**LAB 4 Database Objects**

**1.** CREATE table Customer

(CustomerId Number(5),

Cust\_Name varchar2(20),

Address1 varchar2(30),

Address2 varchar2(30));

**2.** ALTER table customer MODIFY cust\_name varchar(30) NOT NULL;

ALTER table customer RENAME COLUMN cust\_name TO CustomerName ;

**3.a)** ALTER table customer ADD

(gender varchar2(1),age Number(3),PhoneNo number(10));

**3.b)**RENAME customer TO Cust\_Table;

**4**. insert into cust\_table values(1000,'Allen','#115 Chicago','#115 Chicago','M',25,7878776);

insert into cust\_table values(1001,'George','#116 France','#116 France','M',25,434524);

insert into cust\_table values(1002,'Becker','#114 New York','#114 New York','M',45,431525);

**5.** ALTER table cust\_table ADD CONSTRAINT CustId\_Prim PRIMARY KEY(customerid);

**6.** Some error message generated “UNIQUE CONSTRAINT (CUST\_ID PRIM) violated.

**7.** ALTER TABLE cust\_table DISABLE CONSTRAINT CustId\_Prim;

insert into cust\_table values(1002,'Becker','#114 New York','#114 New York','M',45,431525);

insert into cust\_table values(1003,'Nanapatekar','#115 India','#115 India','M',45,431525);

**8.** ALTER TABLE cust\_table ENABLE CONSTRAINT CustId\_Prim;

ERROR: cannot validate (TRG410.CUSTID\_PRIM) - primary key violated

**9.** ALTER TABLE cust\_table DROP CONSTRAINT custId\_prim;

insert into cust\_table values(1002,'Becker','#114 New York','#114 New York','M',45,431525,15000.50);

insert into cust\_table values(1003,'Nanapatekar','#115 India','#115 India','M',45,431525,20000.50);

**10.** TRUNCATE table cust\_table;

**11.** ALTER TABLE cust\_table ADD E\_mail varchar2(15);

**12.** ALTER TABLE cust\_table DROP COLUMN E\_mail;

**13.** ALTER TABLE cust\_table ADD EmailId varchar2(15);

**14.** ALTER TABLE cust\_table SET UNUSED COLUMN EMAILID;

**15.** ALTER TABLE cust\_table DROP UNUSED COLUMNS;

**16**. CREATE table Suppliers(SuppId,SName,Addr1,Addr2,Contactno)

AS

SELECT CustomerID,CustomerName,Address1,Address2,Phoneno

FROM

cust\_table;

**17a).** DROP table SUPPLIERS;

**17b).**CREATE table CustomerMaster

(CustomerId Number(5) CONSTRAINT CustID\_PK PRIMARY KEY,

CustomerName varchar2(20) NOT NULL,

Address1 varchar2(30) NOT NULL,

Address2 varchar2(30),

Gender varchar2(1),

Age Number(3),

PhoneNo Number(10));

**25**. CREATE table customerdetails

AS

SELECT \* from

CUSTOMERMASTER;

**26.** RENAME customerdetails TO BackUpTable;

**30.**

SELECT \* from

(

SELECT d.dept\_name,MAX(s.staff\_sal) AS MAX

FROM department\_master d, staff\_master s

WHERE d.dept\_code=s.dept\_code

GROUP BY d.dept\_name

ORDER BY MAX desc

)

WHERE rownum=1;

**31.** SELECT staff\_name,staff\_sal,dept\_code

FROM staff\_master s

WHERE (SELECT COUNT(s2.staff\_sal)

FROM staff\_master s2

WHERE s.dept\_code=s2.dept\_code AND

s2.staff\_sal>=s.staff\_sal)<3 AND

staff\_sal IS NOT NULL AND dept\_code IS NOT NULL

ORDER BY dept\_code,staff\_sal DESC;

**32.** CREATE SEQUENCE Seq\_Dept

START WITH 60

INCREMENT BY 10

MAXVALUE 200;

**33.** INSERT INTO department\_master VALUES(Seq\_Dept.nextval,'THERMODYNAMICS');

INSERT INTO department\_master VALUES(Seq\_Dept.nextval,’INFORMATION TECHNOLOGY’);

INSERT INTO department\_master VALUES(Seq\_Dept.nextval,'TELECOM');

**35.** DROP sequence seq\_dept;

**36**. CREATE UNIQUE INDEX no\_name ON department\_master(dept\_code,dept\_name);