Ezra Muir – August 09 Assignment Employee Tables

USE HelloWorld;

DROP TABLE IF EXISTS Employee;

DROP TABLE IF EXISTS Employee\_personal;

CREATE TABLE Employee

(

EMPID INT PRIMARY KEY NOT NULL,

NAME VARCHAR(50) NOT NULL,

COUNTRY VARCHAR(50) NOT NULL,

SALARY DECIMAL(8,2) NOT NULL,

JOINING\_DATE DATETIME NOT NULL,

DEPARTMENT VARCHAR(50) NOT NULL

);

-- CREATING ANOTHER TABLE - Employee\_personal

CREATE TABLE Employee\_personal

(

EMPID INT PRIMARY KEY NOT NULL,

NAME VARCHAR(50) NOT NULL,

PLACE VARCHAR(50) NOT NULL,

GENDER VARCHAR(50) NOT NULL,

AVAILABLE VARCHAR(50) NOT NULL,

PHNO VARCHAR(50) NOT NULL,

DEPARTMENT VARCHAR(50) NOT NULL

);

INSERT INTO

Employee

(EMPID, NAME, COUNTRY, SALARY, JOINING\_DATE, DEPARTMENT)

VALUES

(001, 'Shippy', 'Jamaica', 100000, '2022-02-20 09:00:00', 'S/W Engg-A'),

(002, 'Christopher', 'Jamaica', 800000, '2022-06-11 09:00:00', 'S/W Engg'),

(003, 'Alanzo', 'India', 300000, '2022-02-20 09:00:00', 'S/W Engg'),

(004, 'Ezra', 'Jamaica', 500000, '2022-02-20 09:00:00', 'S/W Engg-C'),

(005, 'Grant', 'India', 500000, '2022-06-11 09:00:00', 'S/W Engg'),

(006, 'Olando', 'Jamaica', 200000, '2022-06-11 09:00:00', 'S/W Engg'),

(007, 'Camille', 'India', 705000, '2022-01-20 09:00:00', 'S/W Engg-B'),

(008, 'Donald', 'India', 900000, '2022-04-11 09:00:00', 'S/W Engg');

INSERT INTO

Employee\_personal

(EMPID, NAME, PLACE, GENDER, AVAILABLE, PHNO, DEPARTMENT)

VALUES

(001, 'Shippy', 'Kingston', 'Male', 'Yes', '(876) 987-8346', 'S/W Engg-A'),

(002, 'Christopher', 'Montego Bay', 'Male', 'No', '(876) 785-6346', 'S/W Engg'),

(003, 'Alanzo', 'New Delhi', 'Male', 'Yes', '(876) 864-5346', 'S/W Engg'),

(004, 'Ezra', 'Saint James', 'Male', 'Yes', '(876) 879-5346', 'S/W Engg-C'),

(005, 'Grant', 'Chennai', 'Male', 'No', '(876) 956-8346', 'S/W Engg'),

(006, 'Olando', 'Portmore', 'Male', 'Yes', '(876) 849-4346', 'S/W Engg'),

(007, 'Camille', 'Coimbatore', 'Female', 'No', '(876) 987-5346', 'S/W Engg-B'),

(008, 'Donald', 'Udumalper', 'Male', 'No', '(876) 895-4346', 'S/W Engg');

-- SQL Query

SELECT \*

FROM Employee;

-- Question 1

SELECT NAME

FROM Employee;

-- Question 2

SELECT UPPER(NAME) AS 'Upper Case Names'

FROM Employee;

-- Question 3

SELECT DISTINCT DEPARTMENT

FROM Employee;

-- Question 4

SELECT SUBSTRING(NAME, 1, 3)

FROM Employee;

-- Question 5

SELECT NAME, CHARINDEX('a', 'Alanzo') AS 'Index of a', LEN('Alanzo')-LEN(REPLACE('Alanzo','a','')) AS 'Number of a'

FROM Employee

WHERE NAME='Alanzo';

SELECT NAME, CHARINDEX('a', 'Ezra') AS 'Position At'

FROM Employee

WHERE NAME='Ezra';

-- Question 6

EXEC sp\_rename 'Employee.SALARY', 'BASIC\_PAY', 'COLUMN';

-- Question 7

ALTER TABLE Employee

ADD DA DECIMAL(8,2),

DEDUCTIONS DECIMAL(8,2),

GROSS\_PAY DECIMAL(8,2),

NET\_PAY DECIMAL(8,2);

-- insert data into DA, DEDUCTIONS, GROSS PAY, NET PAY. The formula is: DA = 2% OF BASIC\_PAY, DEDUCTIONS = 3% OF BASIC\_PAY, GROSS\_PAY = BASIC\_PAY - DA, NET\_PAY = GROSS\_PAY - DEDUCTIONS

UPDATE Employee

SET DA = 0.02 \* BASIC\_PAY,

DEDUCTIONS = 0.03 \* BASIC\_PAY;

UPDATE Employee

SET GROSS\_PAY = BASIC\_PAY - DA;

UPDATE Employee

SET NET\_PAY = GROSS\_PAY - DEDUCTIONS;

-- Question 8

-- employee with the highest net pay

SELECT NAME, NET\_PAY

FROM Employee

WHERE NET\_PAY = (SELECT MAX(NET\_PAY)

FROM Employee);

-- Question 9

-- employee with the lowest net pay

SELECT NAME, NET\_PAY

FROM Employee

WHERE NET\_PAY = (SELECT MIN(NET\_PAY)

FROM Employee);

-- Question 10

-- average basic pay of all employees

SELECT AVG(BASIC\_PAY) AS 'Average BASIC\_PAY'

FROM Employee;

-- Question 11

-- average DA of all employees

SELECT AVG(DA) AS 'Average DA'

FROM Employee;

-- QUERIES FOR JOINING

SELECT

\*

FROM

Employee\_personal

ORDER BY NAME DESC;

-- Question 17

SELECT

e.EMPID, e.NAME, ep.PLACE, ep.PHNO

FROM

Employee e

INNER JOIN Employee\_personal ep

ON e.NAME = ep.NAME

ORDER BY

NAME DESC;

-- Question 18

SELECT

e.NAME, e.COUNTRY, ep.PLACE, ep.AVAILABLE

FROM

Employee e

INNER JOIN Employee\_personal ep

ON e.EMPID = ep.EMPID

WHERE

ep.AVAILABLE = 'Yes'

ORDER BY

NAME DESC;

-- Question 19

SELECT

e.NAME, e.BASIC\_PAY, e.DEPARTMENT, ep.PLACE

FROM

Employee e

INNER JOIN Employee\_personal ep

ON e.EMPID = ep.EMPID

WHERE

ep.PLACE = 'Coimbatore'

ORDER BY

NAME DESC;

-- Question 20

SELECT

e.NAME, ep.PHNO, ep.GENDER, e.DEPARTMENT

FROM

Employee e

INNER JOIN Employee\_personal ep

ON e.NAME = ep.NAME

WHERE

e.DEPARTMENT = 'S/W Engg'

ORDER BY

NAME DESC;