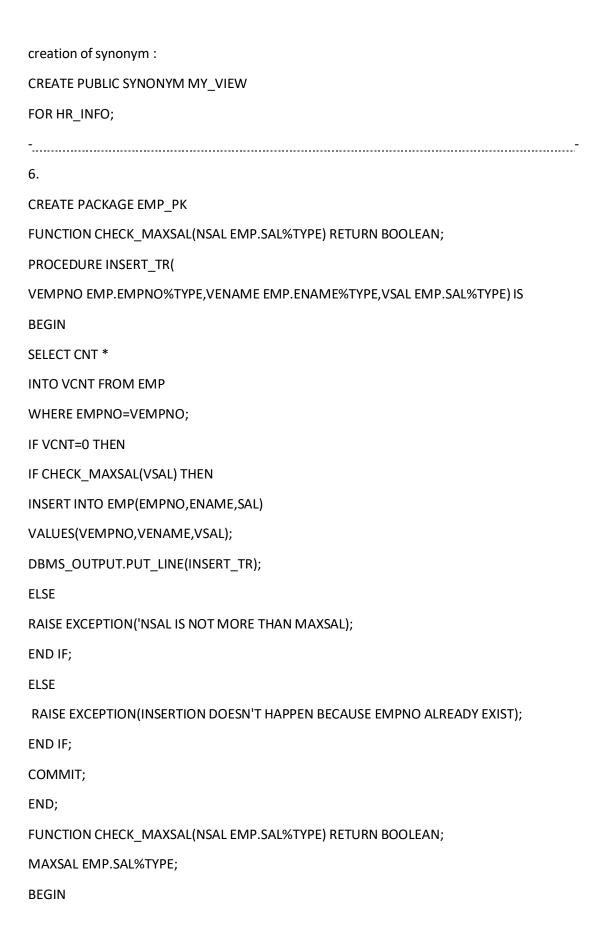
```
1.
a) creation and insertion of table DEPT 1102290:
CREATE TABLE DEPT_1102290(DEPTNO NUMBER(3) NOT NULL, DNAME VARCHAR(20) NOT NULL, LOC
VARCHAR(20) NOT NULL);
BEGIN
INSERT INTO DEPT 1102290(DEPTNO, DNAME, LOC)
VALUES(10, 'RESEARCH', 'HDC');
INSERT INTO DEPT_1102290(DEPTNO, DNAME, LOC)
VALUES(20, 'SALES', 'BDC');
INSERT INTO DEPT_1102290(DEPTNO, DNAME, LOC)
VALUES(30,'COMPUTERS','CDC');
END;
b) creation and insertion of table EMP_1102290:
CREATE TABLE EMP 1102290(EMPNO NUMBER(3) NOT NULL, ENAME VARCHAR(20), SAL NUMBER(5),
COMM NUMBER(5), DEPTNO NUMBER(3));
BEGIN
INSERT INTO EMP_1102290(EMPNO,ENAME,SAL,COMOM,DEPTNO)
VALUES(101, 'ANTHONY', 6000, NULL, 10);
INSERT INTO EMP_1102290(EMPNO,ENAME,SAL,COMOM,DEPTNO)
VALUES(102, 'JOHN', 7600, 1000, 10);
INSERT INTO EMP_1102290(EMPNO,ENAME,SAL,COMOM,DEPTNO)
VALUES(103, 'ANDERSON', 4500, NULL, 20);
INSERT INTO EMP 1102290(EMPNO, ENAME, SAL, COMOM, DEPTNO)
VALUES(104, KEVIN', 2300, 500, 30);
END;
-_____
2.
a) sequence for DEPTNO:
```

CREATE SEQUENCE DEPTNO_SEQ

MIN VALUE 10
MAX VALUE 30
START WITH 10
INCREAMENT BY 10
CACHE 0;
b) sequence for EMPNO :
CREATE SEQUENCE EMPNO_SEQ
MIN VALUE 101
MAX VALUE 104
START WITH 101
INCREAMENT BY 1
CACHE 0;
3.
SELECT ENAME FROM EMP_1102290
WHERE LOWER(ENAME) LIKE ('ANTHONY', 'JOHN')
(OR)
SELECT DEPTNO = 10
FROM EMP_1102290
WHERE LOWER(ENAME)
4.
creation of view :
CREATE VIEW MY_VIEW
AS
SELECT *
FROM EMP_1102290;
-
5.



```
SELECT MAX(SAL) INTO MAXSAL FROM EMP;
IF MAXSAL >= NSAL THEN
RETURN TRUE;
ELSE
RETURN FALSE;
END IF;
END;
PROCEDURE UPDATE_TR(
VEMPNO EMP.EMPNO%TYPE, VENAME EMP.ENAME%TYPE, VSAL EMP.SAL%TYPE) IS
BEGIN
SELECT CNT *
INTO VCNT FROM EMP
WHERE EMPNO=VEMPNO;
IF VCNT>0 THEN
IF CHECK MAXSAL(VSAL) THEN
UPDATE EMP SET ENAME=VENAME,SAL=VSAL
WHERE EMPNO=VEMPNO
DBMS_OUTPUT.PUT_LINE('UPDATE_TR');
ELSE
RAISE EXCEPTION('NSAL IS NOT MORE THAN MAXSAL);
END IF;
ELSE
RAISE EXCEPTION('EMPNO DOESN'T EXIST);
END IF;
COMMIT;
END;
PROCEDURE DELETE_TR(VEMPNO EMP.EMPNO%TYPE) IS
BEGIN
SELECT CNT *
```

```
INTO VCNT FROM EMP
WHERE EMPNO=VEMPNO;
IF VCNT>0 THEN
DELETE FROM EMP WHERE EMPNO=VEMPNO;
DBMS_OUTPUT.PUT_LINE('DELETE_TR');
ELSE
RAISE EXCEPTION('DELETION NOT APPLICABLE BECAUSE EMPNO DOESN'T EXIST');
END IF;
COMMIT;
END;
DECLARE
VDNAME EMP.DNAME%TYPE;
VENAME EMP.ENAME%TYPE;
BEGIN
SELECT DNAME, ENAME INTO VDNAME, VENAME
FROM EMP;
WHERE DNAME=VDNAME AND ENAME=VENAME;
DBMS_OUTPUT.PUT_LINE('RESOURCES' || DNAME);
DBMS_OUTPUT.PUT_LINE("ANTHONY JOHN" || ENAME);
DBMS_OUTPUT.PUT_LINE('SALES' || DNAME);
DBMS_OUTPUT.PUT_LINE('ANDERSON' || ENAME);
DBMS_OUTPUT.PUT_LINE('COMPUTERS' | | DNAME);
DBMS_OUTPUT.PUT_LINE('KEVIN' || ENAME);
END;
```