TASK 1 :

create database Assessment;

use Assessment;

create table products (

ProductID int ,

ProductName varchar(30) primary key,

SupplierID int,

CategoryID int,

QuantityPerUnit varchar(30),

UnitPrice int ,

UnitsInStock int,

UnitsOnOrder int,

ReorderLevel int,

Discontinued varchar(20)

);

insert into products values

(1,'Bat',123,1,'20 units',10000,10,10,5,'no'),

(2,'Ball',124,2,'15 units',5000,8,7,3,'yes'),

(3,'Stumps',125,3,'10 units',3000,5,5,6,'yes'),

(4,'gloveses',123,4,'16 units',3000,8,8,9,'yes');

select \* from products;

select ProductName, QuantityPerUnit from products;

select ProductName, QuantityPerUnit from products where Discontinued='yes';

select ProductName, QuantityPerUnit from products where Discontinued='no';

select max(UnitPrice) from products where ProductName ;

select min(UnitPrice) from products;

select productId,ProductName,UnitPrice from products where unitPrice<20 and Discontinued='yes';

select ProductName, UnitPrice

FROM products

where UnitPrice = (SELECT MAX(UnitPrice) FROM products) and (select min(UnitPrice) from products);

select ProductName, UnitPrice from products where Unitprice= (select min(unitprice) from products) ;

TASK 2 :

create database task2;

use task2;

create table departments (

department\_id int primary key,

department\_name varchar(30),

location\_id int

);

insert into departments (department\_id, department\_name, location\_id) values

(1, 'HR', 101),

(2, 'Finance', 102),

(3, 'IT', 103),

(4, 'Marketing', 104),

(5, 'Sales', 105),

(6, 'Customer Support', 106),

(7, 'Development', 107),

(8, 'Logistics', 108),

(9, 'Operations', 109),

(10, 'Legal', 110),

(11, 'Procurement', 111),

(12, 'Public Relations', 112),

(13, 'Training & Development', 113),

(14, 'Administration', 114),

(15, 'Security', 115),

(16, 'QA', 116);

create table employees (

employee\_id int primary key,

first\_name varchar(20),

last\_name varchar(25),

email varchar(50) unique,

phone\_number bigint,

hire\_date date,

job\_id varchar(10),

salary int,

commission\_pct int,

department\_id int,

foreign key(department\_id) references departments(department\_id)

);

insert into employees (employee\_id, first\_name, last\_name, email, phone\_number, hire\_date, job\_id, salary, commission\_pct, department\_id)

values

(1, 'Rama', 'Krishna', 'rama.krishna@example.com', 9876543101, '2023-02-01', 'ci123', 50000, 10, 1),

(2, 'Sai', 'Teja', 'sai.teja@example.com', 9876543102, '2022-03-15', 'ci124', 60000, 12, 3),

(3, 'Venkatesh', 'Babu', 'venky.babu@example.com', 9876543103, '2021-05-20', 'ci125', 70000, 15, 2),

(4, 'Chaitanya', 'Varma', 'chaitu.varma@example.com', 9876543104, '2020-07-10', 'ci126', 48000, 8, 4),

(5, 'Anusha', 'Reddy', 'anusha.reddy@example.com', 9876543105, '2019-09-30', 'ci127', 52000, 7, 5),

(6, 'Mounika', 'Devi', 'mounika.devi@example.com', 9876543106, '2018-11-22', 'ci128', 51000, 6, 6),

(7, 'Naveen', 'Kumar', 'naveen.kumar@example.com', 9876543107, '2017-12-05', 'ci129', 67000, 10, 7),

(8, 'Sravani', 'Goud', 'sravani.goud@example.com', 9876543108, '2016-08-14', 'ci130', 59000, 11, 8),

(9, 'Harsha', 'Vardhan', 'harsha.v@example.com', 9876543109, '2015-06-19', 'ci131', 62000, 13, 9),

(10, 'Lakshmi', 'Prasanna', 'lakshmi.prasanna@example.com', 9876543110, '2014-04-23', 'ci132', 71000, 12, 10),

(11, 'Rajesh', 'Naidu', 'rajesh.naidu@example.com', 9876543111, '2013-02-10', 'ci133', 49000, 9, 11),

(12, 'Divya', 'Bhavani', 'divya.bhavani@example.com', 9876543112, '2012-01-28', 'ci134', 53000, 6, 12),

(13, 'Surya', 'Narayana', 'surya.narayana@example.com', 9876543113, '2011-12-15', 'ci135', 56000, 7, 13),

(14, 'Sandhya', 'Rani', 'sandhya.rani@example.com', 9876543114, '2010-10-01', 'ci136', 51000, 5, 14),

(15, 'Vishnu', 'Mohan', 'vishnu.mohan@example.com', 9876543115, '2009-09-15', 'ci137', 45000, 3, 15),

(16, 'Pavan', 'Kalyan', 'pavan.kalyan@example.com', 9876543116, '2008-08-20', 'ci138', 58000, 10, 16),

(17, 'Meghana', 'Shree', 'meghana.shree@example.com', 9876543117, '2007-07-05', 'ci139', 62000, 14, 3),

(18, 'Tarun', 'Sai', 'tarun.sai@example.com', 9876543118, '2006-06-17', 'ci140', 74000, 15, 1),

(19, 'Sowmya', 'Lakshmi', 'sowmya.lakshmi@example.com', 9876543119, '2005-05-30', 'ci412', 69000, 11, 2),

(20, 'Bharath', 'Simha', 'bharath.simha@example.com', 9876543120, '2004-04-15', 'ci142', 48000, 8, 4);

select \* from employees;

select \* from department;

#1.Select employees first name, last name, job\_id and salary whose first name starts with alphabet S.

select first\_name, last\_name, job\_id, salary from employees where first\_name like 'S%';

#Write a query to select employee with the highest salary

select max(salary) from employees;

#3.Select employee with the second highest salary

select max(salary) from employees where salary < (select max(salary) from employees);

#7.Find the count of employees in each department.

select department\_id, COUNT(\*) as employee\_count from employees group by department\_id;

#11.Select the employees whose first\_name contains “an”.

select first\_name, last\_name from employees where first\_name like '%an%';

#16.Write a SQL query to display the 5 least earning employees.

select first\_name, last\_name, salary from employees order by salary asc limit 5;