DBMS

ASSIGNMENT NO:-1

SQL> connect		
Enter user-name: syste	m	
Enter password:		
Connected.		
Q.1)		
1)		
SQL> create table custo	omer(custno number(4),cu	stname char(15),city varchar(15),state varchar(15));
Table created.		
SQL> desc customer;		
Name	Null? Type	
CUSTNO	NUMBER(4)	·
CUSTNAME	CHAR(15)	
CITY	VARCHAR2(15)	
STATE	VARCHAR2(15)	
SQL> insert into custon	ner values (& custno, '& cust	name','&city','&state');
Enter value for custno:	1	
Enter value for custnar	ne: aaa	
Enter value for city: mu	ımbai	

```
Enter value for state: maharashtra
old 1: insert into customer values(&custno, '&custname', '&city', '&state')
new 1: insert into customer values(1,'aaa','mumbai','maharashtra')
1 row created.
SQL>/
Enter value for custno: 2
Enter value for custname: bbb
Enter value for city: pune
Enter value for state: maharashtra
old 1: insert into customer values(&custno,'&custname','&city','&state')
new 1: insert into customer values(2,'bbb','pune','maharashtra')
1 row created.
SQL>/
Enter value for custno: 3
Enter value for custname: ccc
Enter value for city: jaipur
Enter value for state: rajasthan
old 1: insert into customer values(&custno,'&custname','&city','&state')
new 1: insert into customer values(3,'ccc','jaipur','rajasthan')
1 row created.
SQL>/
Enter value for custno: 4
Enter value for custname: ddd
```

```
Enter value for city: indore
Enter value for state: madhya pradesh
old 1: insert into customer values(&custno,'&custname','&city','&state')
new 1: insert into customer values(4,'ddd','indore','madhya pradesh')
1 row created.
SQL>/
Enter value for custno: 5
Enter value for custname: eee
Enter value for city: bhopal
Enter value for state: madhya pradesh
old 1: insert into customer values(&custno,'&custname','&city','&state')
new 1: insert into customer values(5,'eee','bhopal','madhya pradesh')
1 row created.
SQL>/
Enter value for custno: 6
Enter value for custname: fff
Enter value for city: surat
Enter value for state: gujarat
old 1: insert into customer values(&custno,'&custname','&city','&state')
new 1: insert into customer values(6,'fff','surat','gujarat')
1 row created.
SQL>/
Enter value for custno: 7
```

Enter value for custname: ggg

Enter value for city: baroda

Enter value for state: gujarat

old 1: insert into customer values(&custno,'&custname','&city','&state')

new 1: insert into customer values(7,'ggg','baroda','gujarat')

1 row created.

SQL>/

Enter value for custno: 8

Enter value for custname: hhh
Enter value for city: hydrabad

Enter value for state: telangana

old 1: insert into customer values(&custno,'&custname','&city','&state')

new 1: insert into customer values(8,'hhh','hydrabad','telangana')

1 row created.

SQL> desc customer;

Name Null? Type

CUSTNO NUMBER(4)

CUSTNAME CHAR(15)

CITY VARCHAR2(15)

STATE VARCHAR2(15)

SQL> select *from customer;

CUSTNO CUSTNAME CITY STATE

1 aaa	mumbai	maharashtra
2 bbb	pune	maharashtra
3 ссс	jaipur	rajasthan
4 ddd	indore	madhya pradesh
5 eee	bhopal	madhya pradesh
6 fff	surat	gujarat
7 ggg	baroda	gujarat
8 hhh	hyadraba	id telangana

8 rows selected.

Q.1)

1)

SQL> create table item(itemno number(4),itemname char (15),price number(15),qty number(15));

Table created.

SQL> desc item

SQL> insert into item values(&itemno,'&itemname',&price,&qty); Enter value for itemno: 1 Enter value for itemname: coffee Enter value for price: 200 Enter value for qty: 20 old 1: insert into item values(&itemno,'&itemname',&price,&qty) new 1: insert into item values(1,'coffee',200,20) 1 row created. SQL>/ Enter value for itemno: 2 Enter value for itemname: roti Enter value for price: 100 Enter value for qty: 30 old 1: insert into item values(&itemno,'&itemname',&price,&qty) new 1: insert into item values(2,'roti',100,30) 1 row created. SQL>/ Enter value for itemno: 3 Enter value for itemname: chapati Enter value for price: 70 Enter value for qty: 100 old 1: insert into item values(&itemno,'&itemname',&price,&qty) new 1: insert into item values(3,'chapati',70,100)

1 row created. SQL>/ Enter value for itemno: 4 Enter value for itemname: tea Enter value for price: 20 Enter value for qty: 70 old 1: insert into item values(&itemno,'&itemname',&price,&qty) new 1: insert into item values(4,'tea',20,70) 1 row created. SQL>/ Enter value for itemno: 5 Enter value for itemname: idli Enter value for price: 110 Enter value for qty: 50 old 1: insert into item values(&itemno, '&itemname', &price, &qty) new 1: insert into item values(5,'idli',110,50) 1 row created. SQL>/ Enter value for itemno: 6 Enter value for itemname: vada Enter value for price: 40 Enter value for qty: 60

ITEMNO NUMBER(4)	
Name Null? Type	
SQL> desc item	
1 row created.	
new 1: insert into item values(8,'rice',450,100)	
old 1: insert into item values(&itemno,'&itemname',&price,&qty)	
Enter value for qty: 100	
Enter value for price: 450	
Enter value for itemname: rice	
Enter value for itemno: 8	
SQL>/	
1 row created.	
new 1: insert into item values(7,'paneer',400,75)	
old 1: insert into item values(&itemno,'&itemname',&price,&qty)	
Enter value for qty: 75	
Enter value for price: 400	
Enter value for itemname: paneer	
Enter value for itemno: 7	
SQL>/	
1 row created.	
new 1: insert into item values(6, 'vada', 40,60)	
old 1: insert into item values(&itemno,'&itemname',&price,&qty)	

ITEMNAME CHAR(15)

PRICE NUMBER(15)

QTY NUMBER(15)

SQL> select * from item 2;

ITEMNO ITEM	INAME PRICE	QTY
1 coffee	200 20	
2 roti	100 30	
3 chapati	70 100	
4 tea	20 70	
5 idli	110 50	
6 vada	40 60	
7 paneer	400 75	

100

8 rows selected.

2)

SQL> select custname from customer;

8 rice 450

CUSTNAME

aaa

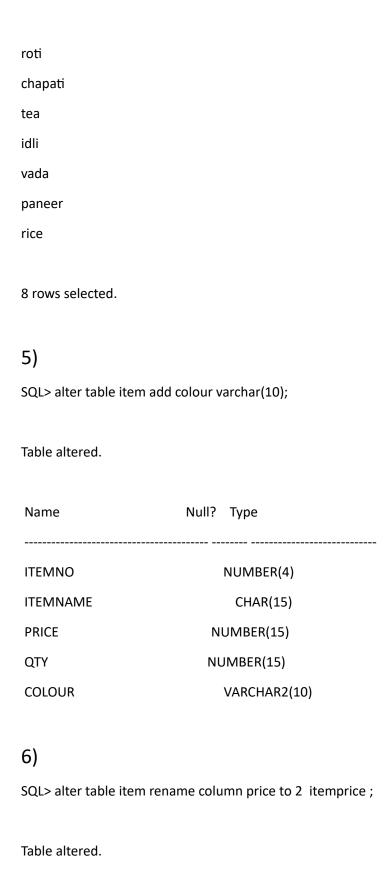
bbb

CCC

ddd

eee

```
fff
ggg
hhh
8 rows selected.
3)
SQL> select custname, city from customer;
CUSTNAME
           CITY
-----
        mumbai
aaa
        pune
bbb
       jaipur
CCC
ddd
       indore
       bhopal
eee
fff
       indore
       baroda
ggg
       hydrabad
hhh
8 rows selected.
4)
SQL> select itemname from item;
ITEMNAME
coffee
```



Name	Null? Type	
ITEMNO	NUMBER(4)	
ITEMNAME	CHAR(15)	
ITEMPRICE	NUMBER(15)	
QTY	NUMBER(15)	
COLOUR	VARCHAR2(10)	

7)

SQL> select itemname, itemprice, qty, (itemprice * qty) as total_value from item;

ITEMNAME	ITEN	/IPRICE	QTY TOTAL_VALUE
coffee	200	20	4000
roti	100	30	3000
chapati	70	100	7000
tea	20	70	1400
idli	110	50	5500
vada	40	60	2400
paneer	400	75	30000
rice	450	100	45000

8 rows selected.

8)

SQL> select *from customer where state='rajasthan';

CUSTNO CUSTNAME CITY STATE

3 ccc jaipur rajasthan

9)

SQL> select itemname, itemprice, qty from item where itemprice between 300 and 450;

no rows selected

10)

SQL> select custname, city, state from customer where city='amaravati' and state in ('maharashtra', 'telengana');

no rows selected

11)

SQL> select itemname, itemprice from item order by itemprice desc;

ITEMNO	ITEMNAME	ITEMPRICE	QTY	, CC	DLOUR	TOTAL
8	rice	450		100		45000
7	paneer	400		75		30000
1	coffee	200		20		4000
5	idli	110		50		5500
2	roti	100		30		3000
3	chapati	70		100		7000
6	vada	40		60		2400
4	tea	20	70		1400	

8 rows selected.

12)

SQL> select custname, city, state from customer where city in ('pune', 'baroda', 'indore');

CUSTNAME CITY STATE

----bbb pune maharashtra

ddd indore madhya pradesh
ggg baroda gujarat

13)

SQL> select min(itemprice) as lowest_price from item;

MIN(ITEMPRICE)

20

14)

SQL> select itemname, itemprice from item where itemprice <150;

ITEMNO ITEM	ITEMNO ITEMNAME		QTY
1 coffee	200	20	
2 roti	100	30	
3 chapati	70	100	
4 tea	20	70	
5 idli	110	50	
6 vada	40	60	

15)

SQL> create table maha_cust as select * from customer where state='maharashtra';

Table created.

SQL> select * from maha_cust;

CUSTN	CUSTNO CUSTNAME		CITY	STATE
1 aa	a n	numbai	maharashtra	
2 bb	b p	une	maharashtra	

16)

SQL> create table gujarat_cust as select * from customer where state in ('madhya pradesh', 'guajrat');

Table created.

SQL> select * from gujarat_cust;

STATE	CITY	CUSTNO CUSTNAME		
	gujarat	surat	6 fff	
at	gujarat	baroda	7 ggg	
ya pradesh	madhya	indore	4 ddd	
nya Pradesl	madhy	bhopal	4 eee	

17)

SQL> alter table gujarat_cust rename to madhya pradesh_cust;

Table altered.

SQL> select * from madhya pradesh_cust;

CUSTNO CUSTNAME CITY STATE

5 eee bhopal madhya pradesh

7 ggg baroda gujarat

18)

SQL> select * from customer where state not in('gujarat', 'madhya pradesh');

CUSTNO CUSTNAME	CITY	STATE

1 aaa mumbai maharshtra

2 bbb pune maharashtra

3 ccc jaipur rajasthan

8 hhh hydrabad telangana

6 rows selected.

19)

SQL> select custname, city, state from customer where state='karnataka'; no rows selected

20)

SQL> delete customer where city='mumbai';

1 row deleted.

Q.2)

create table worker(workerid number(10), first_name char(10), last_name char(10), salary number(10),joining_date char (10),department char(10)); Table created. SQL> insert into worker values(&workerid,'&first_name','&last_name',&salary,'&joining_date','&department'); Enter value for workerid: 001 Enter value for first_name: monika Enter value for last_name: aaher Enter value for salary: 10000 Enter value for joining_date: 2014-02-20 Enter value for department: hr old 1: insert into worker values(&workerid,'&first_name','&last_name',&salary,'&joining_date','&department') new 1: insert into worker values(001, 'monika', 'aaher', 10000, '2014-02-20', 'hr') 1 row created. SQL>/ Enter value for workerid: 002 Enter value for first_name: niharika Enter value for last_name: vedpathak Enter value for salary: 8000 Enter value for joining_date: 2014-06-11 Enter value for department: admin old 1: insert into worker values(&workerid, '&first_name', '&last_name', &salary, '&joining_date', '&department')

new 1: insert into worker values(002, 'niharika', 'vedpathak', 8000, '2014-06-11', 'admin')

1 row created.

SQL>/

Enter value for workerid: 003

Enter value for first_name: vishal

Enter value for last_name: shinde

Enter value for salary: 30000

Enter value for joining_date: 2014-02-20

Enter value for department: hr

old 1: insert into worker

values(&workerid,'&first_name','&last_name',&salary,'&joining_date','&department')

new 1: insert into worker values(003, 'vishal', 'shinde', 30000, '2014-02-20', 'hr')

1 row created.

SQL>/

Enter value for workerid: 004

Enter value for first_name: amitabh

Enter value for last_name: surwase

Enter value for salary: 28000

Enter value for joining_date: 2014-02-20

Enter value for department: admin

old 1: insert into worker

values(&workerid,'&first_name','&last_name',&salary,'&joining_date','&department')

new 1: insert into worker values(004, 'amitabh', 'surwase', 28000, '2014-02-20', 'admin')

1 row created.

SQL>/

Enter value for workerid: 005

Enter value for first_name: vivek

Enter value for last_name: bhuse

Enter value for salary: 25000

Enter value for joining_date: 2014-06-11

Enter value for department: admin

old 1: insert into worker

values(&workerid,'&first_name','&last_name',&salary,'&joining_date','&department')

new 1: insert into worker values(005, 'vivek', 'bhuse', 25000, '2014-06-11', 'admin')

1 row created.

SQL>/

Enter value for workerid: 006

Enter value for first_name: vipul

Enter value for last_name: diwate

Enter value for salary: 20000

Enter value for joining_date: 2014-06-11

Enter value for department: account

old 1: insert into worker

values(&workerid,'&first_name','&last_name',&salary,'&joining_date','&department')

new 1: insert into worker values(006, 'vipul', 'diwate', 20000, '2014-01-20', 'account')

1 row created.

SQL>/

Enter value for workerid: 007

Enter value for first_name: satish

Enter value for last_name: kulkarni

Enter value for salary: 7500

Enter value for joining_date: 2014-01-20

Enter value for department: account

old 1: insert into worker

values(&workerid,'&first_name','&last_name',&salary,'&joining_date','&department')

new 1: insert into worker values(007, 'satish', 'kulkarni', 7500, '2014-01-20', 'account')

1 row created.

SQL>/

Enter value for workerid: 008

Enter value for first_name: geetika

Enter value for last_name: chavan

Enter value for salary: 9000

Enter value for joining_date: 2014-04-11

Enter value for department: admin

old 1: insert into worker

values(&workerid,'&first_name','&last_name',&salary,'&joining_date','&department')

new 1: insert into worker values(008, 'geetika', 'chavan', 9000, '2014-04-11', 'admin')

1 row created.

SQL> select * from worker;

WORKERID FIRST_NAME LAST_NAME SALARY JOINING_DA DEPARTMENT

1 monika aaher 10000 2014-02-20 hr

```
2 niharika vedpathak
                            8000 2014-06-11 admin
    3 vishal shinde
                        30000 2014-02-20 hr
    4 amitabh surwase
                           28000 2014-02-20 admin
    5 vivek bhuse
                        25000 2014-06-11 admin
    6 vipul diwate
                        20000 2014-06-11 account
    7 satish kulkarni
                         7500 2014-01-20 account
    8 geetika chavan
                          9000 2014-04-11 admin
8 rows selected.
SQL> select first_name as worker_name from worker;
WORKER_NAM
monika
niharika
vishal
amitabh
vivek
vipul
satish
geetika
```

8 rows selected.

2)

1)

SQL> select upper(first_name) from worker;

UPPER(FIRS
MONIKA
NIHARIKA
VISHAL
AMITABH
VIVEK
VIPUL
SATISH
GEETIKA
8 rows selected.
3)
SQL> select department from worker group by department;
DEPARTMENT
hr
account
admin
4)
SQL> select substr(first_name,1,3) from worker;
SUB

mon
nih
vis
ami
viv
vip
sat
gee
8 rows selected.
5)
SQL> select instr(first_name,'A') from worker where worker_id=4;
INSTR(FIRST_NAME,'A')
0
6)
SQL> select rtrim(first_name) as"names" from worker;
names
monika
niharika
vishal
amitabh
vivek

satish
geetika
8 rows selected.
7)
SQL> select ltrim(department) as "depart" from worker;
depart

hr
admin
hr
admin
admin
account
account
admin
8 rows selected.
8)
SQL> select length(department) from worker group by department;
LENGTH(DEPARTMENT)

```
7
```

5

vishal shinde

amitabh survase

```
9)
SQL> select replace(first_name, 'a', 'A') from worker;
REPLACE(FI
monikA
nihArikA
vishAl
AmitAbh
vivek
vipul
satish
geetikA
8 rows selected.
10)
SQL> select concat(first_name,' ',last_name) as full_name from worker;
FULL_NAME
monika aaher
niharika vedpathak
```

vivek bhuse

vipul diwate

satish Kulkarni

geetika chavan

11)

SQL> select * from worker order by first_name asc;

WORKER ID FIRST NAME LAST NAME SALARY JOINING D DEPARTMENT

4 amitabh survase 28000 20-FEB-14 admin

8 geetika chavan 9000 11-APR-14 admin

1 monika aaher 10000 20-FEB-14 hr

2 niharika vedpathak 8000 11-JUN-14 admin

7 satish kulkarni 7500 20-JAN-14 account

6 vipul diwate 20000 11-JUN-14 account

3 vishal shinde 30000 20-FEB-14 hr

5 vivek bhuse 25000 11-JUN-14 admin

8 rows selected.

12)

SQL> select * from worker where first_name not in ('vipul', 'satish');

WORKER_ID FIRST_NAME LAST_NAME SALARY JOINING_D DEPARTMENT

1 monika aaher 10000 20-FEB-14 hr

2 niharika vedpathak 8000 11-JUN-14 admin

3 vishal shinde 30000 20-FEB-14 hr

4 amitabh survase 28000 20-FEB-14 admin

5 vivek bhuse 25000 11-JUN-14 admin

8 geetika chavan 9000 11-APR-14 admin

6 rows selected.

SQL> select * from worker where first_name not in ('vipul','satish');

WORKER_ID FIRST_NAME LAST_NAME SALARY JOINING_D DEPARTMENT

1 monika aaher 10000 20-FEB-14 hr

2 niharika vedpathak 8000 11-JUN-14 admin

3 vishal shinde 30000 20-FEB-14 hr

4 amitabh survase 28000 20-FEB-14 admin

5 vivek bhuse 25000 11-JUN-14 admin

8 geetika chavan 9000 11-APR-14 admin

6 rows selected.

13)

SQL> select * from worker where first name like '%a%';

WORKER_ID FIRST_NAME LAST_NAME SALARY JOINING_D DEPARTMENT

1 monika aaher 10000 20-FEB-14 hr

2 niharika vedpathak 8000 11-JUN-14 admin

3 vishal shinde 30000 20-FEB-14 hr

4 amitabh survase 28000 20-FEB-14 admin

```
8 geetika chavan 9000 11-APR-14 admin
6 rows selected.
14)
SQL> select * from worker where first name like ' h';
WORKER ID FIRST NAME LAST NAME SALARY JOINING D DEPARTMENT
    7 satish kulkarni 7500 20-JAN-14 account
15)
SQL> select * from emp10 where joining_date='20-feb-14';
WORKER_ID FIRST_NAME LAST_NAME SALARY JOINING_D DEPARTMENT
    1 monika aaher 10000 20-FEB-14 hr
    3 vishal shinde 30000 20-FEB-14 hr
    4 amitabh survase 28000 20-FEB-14 admin
16)
SQL> alter table worker drop column joining_date;
Table altered.
SQL> select * from worker;
```

7 satish kulkarni 7500 20-JAN-14 account

WORKER_ID FIRST_NAME LAST_NAME SALARY DEPARTMENT

-----1 monika aaher 10000 hr 2 niharika vedpathak 8000 admin 3 vishal shinde 30000 hr 4 amitabh survase 28000 admin 5 vivek bhuse 25000 admin 6 vipul diwate 20000 account 7 satish kulkarni 7500 account 8 geetika chavan 9000 admin 8 rows selected. 17) SQL> select count (worker_id) from worker where department ='admin'; COUNT(WORKER_ID) 4 18) SQL> select first_name from worker where salary>=5000 and salary<=20000; FIRST_NAME monika niharika

vipul satish

19)

SQL> select department, count (department) from worker group by department;

DEPARTMENT COUNT(DEPARTMENT)

hr 2

account 2

admin 4

20)

SQL> select * from worker where worker_id in (1,3,5,7);

WORKER_ID FIRST_NAME LAST_NAME SALARY DEPARTMENT

1 monika aaher 10000 hr

3 vishal shinde 30000 hr

5 vivek bhuse 25000 admin

7 satish kulkarni 7500 account

21)

SQL> select * from worker where worker_id not in (1,3,5,7);

WORKER_ID FIRST_NAME LAST_NAME SALARY DEPARTMENT

2 niharika vedpathak 8000 admin

4 amitabh survase 28000 admin

6 vipul diwate 20000 account

8 geetika chavan 9000 admin

22)

SQL> create table emp as select * from worker;

Table created.

SQL> select * from emp;

WORKER_ID FIRST_NAME LAST_NAME SALARY DEPARTMENT

1 monika aaher 10000 hr

2 niharika vedpathak 8000 admin

3 vishal shinde 30000 hr

4 amitabh survase 28000 admin

5 vivek bhuse 25000 admin

6 vipul diwate 20000 account

7 satish kulkarni 7500 account

8 geetika chavan 9000 admin

8 rows selected.

23)

SQL> select current_timestamp from dual;

CURRENT_TIMESTAMP

05-SEP-24 09.01.29.094000 AM +05:30

24)
SQL> select max(salary)from worker;
MAX(SALARY)
30000
25)
SQL> select department,count(department) as worker_count from worker group by having count(department)<5;
DEPARTMENT WORKER_COUNT
hr 2
account 2
admin 4
26)
SQL> update worker set salary=salary+1500;
8 rows updated.
SQL> select * from worker ;
WORKER_ID FIRST_NAME LAST_NAME SALARY DEPARTMENT
1 monika aaher 11500 hr

2 niharika vedpathak 9500 admin

3 vishal shinde 31500 hr

4 amitabh survase 29500 admin

5 vivek bhuse 26500 admin

6 vipul diwate 21500 account

7 satish kulkarni 9000 account

8 geetika chavan 10500 admin

8 rows selected.

27)

SQL> select department ,avg(salary)from worker group by department;

DEPARTMENT AVG(SALARY)

hr 21500

account 15250

admin 19000

28)

SQL> select first_name, salary from worker where salary>(select avg(salary) from worker;

FIRST_NAME SALARY

vishal 31500

amitabh 29500

vivek 26500

Vipul 21500

SQL> select department ,sum(salary) from worker group by department;

DEPARTMENT SUM(SALARY)

hr 43000

account 30500

admin 80000

30)

SQL> update worker set salary=salary+1000 where department='admin';

4 rows updated.

SQL> select * from worker where department='admin';

WORKER_ID FIRST_NAME LAST_NAME SALARY DEPARTMENT

2 niharika vedpathak 10500 admin

4 amitabh survase 30500 admin

5 vivek bhuse 27500 admin

8 geetika chavan 11500 admin

4 rows selected.