# LAB ASSIGN MENT

### Code-PCC-CS601 Stream-IT Sem-6th

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**Roll Number: 23** 

## **Assignment-2**

#### Create table dept with the following attributes:

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

SQL> create table dept(

- 2 dept\_id number(3),
- 3 dept\_name varchar2(15),
- 4 constraint pk\_dept primary key(dept\_id));

Table created.

SQL> desc dept;

Name Null? Type

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DEPT\_ID NOT NULL NUMBER(3)

DEPT\_NAME VARCHAR2(15)

#### Insert 4 depts with names and id's 90, 69, 100 and 110.

SQL> insert into dept values(&dept\_id, '&dept\_name');

Enter value for dept\_id: 90

Enter value for dept\_name: research

old 1: insert into dept values(&dept\_id, '&dept\_name')

```
new 1: insert into dept values(90, 'research')
1 row created.
Commit complete.
SQL>/
Enter value for dept_id: 69
Enter value for dept_name: finance
old 1: insert into dept values(&dept_id, '&dept_name')
new 1: insert into dept values(69, 'finance')
1 row created.
Commit complete.
SQL>/
Enter value for dept_id: 100
Enter value for dept_name: development
old 1: insert into dept values(&dept_id, '&dept_name')
new 1: insert into dept values(100, 'development')
1 row created.
Commit complete.
SQL>/
Enter value for dept_id: 110
Enter value for dept_name: sales
old 1: insert into dept values(&dept_id, '&dept_name')
new 1: insert into dept values(110, 'sales')
1 row created.
```

Commit complete.
SQL> select * from dept;
DEPT_ID DEPT_NAME
90 research

30 researer

69 finance

100 development

110 sales

#### Create table cust\_100 with the following attributes:

Column name	Data type(size)	Constraints
emp_id	number(3)	Primary key
first_name	varchar2(10)	Initial letter capital
last_name	varchar2(10)	Initial letter capital and not null
e_mail	varchar2(20)	All upper case
ph_no	varchar2(15)	
hire_date	Date	Should be > than 01-jan-1980
job_id	varchar2(10)	Must begin with FI or AD or IT
salary	number(8,2)	≥ 4000 & ≤ 25000
mgr_id	number(3)	
dept_id	number(3)	Foreign key, refer table dept

#### 1. Add 10 records to cust\_100

SQL> create table cust\_100(emp\_id number(3) primary key,first\_name varchar2(10) check(first\_name=initcap(first\_name)),last\_name varchar2(10) check(last\_name=initcap(last\_name)) not null,e\_mail varchar2(20) check(e\_mail=upper(e\_mail)),ph\_no varchar2(15),hire\_date date check(hire\_date>'01-JAN-1980'),job\_id varchar2(10) check(substr(job\_id,0,2) in ('FI', 'AD', 'IT')),salary number(8, 2) check(salary between 4000 and 25000),mgr\_id number(3),dept\_id number(3),constraint fk\_cust\_100\_dept foreign key(dept\_id) references dept(dept\_id));

Table created.

SQL> insert into cust\_100 values(&emp\_id, '&first\_name', '&last\_name', '&e\_mail', '&ph\_no', '&hire\_date', '&job\_id', &salary, &mgr\_id, &dept\_id);

Enter value for emp\_id: 1

Enter value for first\_name: Pronay

Enter value for last\_name: Guha

Enter value for e\_mail: PRONAY@GMAIL.COM

Enter value for ph\_no: 9051604100

Enter value for hire\_date: 23-Jul-2021

Enter value for job\_id: IT\_DEV

Enter value for salary: 25000

Enter value for mgr\_id: 11

Enter value for dept\_id: 100

old 1: insert into cust\_100 values(&emp\_id, '&first\_name', '&last\_name', '&e\_mail', '&ph\_no', '&hire\_date', '&job\_id', &salary, &mgr\_id, &dept\_id)

new 1: insert into cust\_100 values(1, 'Pronay', 'Guha', 'PRONAY@GMAIL.COM', '9051604100', '23-Jul-2021', 'IT\_DEV', 25000, 11, 100)

1 row created.

Commit complete.

SQL>/

Enter value for emp\_id: 2

Enter value for first\_name: Sagun

Enter value for last\_name: Jaiswal

Enter value for e\_mail: SJ@GMAIL.COM

Enter value for ph\_no: 7003242448

Enter value for hire\_date: 23-Jul-2021

Enter value for job\_id: IT\_SOFT

Enter value for salary: 24500

Enter value for mgr\_id: 13

Enter value for dept\_id: 110

old 1: insert into cust\_100 values(&emp\_id, '&first\_name', '&last\_name', '&e\_mail', '&ph\_no', '&hire\_date', '&job\_id', &salary, &mgr\_id, &dept\_id)

new 1: insert into cust\_100 values(2, 'Sagun', 'Jaiswal', 'SJ@GMAIL.COM', '7003242448', '23-Jul-2021', 'IT\_SOFT', 24500, 13, 110)

#### 1 row created.

Commit complete.

SQL>/

Enter value for emp\_id: 3

Enter value for first\_name: Debjit

Enter value for last\_name: Chatterjee

Enter value for e\_mail: JEET@GMAIL.COM

Enter value for ph\_no: 6291768764

Enter value for hire\_date: 23-Aug-2021

Enter value for job\_id: FI\_ASST

Enter value for salary: 24000

Enter value for mgr\_id: 18

Enter value for dept\_id: 110

old 1: insert into cust\_100 values(&emp\_id, '&first\_name', '&last\_name', '&e\_mail', '&ph\_no', '&hire\_date', '&job\_id', &salary, &mgr\_id, &dept\_id)

new 1: insert into cust\_100 values(3, 'Debjit', 'Chatterjee', 'JEET@GMAIL.COM', '6291768764', '23-Aug-2021', 'FI\_ASST', 24000, 18, 110)

1 row created.

Commit complete.

SQL>/

Enter value for emp\_id: 4

Enter value for first\_name: Rebanta

Enter value for last\_name: Ghosh

Enter value for e\_mail: REBANTA@GMAIL.COM

Enter value for ph\_no: 7756432981

Enter value for hire\_date: 07-Aug-2021

Enter value for job\_id: AD\_TRAINEE

Enter value for salary: 20000

Enter value for mgr\_id: 17

Enter value for dept\_id: 90

old 1: insert into cust\_100 values(&emp\_id, '&first\_name', '&last\_name', '&e\_mail', '&ph\_no',
'&hire\_date', '&job\_id', &salary, &mgr\_id, &dept\_id)

new 1: insert into cust\_100 values(4, 'Rebanta', 'Ghosh', 'REBANTA@GMAIL.COM', '7756432981',

1 row created.

Commit complete.

SQL>/

Enter value for emp\_id: 5

Enter value for first\_name: Bibartan

Enter value for last\_name: Podder

Enter value for e\_mail: BP@GMAIL.COM

'07-Aug-2021', 'AD\_TRAINEE', 20000, 17, 90)

Enter value for ph no: 6907654320

Enter value for hire\_date: 16-Sep-2021

Enter value for job\_id: FI\_ASST

Enter value for salary: 23000

Enter value for mgr\_id: 18

Enter value for dept\_id: 110

old 1: insert into cust\_100 values(&emp\_id, '&first\_name', '&last\_name', '&e\_mail', '&ph\_no', '&hire\_date', '&job\_id', &salary, &mgr\_id, &dept\_id)

new 1: insert into cust\_100 values(5, 'Bibartan', 'Podder', 'BP@GMAIL.COM', '6907654320', '16-Sep-2021', 'FI\_ASST', 23000, 18, 110)

1 row created.

Commit complete.

SQL>/

Enter value for emp\_id: 6

Enter value for first\_name: Samuel

Enter value for last\_name: Joseph

Enter value for e\_mail: SAMJ@GMAIL.COM

Enter value for ph\_no: 9965487640

Enter value for hire\_date: 12-Jun-2021

Enter value for job\_id: IT\_DEV

Enter value for salary: 24000

Enter value for mgr\_id: 11

Enter value for dept\_id: 110

old 1: insert into cust\_100 values(&emp\_id, '&first\_name', '&last\_name', '&e\_mail', '&ph\_no', '&hire\_date', '&job\_id', &salary, &mgr\_id, &dept\_id)

new 1: insert into cust\_100 values(6, 'Samuel', 'Joseph', 'SAMJ@GMAIL.COM', '9965487640', '12-Jun-2021', 'IT\_DEV', 24000, 11, 110)

1 row created.

Commit complete.

SQL>/

Enter value for emp\_id: 7

Enter value for first\_name: Brijesh

Enter value for last\_name: Tiwari

Enter value for e\_mail: BRIJEH@GMAIL.COM

Enter value for ph\_no: 9804567113

Enter value for hire\_date: 30-Jul-2021

Enter value for job\_id: FI\_ASST

Enter value for salary: 23900

Enter value for mgr\_id: 18

Enter value for dept\_id: 69

old 1: insert into cust\_100 values(&emp\_id, '&first\_name', '&last\_name', '&e\_mail', '&ph\_no', '&hire\_date', '&job\_id', &salary, &mgr\_id, &dept\_id)

new 1: insert into cust\_100 values(7, 'Brijesh', 'Tiwari', 'BRIJEH@GMAIL.COM', '9804567113', '30-Jul-2021', 'FI\_ASST', 23900, 18, 69)

1 row created.

Commit complete.

SQL>/

Enter value for emp\_id: 8

Enter value for first\_name: Payel

Enter value for last\_name: Biswas

Enter value for e\_mail: PAYELB@GMAIL.COM

Enter value for ph\_no: 999087650

Enter value for hire\_date: 29-Aug-2021

Enter value for job\_id: IT\_DEV

Enter value for salary: 23700

Enter value for mgr\_id: 11

Enter value for dept\_id: 110

old 1: insert into cust\_100 values(&emp\_id, '&first\_name', '&last\_name', '&e\_mail', '&ph\_no', '&hire\_date', '&job\_id', &salary, &mgr\_id, &dept\_id)

new 1: insert into cust\_100 values(8, 'Payel', 'Biswas', 'PAYELB@GMAIL.COM', '999087650', '29-Aug-2021', 'IT\_DEV', 23700, 11, 110)

1 row created.

Commit complete.

SQL>/

Enter value for emp\_id: 9

Enter value for first\_name: Abhishek

Enter value for last\_name: Pal

Enter value for e\_mail: ABHI@GMAIL.COM

Enter value for ph\_no: 7980897886

Enter value for hire\_date: 30-OCT-2021

Enter value for job\_id: FI

Enter value for salary: 19887

Enter value for mgr\_id: 11

Enter value for dept id: 69

```
old 1: insert into cust_100 values(&emp_id, '&first_name', '&last_name', '&e_mail', '&ph_no', '&hire_date', '&job_id', &salary, &mgr_id, &dept_id)

new 1: insert into cust_100 values(9, 'Abhishek', 'Pal', 'ABHI@GMAIL.COM', '7980897886', '30-OCT-2021', 'FI', 19887, 11, 69)
```

1 row created.

Commit complete.

SQL>/

Enter value for emp\_id: 10

Enter value for first\_name: Yuhan

Enter value for last\_name: Khan

Enter value for e\_mail: YUHANK@GMAIL.COM

Enter value for ph\_no: 7867665430

Enter value for hire\_date: 29-DEC-2021

Enter value for job\_id: AD

Enter value for salary: 21000

Enter value for mgr\_id: 10

Enter value for dept\_id: 90

old 1: insert into cust\_100 values(&emp\_id, '&first\_name', '&last\_name', '&e\_mail', '&ph\_no', '&hire\_date', '&job\_id', &salary, &mgr\_id, &dept\_id)

new 1: insert into cust\_100 values(10, 'Yuhan', 'Khan', 'YUHANK@GMAIL.COM', '7867665430', '29-DEC-2021', 'AD', 21000, 10, 90)

1 row created.

Commit complete.

SQL> SET LINESIZE 300;

SQL> SELECT \* FROM CUST\_100;

EMP\_ID FIRST\_NAME LAST\_NAME E\_MAIL PH\_NO HIRE\_DATE JOB\_ID SALARY MGR\_ID DEPT\_ID

...........

1 Pronay Guha PRONAY@GMAIL.COM 9051604100 23-JUL-21 IT\_DEV 25000 100 11 Jaiswal SJ@GMAIL.COM 7003242448 23-JUL-21 IT SOFT 24500 2 Sagun 13 110 Chatterjee JEET@GMAIL.COM 6291768764 23-AUG-21 FI ASST 24000 3 Debjit 18 110 4 Rebanta Ghosh REBANTA@GMAIL.COM 7756432981 07-AUG-21 AD\_TRAINEE 90 20000 17 5 Bibartan Podder BP@GMAIL.COM 6907654320 16-SEP-21 FI ASST 23000 18 110 6 Samuel Joseph SAMJ@GMAIL.COM 9965487640 12-JUN-21 IT\_DEV 24000 110 11 7 Brijesh Tiwari BRIJEH@GMAIL.COM 23900 9804567113 30-JUL-21 FI\_ASST 18 69 8 Payel Biswas PAYELB@GMAIL.COM 999087650 29-AUG-21 IT DEV 23700 110 11 9 Abhishek Pal ABHI@GMAIL.COM 7980897886 30-OCT-21 FI 19887 11 69 21000 10 Yuhan Khan YUHANK@GMAIL.COM 7867665430 29-DEC-21 AD 10 90

10 rows selected.

## 2. Drop column mrg\_id

SQL> ALTER TABLE CUST\_100 DROP COLUMN MGR\_ID;

Table altered.

3. Add column mgr\_id and make itself referenced such that first 4 id's correspond to first emp\_id, next 4 correspond to fifth emp\_id and the last 2 correspond to the ninth emp\_id.

SQL> alter table cust\_100 add foreign key(mgr\_id) references cust\_100(emp\_id);

Table altered.

SQL> update cust\_100 set mgr\_id=1 where emp\_id in (1, 2, 3, 4);

4 rows updated.

Commit complete.
SQL> update cust_100 set mgr_id=5 where emp_id in (5, 6, 7, 8);
4 rows updated.
Commit complete.
SQL> update cust_100 set mgr_id=9 where emp_id in (9, 10);
2 rows updated.
Commit complete.
SQL> desc cust_100;
Name Null? Type
EMP_ID NOT NULL NUMBER(3)
FIRST_NAME VARCHAR2(10)
LAST_NAME NOT NULL VARCHAR2(10)
E_MAIL VARCHAR2(20)
PH_NO VARCHAR2(15)
HIRE_DATE DATE
JOB_ID VARCHAR2(10)
SALARY NUMBER(8,2)
DEPT_ID NUMBER(3)

SQL> select \* from cust\_100;

EMP_ID FIRST_NAME DEPT_ID MGR_ID	LAST_NAME E_MAIL	PH_NO	HIRE_DATE JOB_II	O SALARY
1 Pronay Guha	PRONAY@GMAIL.COM	и 9051604100	23-JUL-21 IT_DEV	25000
2 Sagun Jaiswal	SJ@GMAIL.COM 7	7003242448 2	23-JUL-21 IT_SOFT	24500 110
3 Debjit Chatterj 110 1	ee JEET@GMAIL.COM	6291768764	23-AUG-21 FI_ASST	24000
4 Rebanta Ghosh 20000 90 1	REBANTA@GMAIL.C	OM 77564329	81 07-AUG-21 AD_	TRAINEE
5 Bibartan Podde 110 5	BP@GMAIL.COM	6907654320	16-SEP-21 FI_ASST	23000
6 Samuel Joseph 110 5	SAMJ@GMAIL.COM	9965487640	12-JUN-21 IT_DEV	24000
7 Brijesh Tiwari 69 5	BRIJEH@GMAIL.COM	9804567113	30-JUL-21 FI_ASST	23900
8 Payel Biswas 110 5	PAYELB@GMAIL.COM	999087650	29-AUG-21 IT_DEV	23700
9 Abhishek Pal 9	ABHI@GMAIL.COM	7980897886	30-OCT-21 FI	19887 69
10 Yuhan Khan 90 9	YUHANK@GMAIL.COI	M 7867665430	0 29-DEC-21 AD	21000

10 rows selected.