



PL/SQL Assignment

Introduction to PL/SQL

support@intellipaat.com

+91-7022374614

US: 1-800-216-8930(Toll Free)

EXERCISE - 1

Write a PL/SQL code to create an employee database with the tables and fields specified as below.

- a) Employee
- b) Works
- c) Company
- d) Manages

Note: Primary keys are underlined.

SOLUTION - 1:

```
SQL> create table employee (emp_no number(10) primary key,  
employee_name varchar2(20),street varchar2(20),city varchar2(20));  
Table created.
```

```
SQL> create table works (emp_no number(10) references employee,  
company_name varchar2(20), joining_date date, designation  
varchar2(20), salary number(10,2));  
Table created.
```

```
SQL> create table company (emp_no number(10) references employee,  
city varchar2(20));  
Table created.
```

```
SQL> create table manages(emp_no number(10)references  
employee,manager_name varchar2(20),mang_no number(20));  
Table created.
```

```
SQL> desc employee;
```

Name Null? Type

EMP_NO NOT NULL NUMBER(10)

EMPLOYEE_NAME VARCHAR2(20)

STREET VARCHAR2(20)

CITY VARCHAR2(20)

Emp_no Employee_name Street City

Emp_no Company_name Joining_date Designation Salary

Emp_no City

Emp_no Manager_name Mang_no

```
SQL> desc works;
```

Name Null? Type

```
EMP_NO NUMBER(10)
COMPANY_NAME VARCHAR2(20)
JOININD_DATE DATE
DESIGNATION VARCHAR2(20)
SALARY NUMBER(10,2)
```

SQL> desc manages;

Name Null? Type

```
-----
EMP_NO NUMBER(10)
MANAGER_NAME VARCHAR2(20)
MANG_NO NUMBER(20)
```

SQL> desc company;

Name Null? Type

```
-----
EMP_NO NUMBER(10)
CITY VARCHAR2(20)
```

SQL> create sequence emp_seq;

Sequence created.

SQL> insert into employee values(emp_seq.nextval,'rajesh','first
cross','gulbarga');

1 row created.

SQL> insert into employee values(emp_seq.nextval,'paramesh','second
cross','bidar');

1 row created.

SQL> insert into employee values(emp_seq.nextval,'pushpa','ghandhi
road','banglore');

1 row created.

```
SQL> insert into employee values(emp_seq.nextval,'vijaya','shivaji  
nagar','manglore');  
1 row created.
```

```
SQL> insert into employee values(emp_seq.nextval,'keerthi','anand  
sagar street','bijapur');  
1 row created.
```

```
SQL> select * from employee;
```

```
EMP_NO EMPLOYEE_NAME STREET CITY  
-----  
1 rajesh first cross gulbarga  
2 paramesh second cross bidar  
3 pushpa ghandhi road banglore  
4 vijaya shivaji nagar manglore  
5 keerthi anand sagar street bijapur
```

```
SQL> insert into works values(1,'abc','23-nov-2000','project  
lead',40000);  
1 row created.
```

```
SQL> insert into works values(2,'abc','25-dec-2010','software  
engg',20000);  
1 row created.
```

```
SQL> insert into works values(3,'abc','15-jan-2011','software  
engg',19000);  
1 row created.
```

```
SQL> insert into works values(4,'abc','19-jan-2011','software  
engg',19000);  
1 row created.
```

```
SQL> insert into works values(5,'abc','06-feb-2011','software
```

```
engg',18000);
```

1 row created.

```
SQL> select * from works;
```

```
EMP_NO COMPANY_NAME JOININD_D DESIGNATION SALARY
```

```
-----  
1 abc 23-NOV-00 project lead 40000  
2 abc 25-DEC-10 software engg 20000  
3 abc 15-JAN-11 software engg 19000  
4 abc 19-JAN-11 software engg 19000  
5 abc 06-FEB-11 software engg 18000
```

```
SQL> insert into company values(1,'gulbarga');
```

1 row created.

```
SQL> insert into company values(2,'bidar');
```

1 row created.

```
SQL> insert into company values(3,'banglore');
```

1 row created.

```
SQL> insert into company values(4,'manglore');
```

1 row created.

```
SQL> insert into company values(5,'bijapur');
```

1 row created.

```
SQL> select * from company;
```

```
EMP_NO CITY
```

```
-----  
1 gulbarga  
2 bidar
```

3 banglore

4 manglore

5 bijapur

```
SQL> insert into manages values(2,'rajesh',1);
```

1 row created.

```
SQL> insert into manages values(3,'rajesh',1);
```

1 row created.

```
SQL> insert into manages values(4,'rajesh',1);
```

1 row created.

```
SQL> insert into manages values(5,'rajesh',1);
```

1 row created.

```
SQL> select * from company;
```

EMP_NO CITY

1 gulbarga

2 bidar

3 banglore

4 manglore

5 bijapur

```
SQL> select * from manages;
```

EMP_NO MANAGER_NAME MANG_NO

2 rajesh 1

3 rajesh 1

4 rajesh 1

5 rajesh 1