TASK -1 : Create Database: Practices

Note: Use Create SQL statement for creating table.

tblProduct:

Column Name Data Type Constraint Description

Prd\_ID Int Primary Key Auto Increment

Prd\_Name Varchar(25)

Recommended\_Price Varchar(25)

Category Varchar(25)

ans: tblproduct

CREATE DATABASE tblproduct

CREATE TABLE product

(

prd\_id int(10) PRIMARY KEY AUTO\_INCREMENT,

prd\_name varchar(25),

recommanded\_price varchar(25),

catagaris varchar(25)

);

tblCustomer:

Column Name Data Type Constraint Description

CustomerID Int Primary Key Auto Increment

FirstName Varchar(25)

LastName Varchar(25)

City Varchar(25)

State Varchar(25)

Zip Varchar(25)

ans:tbl customer

creat tabale customer

CREATE TABLE customer

(

CustomerID int PRIMARY KEY AUTO\_INCREMENT,

Firstname varchar(25),

lastname varchar(25),

city varchar(25),

state varchar(25),

zip varchar(25)

);

tblSales

Column Name Data Type Constraint Description

Sales\_ID Int Primary Key Auto Increment

Prd\_ID Int Foreign Key

Cust\_Id Int Foreign Key

SalesPrice Varchar(25)

SalesDate Date

CREATE TABLE sales

(

sales\_id int PRIMARY KEY AUTO\_INCREMENT,

salesprice varchar(25),

salesdate date,

prd\_id int(10),

customerid int(10),

FOREIGN KEY(prd\_id) REFERENCES customer(customerid),

FOREIGN KEY(customerid) REFERENCES product(prd\_id)

);

creat database task2

CREATE TABLE employee

(

empid int(20) PRIMARY KEY AUTO\_INCREMENT,

empname varchar(200),

department varchar(200),

contactNo varchar(200),

Emailid varchar(200),

Empheadid varchar(200)

)

INSERT INTO employee(empid,empname,department,contactNo,Emailid,Empheadid) VALUES(102, "Priya", "E-104", "1234567890", "priya@yahoo.com" 103);

INSERT INTO employee(empid,empname,department,contactNo,Emailid,Empheadid) VALUES(103, "Neha", "E-101", "1234567890", "neha@gmail.com", 101);

INSERT INTO employee(empid,empname,department,contactNo,Emailid,Empheadid) VALUES(104, "Rahul", "E-102", "1234567890", "rahul@yahoo.com", 105);

INSERT INTO employee(empid,empname,department,contactNo,Emailid,Empheadid) VALUES(105, "Abhishek", "E-101", "1234567890", "abhishek@gmail.com", 102);

CREATE TABLE EmpDept

(

DeptId varchar PRIMARY KEY AUTO\_INCREMENT,

DeptName varchar(200),

Dept\_off varchar(200),

DeptHead varchar(200)

)

INSERT INTO empdept(DeptId,DeptName,Dept\_off,DeptHead) VALUES("E-101","HR","Monday","105");

INSERT INTO empdept(DeptId,DeptName,Dept\_off,DeptHead) VALUES("E-102","Development","Tuesday","101");

INSERT INTO empdept(DeptId,DeptName,Dept\_off,DeptHead) VALUES("E-103","Hous Keeping","Saturday","103");

INSERT INTO empdept(DeptId,DeptName,Dept\_off,DeptHead) VALUES("E-104","Sales","Sunday","104");

INSERT INTO empdept(DeptId,DeptName,Dept\_off,DeptHead) VALUES("E-105","Purchage","Tuesday","104")

CREATE TABLE empsalary

(

empID int PRIMARY KEY AUTO\_INCREMENT,

FOREIGN KEY (empID) REFERENCES employee(empid),

salary varchar (200),

IsParmanent varchar(200)

)

CREATE TABLE project

(

projectid varchar(200),

Duration varchar(200),

DeptId int(10),

FOREIGN KEY(DeptId) REFERENCES employee(empid)

)

INSERT INTO project(projectid,Duration) VALUES("P-1","23");

INSERT INTO project(projectid,Duration) VALUES("P-2","15");

INSERT INTO project(projectid,Duration) VALUES("P-3","45");

INSERT INTO project(projectid,Duration) VALUES("P-4","2");

INSERT INTO project(projectid,Duration) VALUES("P-5","30");

CREATE TABLE country

(

cid varchar(200) PRIMARY KEY,

cname varchar(200)

)

INSERT INTO country(cid,cname) VALUES('c-1','India');

INSERT INTO country(cid,cname) VALUES('c-2','USA');

INSERT INTO country(cid,cname) VALUES('c-3','Chaina');

INSERT INTO country(cid,cname) VALUES('c-4','Pakistan');

INSERT INTO country(cid,cname) VALUES('c-5','Russia');

CREATE TABLE clienttable

(

ClientId varchar primary key(200),

ClientName varchar(200),

cid varchar(200),

FOREIGN KEY(cid) REFERENCES country(cid)

)

INSERT INTO clienttable(ClientId,ClientName,cid) VALUES("cl-1","ABC Group","c-1");

INSERT INTO clienttable(ClientId,ClientName,cid) VALUES("cl-2","PQR","c-2");

INSERT INTO clienttable(ClientId,ClientName,cid) VALUES("cl-3","XYZ","c-3");

INSERT INTO clienttable(ClientId,ClientName,cid) VALUES("cl-4","tech altum","c-4");

INSERT INTO clienttable(ClientId,ClientName,cid) VALUES("cl-5","mnp","c-5");

CREATE TABLE empproject

(

empid int,

projectid varchar(200),

ClientId varchar(200),

FOREIGN KEY(ClientId) REFERENCES clienttable(ClientId),

StartYear year(4),

EndYear year(4)

)

INSERT INTO empproject(empid,projectid,ClientId,StartYear,EndYear) VALUES(101,'p-1','cl-1','2010','2010');

INSERT INTO empproject(empid,projectid,ClientId,StartYear,EndYear) VALUES(102,'p-2','cl-2','2010','2012');

INSERT INTO empproject(empid,projectid,ClientId,StartYear,EndYear) VALUES(103,'p-1','cl-3','2013','');

INSERT INTO empproject(empid,projectid,ClientId,StartYear,EndYear) VALUES(104,'p-4','cl-1','2014','2015');

INSERT INTO empproject(empid,projectid,ClientId,StartYear,EndYear) VALUES(105,'p-4','cl-5','2015','');

Queries :

1) Select the detail of the employee whose name start with P.

ans:-SELECT \* FROM employee WHERE empname LIKE 'p%'

2) How many permanent candidate take salary more than 5000.

ans:-select count(salary) as count from empsalary where IsParmanent='yes' and salary>5000

ans=count-1

3) Select the detail of employee whose emailed is in Gmail.

ans:-select \* from employee where Emailid like '%@gmail.com'

4) Select the details of the employee who work either for department E-104 or E-102.

ans:-select \* from employee where department in ('E-102','E-104')

OR

select \* from employee where department='E-102' or department='E-104'

5) What is the department name for DeptID E-102?

ans:-SELECT DeptName from empdept WHERE DeptId='E-102'

6) What is total salary that is paid to permanent employees?

ans:-SELECT sum(salary) AS salary from empsalary WHERE IsParmanent='yes'

7) List name of all employees whose name ends with a.

ans:-SELECT \* FROM employee WHERE empname LIKE '%a'

8) List the number of department of employees in each project

ans:-SELECT COUNT(empid) AS employee,projectid FROM empproject GROUP BY projectid

9) How many project started in year 2010.

ans:-SELECT COUNT(projectid) as project FROM empproject WHERE StartYear=2010

10) How many project started and finished in the same year.

ans:-SELECT COUNT(projectid) as project FROM empproject WHERE StartYear=EndYear

11) Select the name of the employee whose name's 3rd character is 'h'.

ans:-SELECT \* FROM employee WHERE empname LIKE '\_\_h%';

12) Select the department name of the company which is assigned to the employee whose employee id is

grater 103.

ans:-select deptname from empdept where deptid in (select department from employee where empid>103)

13) Select the name of the employee who is working under Abhishek.

ans:-select empname from employee where empheadid =(select empid from employee where empname='abhishek')

14) Select the name of the employee who is department head of HR.

ans:-SELECT empname FROM employee WHERE empid =(SELECT depthead FROM empdept WHERE deptname="hr")

15) Select the name of the employee head who is permanent.

ans:-SELECT empname FROM employee WHERE empID IN(SELECT Empheadid from employee) and empid IN(SELECT empid FROM empsalary WHERE IsParmanent='yes')

16) Select the name and email of the Dept Head who is not Permanent.

SELECT empid,Emailid FROM employee WHERE empid in(SELECT depthead FROM empdept ) AND empid IN(SELECT empid FROM empsalary WHERE IsParmanent='no')

17) Select the employee whose department off is Monday

ans:-select \* from employee where department in(select deptid from empdept where dept\_off='monday')

18) select the Indian clients details.

ans:-select \* from clienttable where cid in(select cid from country where cname='india')

19) select the details of all employee working in development department.

ans:-select \* from employee where department in(select deptid from empdept where deptname='development')