**HEXAWARE CAESE STYDY **

**PayXpert, The Payroll Management System**

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**DATABASE-MySQL**

**Employee Table**

CREATE TABLE Employee (

EmployeeID INT PRIMARY KEY AUTO\_INCREMENT,

FirstName VARCHAR(50) NOT NULL,

LastName VARCHAR(50) NOT NULL,

DateOfBirth DATE NOT NULL,

Gender VARCHAR(10) NOT NULL,

Email VARCHAR(100) NOT NULL UNIQUE,

PhoneNumber VARCHAR(15) NOT NULL,

Address VARCHAR(255),

Position VARCHAR(50) NOT NULL,

JoiningDate DATE NOT NULL,

TerminationDate DATE

);

**Payroll Table**

CREATE TABLE Payroll (

PayrollID INT PRIMARY KEY AUTO\_INCREMENT,

EmployeeID INT,

PayPeriodStartDate DATE NOT NULL,

PayPeriodEndDate DATE NOT NULL,

BasicSalary DECIMAL(10, 2) NOT NULL,

OvertimePay DECIMAL(10, 2),

Deductions DECIMAL(10, 2),

NetSalary DECIMAL(10, 2) NOT NULL,

FOREIGN KEY (EmployeeID) REFERENCES Employee(EmployeeID)

);

**Tax Table**

CREATE TABLE Tax (

TaxID INT PRIMARY KEY AUTO\_INCREMENT,

EmployeeID INT,

TaxYear INT NOT NULL,

TaxableIncome DECIMAL(10, 2) NOT NULL,

TaxAmount DECIMAL(10, 2) NOT NULL,

FOREIGN KEY (EmployeeID) REFERENCES Employee(EmployeeID)

);

**FinancialRecord Table**

CREATE TABLE FinancialRecord (

RecordID INT PRIMARY KEY AUTO\_INCREMENT,

EmployeeID INT,

RecordDate DATE NOT NULL,

Description VARCHAR(255) NOT NULL,

Amount DECIMAL(10, 2) NOT NULL,

RecordType VARCHAR(50) NOT NULL,

FOREIGN KEY (EmployeeID) REFERENCES Employee(EmployeeID)

);

**DUMMY RECORDS**

**Insert into Employee Table**

INSERT INTO Employee (FirstName, LastName, DateOfBirth, Gender, Email, PhoneNumber, Address, Position, JoiningDate, TerminationDate)

VALUES

('Tony', 'Stark', '1970-05-29', 'Male', 'tony.stark@avengers.com', '1234567890', '10880 Malibu Point, Malibu', 'CEO', '2010-01-01', NULL),

('Steve', 'Rogers', '1918-07-04', 'Male', 'steve.rogers@avengers.com', '2345678901', '569 Leaman Place, Brooklyn', 'Captain', '1945-01-01', NULL),

('Bruce', 'Banner', '1969-12-18', 'Male', 'bruce.banner@avengers.com', '3456789012', '177A Bleecker Street, New York', 'Scientist', '2012-05-04', NULL),

('Natasha', 'Romanoff', '1984-11-22', 'Female', 'natasha.romanoff@avengers.com', '4567890123', 'Avengers Facility, New York', 'Spy', '2010-06-01', '2019-04-26'),

('Clint', 'Barton', '1971-01-07', 'Male', 'clint.barton@avengers.com', '5678901234', 'Waverly, Iowa', 'Agent', '2012-07-01', NULL),

('Thor', 'Odinson', '1500-08-15', 'Male', 'thor.odinson@asgard.com', '6789012345', 'Asgard', 'King', '2011-05-01', NULL),

('Peter', 'Parker', '2001-08-10', 'Male', 'peter.parker@avengers.com', '7890123456', 'Queens, New York', 'Intern', '2016-09-01', NULL),

('Wanda', 'Maximoff', '1989-02-10', 'Female', 'wanda.maximoff@avengers.com', '8901234567', 'Sokovia', 'Witch', '2015-04-01', NULL),

('Stephen', 'Strange', '1976-11-18', 'Male', 'stephen.strange@avengers.com', '9012345678', '177A Bleecker Street, New York', 'Sorcerer', '2016-10-01', NULL),

('TChalla', '', '1980-11-29', 'Male', 'tchalla@wakanda.com', '0123456789', 'Wakanda', 'King', '2016-02-01', NULL);

**Insert into Payroll Table**

INSERT INTO Payroll (EmployeeID, PayPeriodStartDate, PayPeriodEndDate, BasicSalary, OvertimePay, Deductions, NetSalary)

VALUES

(1, '2024-09-01', '2024-09-30', 10000.00, 500.00, 1000.00, 9500.00),

(2, '2024-09-01', '2024-09-30', 8000.00, 300.00, 700.00, 7600.00),

(3, '2024-09-01', '2024-09-30', 12000.00, 400.00, 1500.00, 10900.00),

(4, '2024-09-01', '2024-09-30', 9000.00, 200.00, 900.00, 8300.00),

(5, '2024-09-01', '2024-09-30', 7500.00, 250.00, 500.00, 7250.00),

(6, '2024-09-01', '2024-09-30', 15000.00, 1000.00, 2000.00, 14000.00),

(7, '2024-09-01', '2024-09-30', 6000.00, 100.00, 300.00, 5800.00),

(8, '2024-09-01', '2024-09-30', 11000.00, 450.00, 1300.00, 10150.00),

(9, '2024-09-01', '2024-09-30', 13000.00, 600.00, 1600.00, 12000.00),

(10, '2024-09-01', '2024-09-30', 14000.00, 800.00, 1700.00, 13100.00);

**Insert into Tax Table**

INSERT INTO Tax (EmployeeID, TaxYear, TaxableIncome, TaxAmount)

VALUES

(1, 2024, 120000.00, 24000.00),

(2, 2024, 96000.00, 19200.00),

(3, 2024, 144000.00, 28800.00),

(4, 2024, 108000.00, 21600.00),

(5, 2024, 90000.00, 18000.00),

(6, 2024, 180000.00, 36000.00),

(7, 2024, 72000.00, 14400.00),

(8, 2024, 132000.00, 26400.00),

(9, 2024, 156000.00, 31200.00),

(10, 2024, 168000.00, 33600.00);

**Insert into FinancialRecord Table**

INSERT INTO FinancialRecord (EmployeeID, RecordDate, Description, Amount, RecordType)

VALUES

(1, '2024-09-30', 'Salary Payment', 9500.00, 'Income'),

(2, '2024-09-30', 'Salary Payment', 7600.00, 'Income'),

(3, '2024-09-30', 'Salary Payment', 10900.00, 'Income'),

(4, '2024-09-30', 'Salary Payment', 8300.00, 'Income'),

(5, '2024-09-30', 'Salary Payment', 7250.00, 'Income'),

(6, '2024-09-30', 'Salary Payment', 14000.00, 'Income'),

(7, '2024-09-30', 'Salary Payment', 5800.00, 'Income'),

(8, '2024-09-30', 'Salary Payment', 10150.00, 'Income'),

(9, '2024-09-30', 'Salary Payment', 12000.00, 'Income'),

(10, '2024-09-30', 'Salary Payment', 13100.00, 'Income');