

# APPLIED COMPONENTS

SQL

PRACTICAL NO-1

date:07-07-2022

ROLL\_NO : 403

Q.A

SQL> create table invent(ino number(10)unique,iname varchar2(10)not null,opstk number(10) default 0,mprice number(10,2),dos date);

Table created.

SQL> desc invent

Name	Null?	Type
-----	-----	-----
INO		NUMBER(10)
INAME	NOT NULL	VARCHAR2(10)
OPSTK		NUMBER(10)
MPRICE		NUMBER(10,2)
DOS		DATE

SQL> alter table invent add vname varchar2(10);

Table altered.

SQL> desc invent;

Name	Null?	Type
-----	-----	-----
INO		NUMBER(10)
INAME	NOT NULL	VARCHAR2(10)
OPSTK		NUMBER(10)
MPRICE		NUMBER(10,2)
DOS		DATE
VNAME		VARCHAR2(10)

SQL> alter table invent modify iname varchar2(25);

Table altered.

SQL> desc invent;

Name	Null?	Type
-----	-----	-----
INO		NUMBER(10)
INAME	NOT NULL	VARCHAR2(25)
OPSTK		NUMBER(10)
MPRICE		NUMBER(10,2)
DOS		DATE
VNAME		VARCHAR2(10)

SQL> insert into invent values(123,'nayan ',4000,100000,'12-feb-2021','nano');

1 row created.

SQL> insert into invent values(12,'shravan ',4,100,'15-jan-2020','joy');

1 row created.

SQL> select \* from invent;

INO	INAME	OPSTK	MPRICE	DOS	VNAME
-----	-----	-----	-----	-----	-----
123	nayan	4000	100000	12-FEB-21	nano

```
SQL> alter table invent drop unique(ino);
```

Table altered.

```
SQL> alter table invent add constraint pre_key primary key (ino);
```

Table altered.

```
SQL> desc invent
```

Name	Null?	Type
INO	NOT NULL	NUMBER(10)
INAME	NOT NULL	VARCHAR2(25)
OPSTK		NUMBER(10)
MPRICE		NUMBER(10,2)
DOS		DATE
VNAME		VARCHAR2(10)

Q.B

```
SQL> create table donation(dno number(10)primary key, dname varchar2(20),damt number(20),dt date
not null);
```

Table created.

```
SQL> desc donation
```

Name	Null?	Type
DNO	NOT NULL	NUMBER(10)
DNAME		VARCHAR2(20)
DAMT		NUMBER(20)
DT	NOT NULL	DATE

```
SQL> insert into donation values(01,'sahil',5,'10-oct-1990');
```

1 row created.

```
SQL> insert into donation values(02,'dipak',10,'11-oct-1990');
```

1 row created.

```
SQL> select * from donation;
```

DNO	DNAME	DAMT	DT
1	sahil	5	10-OCT-90
2	dipak	10	11-OCT-90

Q.C

```
SQL> create table hospital(pt_no number(10),pname varchar2(15),page number(3),doc_name
varchar(15),t_o_p varchar2(15),charges number(11,5));
```

Table created.

```
SQL> insert into hospital values(203,'barry',76,'dr.ravindram','ENT',54.23352354);
```

1 row created.

```
SQL> select * from hospital;
```

PT_NO	PNAME	PAGE	DOC_NAME	T_O_P	CHARGES
203	barry	76	dr.ravindram	ENT	54.23352

SQL> insert into hospital values(566,'joy',95,'dr.satyajit','coma',6125.233);

1 row created.

SQL> select \* from hospital;

PT_NO	PNAME	PAGE	DOC_NAME	T_O_P	CHARGES
203	barry	76	dr.ravindram	ENT	54.23352
566	joy	95	dr.satyajit	coma	6125.233

Q.D

SQL> create table course(cr\_id number(3) primary key,cname varchar2(15),sem number(2) not null,year date);

Table created.

SQL> insert into course values(001,'arpita',5,'15-mar-2022');

1 row created.

SQL> insert into course values(002,'anjali',5,'15-mar-2022');

1 row created.

SQL> select \* from course;

CR_ID	CNAME	SEM	YEAR
1	arpita	5	15-MAR-22
2	anjali	5	15-MAR-22

Q.E

SQL> create table emp(eid char(5),ename varchar2(15),edept\_no number(3),esalary number(8,2));

Table created.

SQL> desc emp;

Name	Null?	Type
EID		CHAR(5)
ENAME		VARCHAR2(15)
EDEPT_NO		NUMBER(3)
ESALARY		NUMBER(8,2)

QL> alter table emp add edesig varchar2(20);

Table altered.

SQL> alter table emp add clerk varchar2(20);

Table altered.

SQL> alter table emp add constraint clerk check(esalary<=25000);

Table altered.

SQL> desc emp;

Name	Null?	Type
EID		CHAR(5)
ENAME		VARCHAR2(15)
EDEPT_NO		NUMBER(3)
ESALARY		NUMBER(8,2)
EDESIG		VARCHAR2(20)
CLERK		VARCHAR2(20)

```

-----
EID                                CHAR(5)
ENAME                             VARCHAR2(15)
EDEPT_NO                          NUMBER(3)
ESALARY                           NUMBER(8,2)
EDESIG                            VARCHAR2(20)
CLERK                             VARCHAR2(20)

```

Q.F

```

SQL> create table account(acc_no number(20)primary key,adhar_no varchar2(10) unique, type
varchar2(10) default 'saving',balance number(7,2));

```

Table created.

```

SQL> desc account;

```

Name	Null?	Type
ACC_NO	NOT NULL	NUMBER(20)
ADHAR_NO		VARCHAR2(10)
TYPE		VARCHAR2(10)
BALANCE		NUMBER(7,2)

```

SQL> insert into account values(123456,'845385','dont know',464.4654);

```

1 row created.

```

SQL> insert into account values(128975,'876225','',48785.456485);

```

1 row created.

```

SQL> select * from account;

```

ACC_NO	ADHAR_NO	TYPE	BALANCE
123456	845385	dont know	464.47
128975	876225		48785.46