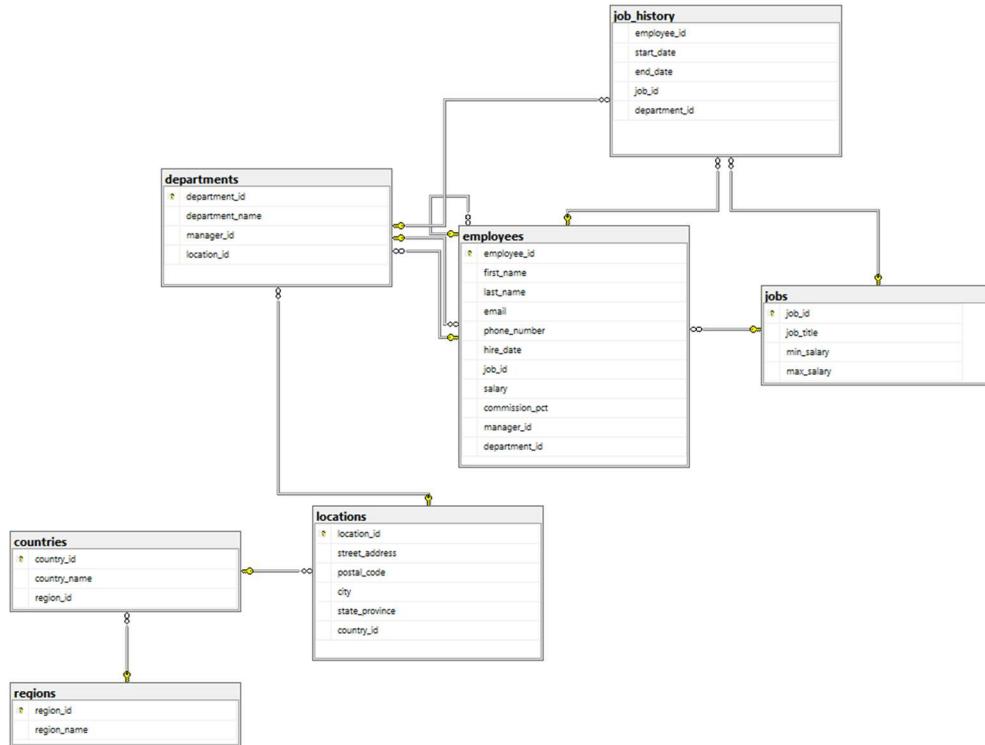


Day 1 Assignment – HR Database

Create Database

```
create database hrDB;
```



Create Tables

```
CREATE TABLE locations (
    location_id INT NOT NULL identity(100,10),
    street_address VARCHAR(40),
    postal_code VARCHAR(12),
    city VARCHAR(30) NOT NULL,
    state_province VARCHAR(25),
    country_id CHAR(2) NOT NULL,
    PRIMARY KEY (location_id));
```

```
CREATE TABLE countries (
    country_id CHAR(2) NOT NULL,
    country_name VARCHAR(40),
```

```
region_id INT NOT NULL,  
PRIMARY KEY (country_id);
```

```
CREATE TABLE regions (  
region_id INT NOT NULL,  
region_name VARCHAR(25),  
PRIMARY KEY (region_id));
```

```
CREATE TABLE employees (  
employee_id INT NOT NULL,  
first_name VARCHAR(20),  
last_name VARCHAR(25) NOT NULL,  
email VARCHAR(25) NOT NULL,  
phone_number VARCHAR(20),  
hire_date DATE NOT NULL,  
job_id VARCHAR(10) NOT NULL,  
salary DECIMAL(8, 2) NOT NULL,  
commission_pct DECIMAL(2, 2),  
manager_id INT,  
department_id INT,  
PRIMARY KEY (employee_id));
```

```
CREATE TABLE departments (  
department_id INT NOT NULL,  
department_name VARCHAR(30) NOT NULL,  
manager_id INT,  
location_id INT,  
PRIMARY KEY (department_id));
```

```
CREATE TABLE jobs (
    job_id VARCHAR(10) NOT NULL,
    job_title VARCHAR(35) NOT NULL,
    min_salary DECIMAL(8, 0),
    max_salary DECIMAL(8, 0),
    PRIMARY KEY (job_id);
```

```
CREATE TABLE job_history (
    employee_id INT NOT NULL,
    start_date DATE NOT NULL,
    end_date DATE NOT NULL,
    job_id VARCHAR(10) NOT NULL,
    department_id INT NOT NULL);
```

```
ALTER TABLE job_history ADD CONSTRAINT job_history_emp_start UNIQUE (employee_id, start_date);
```

```
ALTER TABLE countries ADD CONSTRAINT fk_countries_region FOREIGN KEY (region_id) REFERENCES regions(region_id);
```

```
ALTER TABLE locations ADD CONSTRAINT fk_locations_country FOREIGN KEY (country_id) REFERENCES countries(country_id);
```

```
ALTER TABLE departments ADD CONSTRAINT fk_departments_location FOREIGN KEY (location_id) REFERENCES locations(location_id);
```

```
ALTER TABLE employees ADD CONSTRAINT fk_employees_job FOREIGN KEY (job_id) REFERENCES jobs(job_id);
```

```
ALTER TABLE employees ADD CONSTRAINT fk_employees_department FOREIGN KEY (department_id) REFERENCES departments(department_id);
```

```
ALTER TABLE employees ADD CONSTRAINT fk_employees_manager FOREIGN KEY (manager_id) REFERENCES employees(employee_id);
```

```
ALTER TABLE departments ADD CONSTRAINT fk_departments_manager FOREIGN KEY  
(manager_id) REFERENCES employees(employee_id);
```

```
ALTER TABLE job_history ADD CONSTRAINT fk_jobhistory_employee FOREIGN KEY  
(employee_id) REFERENCES employees(employee_id);
```

```
ALTER TABLE job_history ADD CONSTRAINT fk_jobhistory_job FOREIGN KEY (job_id)  
REFERENCES jobs(job_id);
```

```
ALTER TABLE job_history ADD CONSTRAINT fk_jobhistory_department FOREIGN KEY  
(department_id) REFERENCES departments(department_id);
```

Insert values

```
INSERT INTO regions VALUES
```

```
(1, 'Asia'),
```

```
(2, 'Europe'),
```

```
(3, 'North America'),
```

```
(4, 'South America'),
```

```
(5, 'Australia');
```

```
INSERT INTO countries VALUES
```

```
('IN', 'India', 1),
```

```
('US', 'United States', 3),
```

```
('UK', 'United Kingdom', 2),
```

```
('AU', 'Australia', 5),
```

```
('BR', 'Brazil', 4);
```

```
INSERT INTO locations (street_address, postal_code, city, state_province, country_id)  
VALUES
```

```
('MG Road', '500001', 'Hyderabad', 'Telangana', 'IN'),
```

```
('5th Avenue', '10001', 'New York', 'NY', 'US'),
```

```
('Baker Street', 'NW16XE', 'London', 'London', 'UK'),
```

```
('George Street', '2000', 'Sydney', 'NSW', 'AU'),  
('Paulista Ave', '01310', 'Sao Paulo', 'SP', 'BR');
```

```
INSERT INTO jobs VALUES
```

```
('DEV', 'Software Developer', 40000, 90000),  
('MGR', 'Manager', 60000, 120000),  
('HR', 'HR Executive', 30000, 70000),  
('DS', 'Data Scientist', 70000, 150000),  
('QA', 'QA Engineer', 35000, 80000);
```

```
INSERT INTO departments (department_id, department_name, manager_id, location_id)  
VALUES
```

```
(10, 'IT', NULL, 100),  
(20, 'HR', NULL, 110),  
(30, 'Finance', NULL, 120),  
(40, 'Analytics', NULL, 130),  
(50, 'Testing', NULL, 140);
```

```
INSERT INTO employees VALUES
```

```
(101, 'Rithwika', 'Nagula', 'rithwika@corp.com', '9876543210', '2019-06-01', 'MGR', 90000,  
NULL, NULL, 10),  
(102, 'Arjun', 'Sharma', 'arjun@corp.com', '9876543211', '2020-03-15', 'DEV', 60000, NULL,  
101, 10),  
(103, 'Meera', 'Iyer', 'meera@corp.com', '9876543212', '2018-11-10', 'HR', 50000, NULL, 101,  
20),  
(104, 'John', 'Smith', 'john@corp.com', '9876543213', '2021-01-20', 'DS', 120000, NULL, 101,  
40),  
(105, 'Lucas', 'Brown', 'lucas@corp.com', '9876543214', '2022-07-01', 'QA', 55000, NULL,  
101, 50);
```

```
INSERT INTO job_history VALUES  
(102, '2020-03-15', '2021-06-30', 'DEV', 10),  
(102, '2021-07-01', '2023-12-31', 'DEV', 40),  
(103, '2018-11-10', '2020-12-31', 'HR', 20),  
(104, '2021-01-20', '2022-12-31', 'DS', 40),  
(105, '2022-07-01', '2024-06-30', 'QA', 50);
```