**Sheet-3**

1. **In table emp increase the salary by 10% for employees whose salary is below 3000.**

**update emp**

**set SAL=1.1\*SAL**

**where SAL<3000**

1. **Create table with name of emp2 creation command is (create table emp2 (id number, ename varchar2 (50), salary number) populate the emp2 table using a select statement from the emp table for the employees in department 20 .**

**create table emp2**

**as select EMPNO id,ENAME ename ,SAL salary from emp where DEPTNO=20**

**alter table emp2 modify ename varchar2(50)**

1. **Create the DEPARTMENT table based on the following table instance chart. Confirm that the table is created.**

**create table department (id number(7) default 1 ,name varchar(25) )**

**/**

|  |  |  |
| --- | --- | --- |
| **COLUMN NAME** | **ID** | **NAME** |
| **Default value** | **1** | **Not available** |
| **DATATYPE** | **Number** | **Varchar2** |
| **LENGTH** | **7** | **25** |

1. **Populate the DEPARTMENT table with data from dept table. Include only columns that you need.**

**insert into department select empno ,ename from emp**

**/**

1. **Add column location to table department.**

**alter table department add location varchar(20)**

1. **Truncate table department**

**truncate table department**

1. **Create table employee based on the structure of the EMP table. Include only the EMPNO, ENAME,sal and DEPTNO columns**

**Empno Primary key**

#### Ename unique

#### Deptno fk for table department.

**Create table employee**

**As select empno EMPNO, ename ENAME ,deptno DEPTNOfrom emp ;**

**alter table employee**

**modify ENAME unique**

**alter table employee**

**modify EMPNO primary key**

**alter table department**

**modify id primary key**

**/**

**alter table employee**

**modify DEPTNO references department(id)**

1. **Add a check constraint on column Salary (salary is in (1000, 1500, 2000 or 2500)). And test if it is work or not.**

**alter table employee**

**add salary number(10) check(salary in(1000,1500,2000,2500))**

1. **Drop the check constraint that has been created in step (e).**

**Alter table employee**

**Drop constraint SYS\_C006993**

**/**

1. **Create a view called EMP\_VU based on the employee number, employee name, and department number from the EMP table. Change the heading for the employee name to EMPLOYEE**

**create or replace view EMP\_VU( empno,employee,deptno)**

**as select empno,ename,deptno from emp**

**/**

1. **Modify the EMP\_VU view to display the employees in department 20. Note: the view can’t be used to manipulate the employees in departments other than 20.**

**create or replace view EMP\_VU( empno,employee ,deptno)**

**as select empno,ename,deptno from emp where deptno =20**

**with check option constraint check\_view**

**/**

1. **Create a sequence to be used with the primary key column of the DEPARTMENT table. The sequence should start at 60 and have a maximum value of 200. Have your sequence increment by ten numbers. Name the sequence DEPT\_ID\_SEQ**

**create sequence DEPT\_ID\_SEQ**

**increment by 10 start with 60 maxvalue 200**

**insert into department**

**(id ,name )**

**values( DEPT\_ID\_SEQ.nextval,'shaimaa'(**

**/**

**/**

1. **Create a non-unique index on the foreign key column (dept\_id) in the employee table.**

**create index sh**

**on employee(deptno)**

**/**