

### Assignment 3

1. Create table dept with the following attributes (Add constraints during creation of the table):

Column name	Data type(size)	Constraints
dept_id	number(3)	primary key
dept_name	varchar2(10)	

```
create table dep (dept_id number(3) not null,dept_name varchar2(10),primary key(dept_id));
```

#### SQL Worksheet

```
1 create table dep (dept_id number(3) not null,dept_name varchar2(10),primary key(dept_id));
2 |
```

Table created.

2. Insert 4 department records with names and id's 90, 69, 100 and 110.

```
insert into dep values(90,'CSE');
insert into dep values(69,'IT');
insert into dep values(100,'EE');
insert into dep values(110,'ECE');
select * from dep;
```

#### SQL Worksheet

```
1 insert into dep values(90,'CSE');
2 insert into dep values(69,'IT');
3 insert into dep values(100,'EE');
4 insert into dep values(110,'ECE');
5 select * from dep;
6 |
```

1 row(s) inserted.

1 row(s) inserted.

DEP_ID	DEP_NAME
90	CSE
69	IT
100	EE
110	ECE

3. Create table Student with the following attributes(Add constraints during creation of the table) :

Column name	Data type(size)	Constraints
stud_id	number(3)	primary key
name	varchar2(15)	

**marks**  
**Dept\_id**

**number(5,2)**  
**number(3)**

**foreign key refers to dept**

```
create table Student (stud_id number(3) not null,name varchar2(15),marks number(5,2),dep_id number(3),primary key(stud_id),foreign key (dep_id) references dep (dep_id));
```

SQL Worksheet

 Clear

```
1 create table Student (stud_id number(3) not null,name varchar2(15),marks number(5,2),dep_id number(3),primary key(stud_id),foreign key (dep_id) references dep (dep_id));
```

Table created.

#### 4. Insert 4 student records.

```
insert into Student(stud_id,name,marks,dep_id)values('1','Suvodeep','57','90');
insert into Student(stud_id,name,marks,dep_id)values('2','Didhiti','88','69');
insert into Student(stud_id,name,marks,dep_id)values('3','Amlan','94','100');
insert into Student(stud_id,name,marks,dep_id)values('4','Sahin','45','110');
select * from Student;
```

SQL Worksheet

```
1 insert into Student(stud_id,name,marks,dep_id)values('1','Suvodeep','57','90');
2 insert into Student(stud_id,name,marks,dep_id)values('2','Didhiti','88','69');
3 insert into Student(stud_id,name,marks,dep_id)values('3','Amlan','94','100');
4 insert into Student(stud_id,name,marks,dep_id)values('4','Sahin','45','110');
5 select * from Student;
6
```

1 row(s) inserted.

1 row(s) inserted.

STUD_ID	NAME	MARKS	DEP_ID
1	Suvodeep	57	90
2	Didhiti	88	69
3	Amlan	94	100
4	Sahin	45	110

[Download CSV](#)

4 rows selected.

#### 5. Insert a record in the student table with dept\_id 50

```
insert into dep(dep_id,dep_name)values('50','IOT');
insert into Student(stud_id,name,marks,dep_id)values('5','Peter','54','50');
select * from Student;
```

## SQL Worksheet

```
1 insert into dep(dep_id,dep_name)values('50','IOT');
2 insert into Student(stud_id,name,marks,dep_id)values('5','Peter','54','50');
3 select * from Student;|
```

1 row(s) inserted.

STUD_ID	NAME	MARKS	DEP_ID
1	Suvodeep	57	90
2	Didhiti	88	69
3	Amlan	94	100
4	Sahin	45	110
5	Peter	54	50

6. Display the name and marks of the students whose name contain at least one 'd'. [using like]

```
select name,marks from Student where name like '%d%';
```

## SQL Worksheet

```
1 select name,marks from Student where name like '%d%';|
```

NAME	MARKS
Suvodeep	57
Didhiti	88

7. Create table cust100 with the following attributes (Add constraints after creating the table):

create table cust100(emp\_id number(3) not null,first\_name varchar2(10),last\_name varchar2(10),e\_mail varchar2(20),ph\_no varchar2(15),hire\_date date,job\_id varchar2(10),salary number(8,2),mgr\_id number(3),dep\_id number(3),primary key (emp\_id),foreign key (dep\_id) references dep(dep\_id));

```

16 --select name from Student where name like '%d%';
17 create table cust100(emp_id number(3) not null,first_name varchar2(10),last_name varchar2(10),e_mail varchar2(20),ph_no varchar2(15),hire_date date,job_id varchar2(10),salary number(8,2),mgr_id number(3),dep_id number(3),primary key (emp_id),foreign key (dep_id) references dep(dep_id));

```

Table created.

## 8. Add 6 records to cust 100:

```

insert into cust100 values(1,'mitali','singh','mitali90@gmail.com','9065123105','25-AUG-11','11',50000.00,111,90);
insert into cust100 values(2,'ayushi','shriwastav','ayshi88@gmail.com','9064567105','2-OCT-10','22',55000.00,222,100);
insert into cust100 values(3,'gaurav','muskan','musgavi58@gmail.com','9864567105','2-DEC-13','33',66000.00,333,110);
insert into cust100 values(4,'muskan','singh','muskan98@gmail.com','9864567896','22-DEC-13','33',69000.00,444,110);
insert into cust100 values(5,'nikhil','kumar','kumar00@gmail.com','9861234896','22-FEB-10','55',70000.00,555,90);
insert into cust100 values(6,'bhawesh','kumar','bhawesh23@gmail.com','8872234896','22-JUN-11','55',60000.00,666,100);
select * from cust100;

```

```

16 --select name from Student where name like '%d%';
17 --create table cust100(emp_id number(3) not null,first_name varchar2(10),last_name varchar2(10),e_mail varchar2(20),ph_no varchar2(15),hire_date date,job_id varchar2(10),salary number(8,2),mgr_id number(3),dep_id number(3),primary key (emp_id),foreign key (dep_id) references dep(dep_id));
18 insert into cust100 values(1,'mitali','singh','mitali90@gmail.com','9065123105','25-AUG-11','11',50000.00,111,90);
19 insert into cust100 values(2,'ayushi','shriwastav','ayshi88@gmail.com','9064567105','2-OCT-10','22',55000.00,222,100);
20 insert into cust100 values(3,'gaurav','muskan','musgavi58@gmail.com','9864567105','2-DEC-13','33',66000.00,333,110);
21 insert into cust100 values(4,'muskan','singh','muskan98@gmail.com','9864567896','22-DEC-13','33',69000.00,444,110);
22 insert into cust100 values(5,'nikhil','kumar','kumar00@gmail.com','9861234896','22-FEB-10','55',70000.00,555,90);
23 insert into cust100 values(6,'bhawesh','kumar','bhawesh23@gmail.com','8872234896','22-JUN-11','55',60000.00,666,100);
24 select * from cust100;
25

```

EMP_ID	FIRST_NAME	LAST_NAME	E_MAIL	PH_NO	HIRE_DATE	JOB_ID	SALARY	MGR_ID	DEP_ID
1	mitali	singh	mitali90@gmail.com	9065123105	25-AUG-11	11	50000	111	90
2	ayushi	shriwastav	ayshi88@gmail.com	9064567105	02-OCT-10	22	55000	222	100
4	muskan	singh	muskan98@gmail.com	9864567896	22-DEC-13	33	69000	444	110

## 9. Drop column mgr\_id

alter table cust100  
drop column mgr\_id; select \* from cust100;

```

25 alter table cust100 drop column mgr_id;
26 select * from cust100;
27

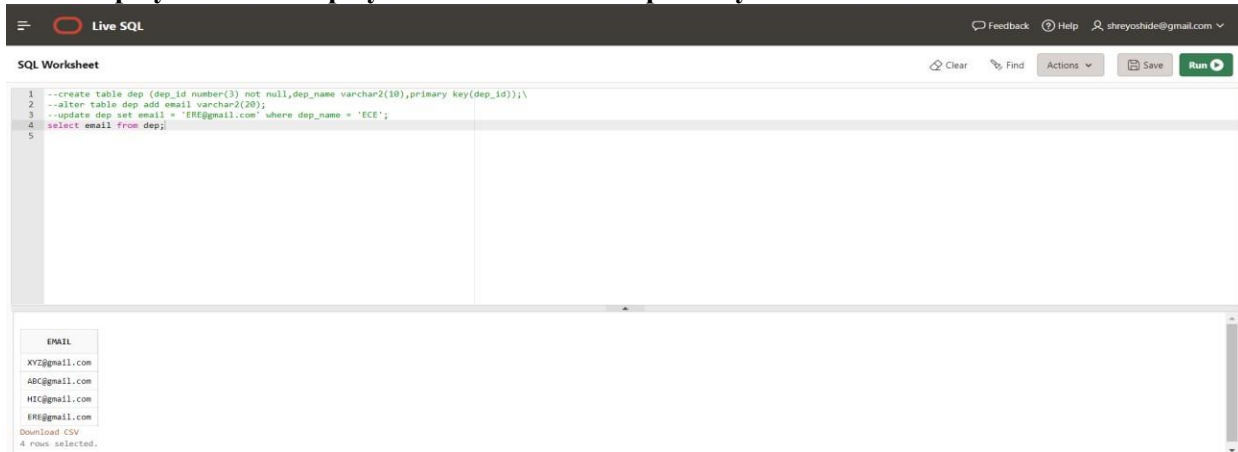
```

Table altered.

EMP_ID	FIRST_NAME	LAST_NAME	E_MAIL	PH_NO	HIRE_DATE	JOB_ID	SALARY	DEP_ID
1	mitali	singh	mitali90@gmail.com	9065123105	25-AUG-11	11	50000	90

## ASSIGNMENT 2

### 16. From 'employees' table display email and domain separately.



The screenshot shows a 'Live SQL' interface. The SQL Worksheet contains the following code:

```
1 --create table dep (dep_id number(3) not null, dep_name varchar2(10), primary key(dep_id));\n2 --alter table dep add email varchar2(20);\n3 --update dep set email = 'ERE@gmail.com' where dep_name = 'ECE';\n4 select email from dep;\n5
```

The Results pane shows the output of the query:

EMAIL
XY2@gmail.com
ABC@gmail.com
HTC@gmail.com
ERE@gmail.com

Download CSV  
4 rows selected.

```
SELECT SUBSTRING ([email], CHARINDEX( '@', [email]) + 1,  
LEN([email])) AS [Domain]  
FROM [dep];
```

gmail.com
gmail.com
gmail.com
gmail.com