



सी डैक  
CDAC

प्रगत संगणन विकास केंद्र  
CENTRE FOR DEVELOPMENT OF ADVANCED COMPUTING

# Post Graduate Diploma in Advance Computing

## Database Technologies Assignment – 2

Prepared By –

Md Farazul Haque

PRN - 210980420078

1. Create the DEPARTMENT table based on the following table chart.

COLUMN NAME	DATA TYPE	LENGTH
id	number	7
name	varchar2	10

Insert value 1 for id column and value Amit's for Name column into department table.

Answer –

```
create table DEPARTMENT(id number(7), name varchar2(10));
insert into DEPARTMENT values(1, 'Amit's');
```

```
select * from department;
```

```

ID  NAME
-----
 1  Amit's
```

2. Create a table MY\_EMPLOYEE of following structure.

Name	Type
ID	Number(4)
Last_Name	Varchar2(25)
First_Name	Varchar2(25)
Userid	Varchar2(8)
Salary	Number(9,2)

Answer –

```
create table MY_EMPLOYEE
(
  id number(4),
  last_name varchar2(25),
  first_name varchar2(25),
  userid varchar2(8),
  salary number(9,2)
);
```

3. Add the first row of data to the MY\_EMPLOYEE table from the following sample data. Do not list the columns in the INSERT clause.

ID	LAST_NAME	FIRST_NAME	USERID	SALARY
1	Patel	Ralph	rpatel	895
2	Dancs	Betty	bdancs	860
3	Biri	Ben	bbiri	1100
4	Newman	Chad	cnewman	750
5	Ropeburn	Audrey	aropebur	1550

Answer –

```
insert into MY_EMPLOYEE values(1, 'Patel', 'Ralph', 'rpatel', 895);
```

4. Populate the MY\_EMPLOYEE table with the second row of sample data from the preceding list. This time, list the columns explicitly in the INSERT clause. Confirm your addition to the table.

Answer –

```
insert into MY_EMPLOYEE(id,last_name,first_name,userid,salary)
values(2,'Dancs','Betty','bdancs',860);
```

```
SQL> select * from MY_EMPLOYEE;
```

	ID	LAST_NAME	FIRST_NAME	USERID	SALARY
-----					
1	Patel	Ralph	rpatel	895	
2	Dancs	Betty	bdancs	860	

5. Write an insert statement in a text file named loademp.sql to load rows into the MY\_EMPLOYEE table.

Answer –

```
@C:\Users\DELL\Desktop\loademp.sql
```

6. Populate the table with the next two rows of sample data by running the insert statement in the script that you created.

Answer –

```
@C:\Users\DELL\Desktop\loademp.sql
```

**Confirm your additions to the table.**

**Answer –**

```
SQL> select * from MY_EMPLOYEE;
```

ID	LAST_NAME	FIRST_NAME	USERID	SALARY
1	Patel	Ralph	rpatel	895
2	Dancs	Betty	bdancs	860
3	Biri	Ben	bbiri	1100
4	Newman	Chad	cnewman	750
5	Ropeburn	Audrey	aropebur	1550

**7. Make the data additions permanent.**

```
SQL> commit;
```

**Update and delete data in the MY\_EMPLOYEE table.**

**8. Change the last name of employee 3 to Drexler.**

**Answer –**

```
update MY_EMPLOYEE set last_name='Drexler' where id=3;
```

**9. Change the salary to 1000 for all employees with a salary less than 900. Verify your changes to the table.**

**Answer –**

```
update MY_EMPLOYEE set salary=1000 where salary<900;
```

**10. Delete Betty Dancs from the MY\_EMPLOYEE table.**

**Answer –**

```
delete from MY_EMPLOYEE where first_name='Betty';
```

**Confirm your changes to the table.**

**Answer –**

```
SQL> select * from my_employee;
```

ID	LAST_NAME	FIRST_NAME	USERID	SALARY
1	Patel	Ralph	rpatel	1000
3	Drexler	Ben	bbiri	1100
4	Newman	Chad	cnewman	1000
5	Ropeburn	Audrey	aropebur	1550

**11. Commit all pending changes.**

**Answer –**

```
commit;
```

**Control data transaction to the MY\_EMPLOYEE table.**

**12. Populate the table with the last row of sample data by modifying the statements in the script that you created in step 6. Run the statements in the script.**

**Answer –**

```
@C:\Users\DELL\Desktop\loademp.sql
```

**Confirm your addition to the table.**

**Answer –**

```
SQL> select * from my_employee;
```

ID	LAST_NAME	FIRST_NAME	USERID	SALARY
1	Patel	Ralph	rpatel	1000
3	Drexler	Ben	bbiri	1100
4	Newman	Chad	cnewman	1000
5	Ropeburn	Audrey	aropebur	1550
5	Ropeburn	Audrey	aropebur	1550

**13. Mark an intermediate point in the processing of the transaction. Empty the entire table.**

**Answer –**

```
SQL> savepoint a;
```

```
SQL> delete from my_employee;
```

**14. Confirm that the table is empty.**

**Answer –**

```
SQL> select * from my_employee;
```

```
no rows selected
```

**15. Discard the most recent DELETE operation without discarding the earlier INSERT operation. Confirm that the new row is still intact.**

**Answer –**

```
SQL> rollback to a;
```

Rollback complete.

```
SQL> select * from my_employee;
```

ID	LAST_NAME	FIRST_NAME	USERID	SALARY
1	Patel	Ralph	rpatel	1000
3	Drexler	Ben	bbiri	1100
4	Newman	Chad	cnewman	1000
5	Ropeburn	Audrey	aropebur	1550
5	Ropeburn	Audrey	aropebur	1550