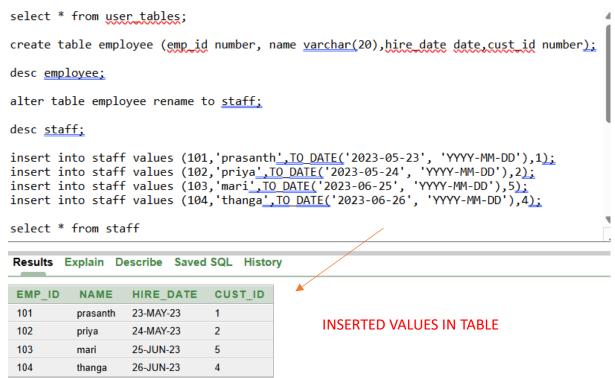# 1.create table and change table name ,update,commit,delete,rollback concepts?

## After created and alter inserted in table:

```
select * from user_tables;

create table employee (emp_id number, name varchar(20),hire_date date,cust_id number);

desc employee;

alter table employee rename to staff;

desc staff;

insert into staff values (101,'prasanth',TO_DATE('2023-05-23', 'YYYY-MM-DD'),1);
insert into staff values (102,'priya',TO_DATE('2023-05-24', 'YYYY-MM-DD'),2);
insert into staff values (103,'mari',TO_DATE('2023-06-25', 'YYYY-MM-DD'),5);
insert into staff values (104,'thanga',TO_DATE('2023-06-26', 'YYYY-MM-DD'),4);

select * from staff
```

**Results**  Explain  Describe  Saved SQL  History

| EMP_ID | NAME | HIRE_DATE | CUST_ID |
|--------|----------|-----------|---------|
| 101 | prasanth | 23-MAY-23 | 1 |
| 102 | priya | 24-MAY-23 | 2 |
| 103 | mari | 25-JUN-23 | 5 |
| 104 | thanga | 26-JUN-23 | 4 |

4 rows returned in 0.00 seconds

INSERTED VALUES IN TABLE

## Updated cust_id=3 value in staff table:

```
update staff set cust_id=3 where emp_id=103

select * from staff

delete from staff where emp_id=103;
select * from staff


commit;

rollback;

drop table staff;
```

Results  Explain  Describe  Saved SQL  History

| EMP_ID | NAME | HIRE_DATE | CUST_ID |
|--------|------|-----------|---------|
| 101 | prasanth | 23-MAY-23 | 1 |
| 102 | priya | 24-MAY-23 | 2 |
| 103 | mari | 25-JUN-23 | 3 |
| 104 | thanga | 26-JUN-23 | 4 |

UPDATED VALUES

4 rows returned in 0.00 seconds

## Commit the table after updating:

```
commit;

rollback;

drop table staff;
```

Results  Explain  Describe  Saved SQL  History

Statement processed.

0.00 seconds

## Delete the emp_id =103 in table:

```
delete from staff where emp_id=103;
select * from staff


commit;

rollback;

drop table staff;
```

### Results  Explain  Describe  Saved SQL  History

| EMP_ID | NAME | HIRE_DATE | CUST_ID |
|--------|------|-----------|---------|
| 101 | prasanth | 23-MAY-23 | 1 |
| 102 | priya | 24-MAY-23 | 2 |
| 104 | thanga | 26-JUN-23 | 4 |

DELETED 103 ROW

3 rows returned in 0.00 seconds


## Rollback is to retrieve deleted data from table but before there shouldn't be commited otherwise rollback wont comes in play…

```
rollback;
```

### Results  Explain  Describe  Saved SQL  History

| EMP_ID | NAME | HIRE_DATE | CUST_ID |
|--------|------|-----------|---------|
| 101 | prasanth | 23-MAY-23 | 1 |
| 102 | priya | 24-MAY-23 | 2 |
| 103 | mari | 25-JUN-23 | 3 |
| 104 | thanga | 26-JUN-23 | 4 |

RESTORED
EMP_ID=103;

4 rows returned in 0.00 seconds

**2.create table and checking how its works:**

create table student(id number,name varchar(20),subject varchar(20),marks number); (table created comes under DDL so AUTOCOMMIT )

insert into student(id, name,subject,marks) values (1001,'jyo','maths',80)(table insert comes under DML so no autocommit)

insert into student(id, name,subject,marks) values (1002,'pras','maths',85) (table insert comes under DML so no autocommit)

insert into student(id, name,subject,marks) values (1003,'master','maths',90) (table insert comes under DML so no autocommit)

select * from student;

create table student1(id number,name varchar(20),subject varchar(20),marks number); (table created comes under DDL so AUTOCOMMIT )

insert into student1(id, name,subject,marks) values (1001,'jyo','maths',80) **(table insert comes under DML so no autocommit)**

insert into student1(id, name,subject,marks) values (1002,'pras','maths',85) **(table insert comes under DML so no autocommit)**

truncate table student1;**(TRUNCATED ONLY MENTIONED TABLE STUDENT1)**

select * from student1;

rollback;**(HERE TABLE1 INSERTION IS NOT COMMIT SO IT WILL ROLLBACK TO EMPTY FOR STUDENT TABLE AND ANOTHER TABLE ALREADY TRUNCATED....)**

create table student2(id number,name varchar(20),subject varchar(20),marks number); (table created comes under DDL so AUTOCOMMIT )

insert into student2(id, name,subject,marks) values (1001,'jyo','maths',80) (table insert comes under DML so no autocommit)

insert into student2(id, name,subject,marks) values (1002,'pras','maths',85) (table insert comes under DML so no autocommit)

commit; (HERE STUDENT2 TABLE IS COMMIT)

select * from student2;

SO, FINALLY

STUDENT TABLE ROLLBACK

STUDENT1 TABLE TRUNCATED

STUDENT2 TABLE COMMIT