

EXPERIMENT: 1**DATE: 26.07.2024****CREATION OF DATABASE AND DML OPERATIONS**

1. Create MY_EMPLOYEE table with the following structure

| NAME | NULL? | TYPE |
|------------|----------|-------------|
| ID | Not null | Number(4) |
| Last_name | | Varchar(25) |
| First_name | | Varchar(25) |
| Userid | | Varchar(25) |
| Salary | | Number(9,2) |

create table MY_EMPLOYEE(ID NUMBER(4) NOT NULL, LAST_NAME VARCHAR(25), FIRST_NAME VARCHAR(25), SALARY NUMBER(9,2));

| Column Name | Data Type | Nullable | Default | Primary Key |
|-------------|--------------|----------|---------|-------------|
| ID | NUMBER(4,0) | No | - | - |
| LAST_NAME | VARCHAR2(25) | Yes | - | - |
| FIRST_NAME | VARCHAR2(25) | Yes | - | - |
| USERID | VARCHAR2(25) | Yes | - | - |
| SALARY | NUMBER(9,2) | Yes | - | - |
| 1 - 5 | | | | |

2. Add the first and second rows data to MY_EMPLOYEE table from the following sample data.

| 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 | Ropebur | Audrey | aropebur | 1550 |

**insert
all**

**into MY_EMPLOYEE(ID,LAST_NAME,FIRST_NAME,USERID,SALARY) values
(1,'Patel','Ralph','rpatel',895)
into MY_EMPLOYEE(ID,LAST_NAME,FIRST_NAME,USERID,SALARY) values
(2,'Dancs','Betty','bdancs',860)**

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into MY_EMPLOYEE(ID, LAST_NAME, FIRST_NAME, USERID, SALARY) values
(3, 'Biri', 'Ben', 'bbiri', 1100)
into MY_EMPLOYEE(ID, LAST_NAME, FIRST_NAME, USERID, SALARY) values
(4, 'Newman', 'Chad', 'Cnewman', 750)
into MY_EMPLOYEE(ID, LAST_NAME, FIRST_NAME, USERID, SALARY)
values (1, 'Ropebur', 'Audrey', 'aropebur', 1550);

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| EDIT | 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 | Ropebur | Audrey | aropebur | 1550 |
| row(s) 1 - 5 of 5 | | | | | |

3. Display the table with values
select * from MY_EMPLOYEE;

| Results | Explain | Describe | Saved SQL | History | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|-----------|------------|-----------|---------|----|-----------|------------|--------|--------|---|-------|-------|--------|-----|---|-------|-------|--------|-----|---|------|-----|-------|------|---|--------|------|---------|-----|---|---------|--------|----------|------|
| <table> <tr> <th>ID</th><th>LAST_NAME</th><th>FIRST_NAME</th><th>USERID</th><th>SALARY</th></tr> <tr> <td>1</td><td>Patel</td><td>Ralph</td><td>rpatel</td><td>895</td></tr> <tr> <td>2</td><td>Dancs</td><td>Betty</td><td>bdancs</td><td>860</td></tr> <tr> <td>3</td><td>Biri</td><td>Ben</td><td>bbiri</td><td>1100</td></tr> <tr> <td>4</td><td>Newman</td><td>Chad</td><td>Cnewman</td><td>750</td></tr> <tr> <td>5</td><td>Ropebur</td><td>Audrey</td><td>aropebur</td><td>1550</td></tr> </table> | | | | | 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 | Ropebur | Audrey | aropebur | 1550 |
| 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 | Ropebur | Audrey | aropebur | 1550 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 rows returned in 0.04 seconds Download | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

4. Populate the next two rows of data from the sample data. Concatenate the first letter of the first_name with the first seven characters of the last_name to produce Userid. **insert all**
into MY_EMPLOYEE(ID, LAST_NAME, FIRST_NAME, SALARY) values
(6, 'Priyanga', 'Mohan', 7897)
into MY_EMPLOYEE(ID, LAST_NAME, FIRST_NAME, SALARY) values
(7, 'Steve', 'Jack', 9879);

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update MY_EMPLOYEE
set userid= SUBSTR(first_name, 1, 1) || SUBSTR(last_name, 1, 7)

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| EDIT | ID | LAST_NAME | FIRST_NAME | USERID | SALARY |
|-------------------|----|-----------|------------|----------|--------|
| | 1 | Patel | Ralph | rpatel | 895 |
| | 2 | Dancs | Betty | bdancs | 860 |
| | 6 | Steve | Jack | jsteve | 9879 |
| | 7 | Priya | Mohan | pmohan | 7897 |
| | 3 | Biri | Ben | bbiri | 1100 |
| | 4 | Newman | Chad | Cnewman | 750 |
| | 5 | Ropebur | Audrey | aropebur | 1550 |
| row(s) 1 - 7 of 7 | | | | | |

5. Delete Betty dancs from MY_EMPLOYEE table. **delete from MY_EMPLOYEE where LAST_NAME='Dancs';**

1 row(s) deleted.

| EDIT | ID | LAST_NAME | FIRST_NAME | USERID | SALARY |
|-------------------|----|-----------|------------|----------|--------|
| | 1 | Patel | Ralph | rpatel | 895 |
| | 6 | Steve | Jack | jsteve | 9879 |
| | 7 | Priya | Mohan | pmohan | 7897 |
| | 3 | Biri | Ben | bbiri | 1100 |
| | 4 | Newman | Chad | Cnewman | 750 |
| | 5 | Ropebur | Audrey | aropebur | 1550 |
| row(s) 1 - 6 of 6 | | | | | |

6. Empty the fourth row of the emp table.
delete from MY_EMPLOYEE where ID=4;

| EDIT | ID | LAST_NAME | FIRST_NAME | USERID | SALARY |
|-------------------|----|-----------|------------|----------|--------|
| | 1 | Patel | Ralph | rpatel | 895 |
| | 6 | Steve | Jack | jsteve | 9879 |
| | 7 | Priya | Mohan | pmohan | 7897 |
| | 3 | Biri | Ben | bbiri | 1100 |
| | 5 | Ropebur | Audrey | aropebur | 1550 |
| row(s) 1 - 5 of 5 | | | | | |






7. Make the data additions permanent.

commit;






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

update MY_EMPLOYEE set LAST_NAME='Dexler' where ID=3;

1 row(s) updated.

| EDIT | ID | LAST_NAME | FIRST_NAME | USERID | SALARY |
|---|----|-----------|------------|----------|--------|
|  | 1 | Patel | Ralph | rpatel | 895 |
|  | 6 | Steve | Jack | jsteve | 9879 |
|  | 7 | Priya | Mohan | pmohan | 7897 |
|  | 3 | Dexler | Ben | bbiri | 1100 |
|  | 5 | Ropebur | Audrey | aropebur | 1550 |
| row(s) 1 - 5 of 5 | | | | | |

9. Change the salary to 1000 for all the employees with a salary less than 900. **update MY_EMPLOYEE set SALARY=1000 where SALARY<900;**

| EDIT | ID | LAST_NAME | FIRST_NAME | USERID | SALARY |
|---|----|-----------|------------|----------|--------|
|  | 1 | Patel | Ralph | rpatel | 1000 |
|  | 6 | Steve | Jack | jsteve | 9879 |
|  | 7 | Priya | Mohan | pmohan | 7897 |
|  | 3 | Dexler | Ben | bbiri | 1100 |
|  | 5 | Ropebur | Audrey | aropebur | 1550 |
| row(s) 1 - 5 of 5 | | | | | |