECT INDEX_NAME, TABLE_NAME
FROM user_indexes;
Sol :

*****Index Name *****	*****Table name*****
SYS_C007093	STUDENT_MASTER
SYS_C007098	STAFF_MASTER
JOB_INDEX	EMP
SYS_C007088	DESIGNATION_MASTER
SYS_C007089	DESIGNATION_MASTER
SYS_C007090	DEPARTMENT_MASTER
SYS_C007091	DEPARTMENT_MASTER
SYS_C007103	BOOK_MASTER

→ SELECT ename
FROM emp
WHERE job='MGR';
SOL :- *****ENAME *****

blake

clark

jones

→ SELECT ename FROM emp WHERE length(ename)>2;
 SOL :- NAMES:
 SMITH,ALLEN,WARD,JONES,MARTIN,BLAKE,CLARK,SCOTT,KING,TURNER,ADAMS,JAMES,FORD,
 MILLER
 → CREATE UNIQUE INDEX uniind ON emp(ename);
 SOL : INDEX CREATED.

.....

SEQUENCE :-

→ CREATE SEQUENCE idseq;
 SOL : Sequence created.
 → SELECT idseq.nextval FROM dual;

SOL : 1

→ SELECT idseq.nextval FROM dual;
 SOL : 2
 → SELECT idseq.nextval FROM dual;
 SOL : 3

SUB QUERY :-

1) SELECT design_code
 FROM designation_master
 WHERE design_name='Professor';

SOL : 102

2) SELECT staff_name
 FROM staff_master
 WHERE design_code= (SELECT design_code FROM designation_master
 WHERE design_name='Professor');

SOL : STAFF_NAME

Arvind
 Mohan
 Anil
 Raviraj
 Rahul
 Shyam

3) CREATE TABLE emp_copy31 AS SELECT * FROM emp;
 SOL : Table created.

4) SELECT ename FROM emp;

SOL : *****NAMES *****

ALLEN WARD JONES MARTIN BLAKE CLARK
 SCOTT KING TURNER ADAMS JAMES FORD MILLER

```
(SELECT deptno FROM emp GROUP BY deptno HAVING AVG(sal)>2500);
```

Sol : *****ENAME*****DEPTNO***

SMITH	20
ALLEN	30
WARD	30
JONES	20
MARTIN	30
BLAKE	30
SCOTT	20
TURNER	30
ADAMS	20
JAMES	30
FORD	20

15) SELECT ename,empno FROM emp CONNECT BY empno=mgr START WITH ename='blake';

Sol : ENAME EMPNO
 ----- -----
 blake 7698

16) SELECT ename,sal,job

FROM emp

WHERE sal=(SELECT avg(sal) FROM emp group by job);

Sol : "single-row subquery returns more than one row"

17) SELECT ename,empno FROM emp CONNECT BY prior empno=mgr

START WITH ename='blake';

Sol : ENAME EMPNO
 ----- -----
 blake 7698
 allen 7499
 ward 7521
 martin 7654

SYNONYM :-

1) SELECT ename FROM emp;

SOL : ***NAMES***

ALLEN
WARD
JONES
MARTIN
BLAKE
CLARK
SCOTT

2) SELECT ename FROM emp WHERE deptno=10;

SOL : ENAME

```
-----  
CLERK  
MILLER  
KING
```

3) CREATE SYNONYM emp FOR Emp;

Sol : synonym created.

4) DROP SYNONYM emp;

Sol : SYNONYM DROPPED.

5) CREATE PUBLIC SYNONYM test FOR emp;

SOL : SYNONYM CREATDED

6) DROP PUBLIC SYNONYM TEST

SOL :PUBLIC SYNONYM DROPPED

TABLE1 :

1) CREATE TABLE courses(courseid NUMBER PRIMARY KEY,name VARCHAR2(20));

SOL : TABLE CREATED

2) DROP TABLE courses;

SOL : Table COURSES dropped.

3) CREATE TABLE courses(courseid NUMBER,name VARCHAR2(20),

CONSTRAINT cid_pk PRIMARY KEY(courseid));

SOL : Table created.

4) desc courses;

SOL :

Name	Null?	Type
-----	-----	-----
COURSEID	NOT NULL	NUMBER
NAME		VARCHAR2(20)

5) ALTER TABLE courses DROP CONSTRAINT cid_pk;

SOL : Table COURSES altered.

6) desc courses;

SOL :

Name	Null?	Type
-----	-----	-----
COURSEID		NUMBER
NAME		VARCHAR2(20)

7) TRUNCATE TABLE courses;
SOL : Table COURSES truncated.

8) ALTER TABLE courses ADD CONSTRAINT cid_pk PRIMARY KEY(courseid);
SOL : Table COURSES altered.

9) DESC EMP;
SOL : Name Null? Type
 ----- ----- -----
 EMPNO NOT NULL NUMBER(4)
 ENAME VARCHAR2(10)
 JOB VARCHAR2(9)
 MGR NUMBER(4)
 HIREDATE DATE
 SAL NUMBER(7,2)
 COMM NUMBER(7,2)
 DEPTNO NUMBER(2)

10) alter table emp rename to emp_22;
SOL : TABLE ALTERED

11) desc emp
SOL : ORA-04043: object emp does not exist

12) desc emp_22;
SOL: Name Null? Type
 ----- ----- -----
 EMPNO NOT NULL NUMBER(4)
 ENAME VARCHAR2(10)
 JOB VARCHAR2(9)
 MGR NUMBER(4)
 HIREDATE DATE
 SAL NUMBER(7,2)
 COMM NUMBER(7,2)
 DEPTNO NUMBER(2)

13) alter table emp rename column id to empno;
SOL : 00942. 00000 - "table or view does not exist"

14) ALTER TABLE EMP_22 SET UNUSED COLUMN sal;
SOL : Table EMP_22 altered.

15) desc emp_22;

SOL :

Name	Null?	Type
-----	-----	-----
EMPNO	NOT NULL	NUMBER(4)
ENAME		VARCHAR2(10)
JOB		VARCHAR2(9)
MGR		NUMBER(4)
HIREDATE		DATE
COMM		NUMBER(7,2)
DEPTNO		NUMBER(2)

VIEWS TOPIC :-

➔ SQL> select ename FROM employee WHERE deptno=20;

SOL :

ENAME

jones

scott

➔ SQL> CREATE VIEW viewdemo1 AS SELECT ename FROM employee WHERE deptno=10;

View created.

➔ SQL> SELECT * FROM viewdemo1;

ENAME

king

blake

clark

➔ SQL> CREATE VIEW viewdemo1 AS SELECT ename FROM employee WHERE deptno=20;

CREATE VIEW viewdemo

ERROR at line 1:

ORA-00955: name is already used by an existing object

➔ CREATE OR REPLACE VIEW viewdemo1 AS SELECT ename FROM employee WHERE deptno=20;

View created.

➔ CREATE VIEW viewdemo2 AS SELECT * FROM dept_details;

View created.

➔ SELECT * FROM dept_details;

DEPTNO	DNAME	LOC
-----	-----	-----
1	training	chennai
4	admin	pune
6	admin	pune
8	admin	pune

➔ SELECT * FROM viewdemo2;

DEPTNO	DNAME	LOC
-----	-----	-----
1	training	chennai
4	admin	pune
6	admin	pune
8	admin	pune
2000	admin	pune
2005	admin	pune

➔ INSERT INTO viewdemo2 VALUES(10,'dd','f');

1 row created.

➔ SELECT * FROM viewdemo2;

DEPTNO	DNAME	LOC
-----	-----	-----
1	training	chennai
4	admin	pune
6	admin	pune
8	admin	pune
2000	admin	pune

➔ SELECT * FROM dept_details;

DEPTNO	DNAME	LOC
-----	-----	-----
1	training	chennai
4	admin	pune
6	admin	pune
8	admin	pune
2000	admin	pune
2005	admin	pune