

## APPLIED COMPONENTS

SQL

PRACTICAL NO-2

date:

ROLL\_NO : 403

Q1)i)

```
SQL> create table book(bid number(5),bname varchar2(20));
```

Table created.

ii)

```
SQL> insert into book values(&bid,&bname');
```

Enter value for bid: 12

Enter value for bname: big bang

```
old 1: insert into book values(&bid,&bname')
```

```
new 1: insert into book values(12,'big bang')
```

1 row created.

```
SQL> insert into book values(&bid,&bname');
```

Enter value for bid: 13

Enter value for bname: atomic habits

```
old 1: insert into book values(&bid,&bname')
```

```
new 1: insert into book values(13,'atomic habits')
```

1 row created.

iii)

```
SQL> alter table book add constraint prikey primary key(bid);
```

Table altered.

iv)

```
SQL> alter table book modify bname not null;
```

Table altered.

v)

```
SQL> alter table book add bpub varchar2(20);
```

Table altered.

vi)

```
SQL> alter table book modify bname varchar2(40);
```

Table altered.

vii)

```
SQL> alter table book add bprice number(5,2);
```

Table altered.

---

viii)

```
SQL> alter table book add issn number(10);
```

Table altered.

```
SQL> alter table book add constraint uni_qw unique (issn);
```

Table altered.

ix)

```
SQL> insert into book values(&bid,&bname','&bpub','&bprice,&issn);
Enter value for bid: 1
Enter value for bname: the theory of everythng
Enter value for bpub: usa media
Enter value for bprice: 500
Enter value for issn: 2334
old 1: insert into book values(&bid,&bname','&bpub','&bprice,&issn)
new 1: insert into book values(1,'the theory of everythng','usa media',500,2334)
```

1 row created.

```
SQL> /
Enter value for bid: 2
Enter value for bname: binary sys
Enter value for bpub: media
Enter value for bprice: 600
Enter value for issn: 8683
old 1: insert into book values(&bid,&bname','&bpub','&bprice,&issn)
new 1: insert into book values(2,'binary sys','media',600,8683)
```

1 row created.

```
SQL> /
Enter value for bid: 3
Enter value for bname: a brif answer to the big q
Enter value for bpub: england pub
Enter value for bprice: 130
Enter value for issn: 8799
old 1: insert into book values(&bid,&bname','&bpub','&bprice,&issn)
new 1: insert into book values(3,'a brif answer to the big q','england pub',130,8799)
```

1 row created.

```
SQL> select * from book;
```

BID	BNAME	BPRICE	ISSN	BPUB
12	big bang			
13	atomic habits			
1	the theory of everythng	500	2334	usa media
2	binary sys	600	8683	media
3	a brif answer to the big q	130	8799	england pub

Q2)

i)

```
SQL> create table emp1(eno number(5) primary key,ename varchar2(10) not null, edoj date
check(edoj<='17-aug-2022'),esal number(10,2) check(esal>=0),edesig varchar2(20) default 'soft
prog' check(edesig in ('softprog','sr prog','accountant','clerk','manager')),edept varchar2(20)
default 'programmer' check(edept in ('programmer','hr','marketing','finance')));
```

Table created.

SQL> desc emp1

Name	Null?	Type
ENO	NOT NULL	NUMBER(5)
ENAME	NOT NULL	VARCHAR2(10)
EDOJ		DATE
ESAL		NUMBER(10,2)
EDESIG		VARCHAR2(20)
EDEPT		VARCHAR2(20)

ii)

SQL> insert into emp1 values(&eno,&ename,&edoj,&esal,&edesig,&edept');

Enter value for eno: 0001

Enter value for ename: sahil

Enter value for edoj: 14-jan-2002

Enter value for esal: 150

Enter value for edesig: sr prog

Enter value for edept: programmer

old 1: insert into emp1 values(&eno,&ename,&edoj,&esal,&edesig,&edept')

new 1: insert into emp1 values(0001,'sahil','14-jan-2002',150,'sr prog','programmer')

1 row created.

SQL> /

Enter value for eno: 0002

Enter value for ename: arpita

Enter value for edoj: 23-feb-2002

Enter value for esal: 150

Enter value for edesig: softprog

Enter value for edept: programmer

old 1: insert into emp1 values(&eno,&ename,&edoj,&esal,&edesig,&edept')

new 1: insert into emp1 values(0002,'arpita','23-feb-2002',150,'softprog','programmer')

1 row created.

SQL> /

Enter value for eno: 0003

Enter value for ename: anjali

Enter value for edoj: 20-dec-2002

Enter value for esal: 100.23

Enter value for edesig: sr prog

Enter value for edept: programmer

old 1: insert into emp1 values(&eno,&ename,&edoj,&esal,&edesig,&edept')

new 1: insert into emp1 values(0003,'anjali','20-dec-2002',100.23,'sr prog','programmer')

1 row created.

SQL> /

Enter value for eno: 0004

Enter value for ename: shalu

Enter value for edoj: 10-sep-2001

Enter value for esal: 50.10

Enter value for edesig: accountant

Enter value for edept: marketing

old 1: insert into emp1 values(&eno,&ename,&edoj,&esal,&edesig,&edept')

new 1: insert into emp1 values(0004,'shalu','10-sep-2001',50.10,'accountant','marketing')

1 row created.

SQL> /

Enter value for eno: 0005

Enter value for ename: maya

```
Enter value for edoj: 19-nov-2002
Enter value for esal: 150.30
Enter value for edesig: accountant
Enter value for edept: finance
old 1: insert into emp1 values(&eno,&ename,&edoj,&esal,&edesig,&edept')
new 1: insert into emp1 values(0005,'maya','19-nov-2002',150.30,'accountant','finance')
```

1 row created.

```
SQL> /
Enter value for eno: 0006
Enter value for ename: vishal
Enter value for edoj: 01-jun-2002
Enter value for esal: 150
Enter value for edesig: manager
Enter value for edept: hr
old 1: insert into emp1 values(&eno,&ename,&edoj,&esal,&edesig,&edept')
new 1: insert into emp1 values(0006,'vishal','01-jun-2002',150,'manager','hr')
```

1 row created.

iii)

```
SQL> alter table emp1 add bonus_no number(10,2);
```

Table altered.

```
SQL> update emp1 set bonus_no=esal*0.05;
```

6 rows updated.

```
SQL> update emp1 set bonus_no=esal+1000 where edept = 'programmer';
```

3 rows updated.