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CREATE TABLE employee_salary_details (
    payment_done BOOLEAN NOT NULL,
    month TEXT NOT NULL,
    month_date DATE NOT NULL,
    year INT NOT NULL,
    relationship_type TEXT NOT NULL,
    employee_id TEXT NOT NULL,
    employee_name TEXT NOT NULL,
    doj DATE NOT NULL,
    basic_salary NUMERIC(10,2) NOT NULL,
    hra NUMERIC(10,2) NOT NULL,
    conveyance_allowances NUMERIC(10,2) DEFAULT 0,
    medical_reimbursement NUMERIC(10,2) DEFAULT 0,

    -- Auto Calculation
    gross_salary NUMERIC(10,2) DEFAULT 0,
    pf NUMERIC(10,2) DEFAULT 0 CHECK (pf >= 0),
    tds NUMERIC(10,2) DEFAULT 0 CHECK (tds >= 0),
    advance_payback NUMERIC(10,2) DEFAULT 0 CHECK (advance_payback >= 0),
    total_deductions NUMERIC(10,2) DEFAULT 0,
    net_payable_salary NUMERIC(10,2) DEFAULT 0,

    remarks TEXT,

    -- Foreign Key Constraint
    CONSTRAINT fk_employee FOREIGN KEY (employee_id)
    REFERENCES employee_list (employee_id)
    ON UPDATE CASCADE ON DELETE CASCADE
);

-- Create a trigger to automatically calculate salaries
CREATE FUNCTION calculate_salaries() RETURNS TRIGGER AS $$
BEGIN
    -- Calculate Gross Salary
    NEW.gross_salary := NEW.basic_salary + NEW.hra + NEW.conveyance_allowances + NEW.medical_reimbursement;

    -- Calculate Total Deductions
    NEW.total_deductions := NEW.pf + NEW.tds + NEW.advance_payback;

    -- Calculate Net Payable Salary
    NEW.net_payable_salary := NEW.gross_salary - NEW.total_deductions;

    RETURN NEW;
END;
$$ LANGUAGE plpgsql;

-- Attach the trigger to salary_details table
CREATE TRIGGER salary_calc_trigger
BEFORE INSERT OR UPDATE ON employee_salary_details
FOR EACH ROW
EXECUTE FUNCTION calculate_salaries();

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INSERT INTO employee_salary_details
(payment_done, month, month_date, year, relationship_type, employee_id, employee_name, doj, basic_salary, hra, conveyance_allowances,
medical_reimbursement, pf, tds, advance_payback, remarks)
VALUES
(true, 'March', '2025-03-01', 2025, 'Permanent', 'E9', 'Arun Kumar', '2021-06-15', 40000, 20000, 5000, 5000, 4000, 3000, 2000, 'Salary
processed'),
(true, 'March', '2025-03-01', 2025, 'Contract', 'E7', 'Ravi Shankar', '2022-02-20', 35000, 18000, 4000, 4000, 3500, 2500, 1500, 'Pending TDS
deduction');

select * from employee_salary_details;

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