**ASSIGNMENT 7**

**1.Create a view D\_10EMP containing details of employees in department 10.**

CREATE VIEW D\_10EMP (Emp\_no, Name, Salary, Dept\_no)

AS

SELECT EMPNO, ENAME, SAL, DEPTNO FROM EMP WHERE DEPTNO = 10;

**2. Create a view Dept\_Summary containing Dname, MINSal, MAXSal, AVGSal.**

CREATE VIEW Dept\_Summary (Dname, MINSAL, MAXSAL, AVGSAL)

AS

SELECT D.DNAME, MIN(E.SAL) AS MINSAL, MAX(E.SAL) AS MAXSAL, AVG(E.SAL) AS AVGSAL

FROM emp E

JOIN dept D ON E.DEPTNO = D.DEPTNO

GROUP BY D.DNAME;

**3. Create a view Emp\_Data which would validate entry of any INSERT/ UPDATE command so that Sal figure would be between 10000 to 20000 and MGR would have to be a valid Empno, and Deptno must exists on Dept table.**

CREATE VIEW Emp\_Data

AS

SELECT EMPNO, ENAME, JOB, MGR, SAL, DEPTNO

FROM emp

WHERE SAL BETWEEN 10000 AND 20000

AND MGR IN (SELECT DISTINCT EMPNO FROM emp)

AND DEPTNO IN (SELECT DEPTNO FROM dept)

WITH CHECK OPTION;

**4. Create a view which restricts data access to a valid employee’s own details on the Emp table and access time to office hours (09-17 and MON- SAT).**

CREATE or REPLACE view Emp\_details

AS

SELECT EMPNO, ENAME, JOB, SAL

FROM emp

where Ename='&Employeename'

and TO\_CHAR(SYSDATE,'HH24') between 9 and 17

and TO\_CHAR(SYSDATE,'D') between 2 and 6

with CHECK option;

**5. Create a view EMPLOYEES from emp table which contains empno, ename, job, depy and validate the deptno. that must be in Dept table.**

CREATE VIEW EMPLOYEES (empno, ename, job, dept)

AS

SELECT EMPNO, ENAME, JOB, DEPTNO FROM emp

WHERE DEPTNO IN (SELECT DEPTNO FROM dept)

WITH CHECK OPTION;

**6. Create a READ only view EMP\_READ from emp table which contains job, minsal, maxsal.**

CREATE VIEW EMP\_READ(Job, minsal, maxsal)

AS

SELECT JOB, MIN(SAL), MAX(SAL)

FROM emp GROUP BY JOB

WITH READ ONLY;

7. CLIENT\_MASTER TABLE(done before)

**A. Create a view vw\_clent\_master using Client\_no,Name,Address1 and Bal\_due**

CREATE VIEW vw\_client\_master

(Client\_no, Name, Address1, Bal\_due)

AS

SELECT CLIENT\_NO, NAME, ADDRESS1, BALANCE\_DUE

FROM client\_master;

i)**Insert at least 3 records to vw\_client\_master**.

INSERT INTO vw\_client\_master VALUES('C007','new1','B/34',2200);

INSERT INTO vw\_client\_master VALUES('C008','Seema','v\_14',2900);

INSERT INTO vw\_client\_master VALUES('C009','Riya','I/4',4900);

**ii) Update a record to vw\_client\_master.**

Update vw\_client\_master set CLIENT\_NO='C009' where CLIENT\_NO='C008';

**iii. Delete a record from vw\_client\_master.**

Delete from vw\_client\_master where client\_no='C009';

**And check that the above operation if the base table is affected or not**

Select \* from client\_master;

**B. Create a view Vw\_sales\_det using Order\_no,Order\_date, Product\_no, Qty\_ordered, and order\_status for all order which have already marked as ‘Backorder’ .(Using the tables sales\_order,sales\_order\_details).**

CREATE OR REPLACE VIEW Vw\_sales\_det (Order\_no, Order\_date, Product\_no, Qty\_ordered, order\_status)

AS

SELECT S.ORDER\_NO, S.ORDER\_DATE, S1.PRODUCT\_NO, S1.QTY\_DISP AS Qty\_ordered, S.ORDER\_STATUS

FROM sales\_order S

JOIN sales\_order\_details S1 ON S.ORDER\_NO = S1.ORDER\_NO

WHERE S.ORDER\_STATUS = 'Backorder';

**i. Insert a record to vw\_sales\_det.**

INSERT INTO Vw\_sales\_det VALUE 2 (019009,’27-JAN-96’,’P07970’,5,’Backorder’);

ERROR: View or function ‘Vw\_sales\_det’ is not updatable because the modification affects multiple base tables.

**ii. Update the client\_no for a particular order\_no.**

Update Vw\_sales\_det set CLIENT\_NO='C006' where ORDER\_NO='019001';

ERROR: View or function ‘Vw\_sales\_det’ is not updatable because the modification affects multiple base tables

**iii. Delete a record.**

Delete from Vw\_sales\_det where ORDER\_NO=019001;

ERROR

**iv. Remove the views from database.**

DROP VIEW Vw\_sales\_det;