**Assignment 1: create a product table with necessary attribute. Write a query for table creation, insert the product data into the table. Write a query to retrieve all the product details. Write a query to retrieve id and product name. Write a query to update and delete the product**

//query for table creation

CREATE TABLE Products (

product\_id NUMBER PRIMARY KEY,

product\_name VARCHAR2(100) NOT NULL,

description VARCHAR2(255),

price NUMBER(10, 2),

in\_stock NUMBER(5),

created\_date DATE DEFAULT SYSDATE

);

//Inserting sample data into Products table

INSERT INTO Products (product\_id, product\_name, description, price, in\_stock)

VALUES (1, 'Laptop', 'High-performance laptop with SSD', 1200.00, 10);

INSERT INTO Products (product\_id, product\_name, description, price, in\_stock)

VALUES (2, 'Smartphone', 'Latest model with 5G support', 800.00, 20);

INSERT INTO Products (product\_id, product\_name, description, price, in\_stock)

VALUES (3, 'Tablet', '10-inch tablet with stylus', 500.00, 15);

SELECT \* FROM Products;

SELECT product\_id, product\_name

FROM Products;

//Update the price of the Laptop (product\_id = 1)

UPDATE Products

SET price = 1300.00

WHERE product\_id = 1;

// Delete the Tablet (product\_id = 3)

DELETE FROM Products

WHERE product\_id = 3;

**Assignment 2: Write a Sql queries to Perform DDL operation for product entity. Perform create table, drop table, alter table, rename table queries for the product entity.**

create table product

(

id number(10),

name varchar2(30),

category varchar2(30),

price number(10,3)

);

insert into product values(1, 'laptop', 'electronics', 70000);

insert into product values(2, 'mobile', 'electronics', 40000);

insert into product values(3, 'tablet', 'electronics', 60000);

insert into product values(4, 'headphones', 'electronics', 50000);

insert into product values(5, 'camera', 'electronics', 80000);

drop table product;

alter table product;

rename category to cat;

**Assignment 3:- Write a query to find the product whose category is electronics. find all the product whose price range is between 5000 and 10000. display name and price from product table. display all the electronic category item which has price more than 2000. sort the** **product based on price in descending order.sort the product based on name. count of product based on category. display all the product except electronics category.**

//product whose category is electronics

select \*from product where category='electronics';

//all the product whose range is between 5000 and 1000

select \* from product where price between 5000 and 10000;

//display name and price from product table

select name,price from product;

//display all the electronic category item which has price more than 2000

select \*from product where category='electronic' and price>2000;

//sort the product based on price in descending order

select \*from product order by price desc;

//sort the product based on name

select \*from product order by name;

//count of product based on category

select count(category) from product;

//display all product except electronics category

select \*from product where category != 'electronics';