

Schema to be used for Milestone 2

Department (name: varchar (50), building_location: varchar (50))

Employee (employee_ID: int, first_name: varchar (50), last_name: varchar (50), email: varchar (50), password: varchar (50), address: varchar (50), gender char (1), official_day_off: varchar (50), years_of_experience: int, national_ID: char (16), employment_status: varchar (50), type_of_contract: varchar (50), emergency_contact_name: varchar (50), emergency_contact_phone: char (11), annual_balance: int, accidental_balance: int, salary decimal(10,2), hire_date: date, last_working_date: date, dept_name varchar (50) (FK))

Employee.dept_name references Department.name

Employee_Phone (emp_ID int (FK), phone_num: char (11))

Employee_Phone.emp_ID references Employee.employee_ID

Role (role_name: varchar (50), title: varchar (50), description: varchar (50), rank: int, base_salary: decimal (10,2), percentage_YOE: decimal (4,2), percentage_overtime: decimal (4,2), annual_balance: int, accidental_balance: int)

Employee_Role (emp_ID int (FK), role_name varchar(50) (FK))

Employee_Role.emp_ID references Employee.employee_ID

Employee_Role.role_name references Role.role_name

Role_existsIn_Department (department_name (FK), Role_name (FK))

Role_existsIn_Department.department_name references Department.name
Role_existsIn_Department.Role_name references Role.role_name

Leave (request_ID: int, date_of_request: date, start_date: date, end_date: date, num_days, final_approval_status: varchar (50))

Where num_days = end_date - start_date + 1

Annual_Leave (request_ID int (FK), emp_ID int (FK), replacement_emp int (FK))

Annual_Leave.emp_ID references Employee.employee_ID

Annual_Leave.request_ID references Leave.request_ID

Annual_Leave.replacement_emp references employee.employee_ID

Accidental_Leave (request_ID int (FK), emp_ID int (FK))

Accidental_Leave.emp_ID references Employee.employee_ID
Accidental_Leave.request_ID references Leave.request_ID

Medical_Leave (request_ID int (FK), insurance_status: BIT, disability_details: varchar (50), type: varchar (50), Emp_ID int (FK))

Medical_Leave.emp_ID references Employee.employee_ID

Medical_Leave.request_ID references Leave.request_ID

Unpaid_Leave (request_ID int (FK), Emp_ID int (FK))

Unpaid_Leave.request_ID references Leave.request_ID

Unpaid_Leave.emp_ID references Employee.employee_ID

Compensation_Leave (request_ID int (FK), reason: varchar (50),

date_of_original_workday: date, emp_ID int (FK), replacement_emp int

(FK))

Compensation_Leave.request_ID references Leave.request_ID

Compensation_Leave.Emp_id references Employee.employee_ID

Compensation_Leave.replacement_emp references Employee.employee_ID

Document (document_ID: int, type: varchar (50), description: varchar (50), file_name: varchar (50), creation_date: date, expiry_date: date, status: varchar (50), emp_ID int (FK), medical_ID int (FK), unpaid_ID int (FK))

Document.emp_ID references Employee.employee_ID

Document.medical_ID references medical_leave.request_ID

Document.unpaid_ID references unpaid_leave.request_ID

Payroll (ID: int, payment_date: date, final_salary_amount: decimal (10,1), from_date: date, to_date: date, comments: varchar (150), bonus_amount: decimal (10,2), deductions_amount: decimal (10,2), emp_ID int (FK))

Payroll.emp_ID references Employee.employee_ID

Attendance (attendance_ID: int, date: date, check_in_time: time, check_out_time: time, total_duration, status: varchar (50), emp_ID int (FK))

Where total_duration = check_out_time – check_in_time

Attendance.emp_ID references Employee. employee_ID

Deduction (deduction_ID: int, emp_ID int (FK), date: date, amount: decimal (10,2), type: varchar (50), status: varchar (50), unpaid_ID int (FK), attendance_ID int (FK))

Deduction.emp_ID references Employee. employee_ID

Deduction.unpaid_ID references Unpaid_leave.request_ID

Deduction.attendance_ID references attendance.attendance_id

Performance (performance_ID: int, rating: int, comments: varchar (50), semester: char (3), emp_ID (FK))

Performance.emp_ID references Employee. employee_ID

Employee_Replace_Employee (Table_ID int, Emp1_ID int (FK), Emp2_ID int (FK), from_date: date, to_date: date)

Employee_Replace_Employee. Emp1_ID references Employee. Employee_ID
Employee_Replace_Employee. Emp2_ID references Employee. Employee_ID

Employee_Approve_Leave (Emp1_ID int (FK), Leave_ID int (FK), status: varchar (50))

Employee_Approve_Employee. Emp1_ID references Employee. Employee_ID
Employee_Approve_Employee. Leave_ID references Leave.request_ID