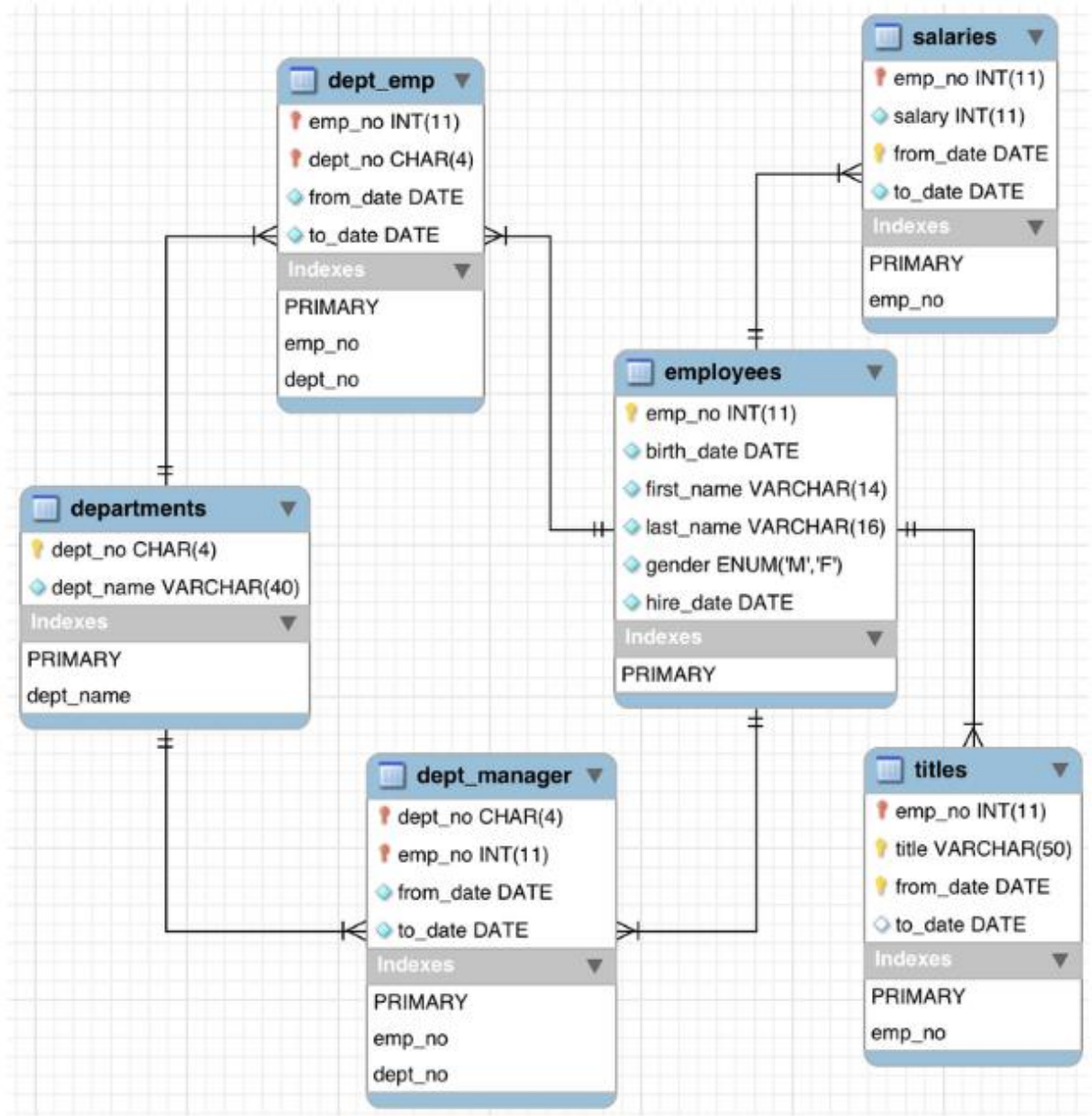

****

CREATE DATABASE SCRIPT FOR EMPLOYEES DATABASE

****

```
DROP DATABASE IF EXISTS employees;
CREATE DATABASE IF NOT EXISTS employees;
USE employees;
SELECT 'CREATING DATABASE STRUCTURE' as 'INFO';
DROP TABLE IF EXISTS dept_emp,
dept_manager,
titles,
```

```
salaries,
employees,
departments;
CREATE TABLE employees (
emp_no INT NOT NULL,
birth_date DATE NOT NULL,
first_name VARCHAR(14) NOT NULL,
last_name VARCHAR(16) NOT NULL,
gender ENUM ('M','F') NOT NULL,
hire_date DATE NOT NULL,
PRIMARY KEY (emp_no)
);
CREATE TABLE departments (
dept_no CHAR(4) NOT NULL,
dept_name VARCHAR(40) NOT NULL,
PRIMARY KEY (dept_no),
UNIQUE KEY (dept_name)
);
CREATE TABLE dept_manager (
emp_no INT NOT NULL,
dept_no CHAR(4) NOT NULL,
from_date DATE NOT NULL,
```

```
to_date DATE NOT NULL,
FOREIGN KEY (emp_no) REFERENCES employees (emp_no) ON DELETE CASCADE,
FOREIGN KEY (dept_no) REFERENCES departments (dept_no) ON DELETE CASCADE,
PRIMARY KEY (emp_no,dept_no)
);
CREATE TABLE dept_emp (
emp_no INT NOT NULL,
dept_no CHAR(4) NOT NULL,
from_date DATE NOT NULL,
to_date DATE NOT NULL,
FOREIGN KEY (emp_no) REFERENCES employees (emp_no) ON DELETE CASCADE,
FOREIGN KEY (dept_no) REFERENCES departments (dept_no) ON DELETE CASCADE,
PRIMARY KEY (emp_no,dept_no)
);
CREATE TABLE titles (
emp_no INT NOT NULL,
title VARCHAR(50) NOT NULL,
from_date DATE NOT NULL,
to_date DATE,
FOREIGN KEY (emp_no) REFERENCES employees (emp_no) ON DELETE CASCADE,
PRIMARY KEY (emp_no,title, from_date)
) ;
CREATE TABLE salaries (
emp_no INT NOT NULL,
salary INT NOT NULL,
from_date DATE NOT NULL,
to_date DATE NOT NULL,
FOREIGN KEY (emp_no) REFERENCES employees (emp_no) ON DELETE CASCADE,
PRIMARY KEY (emp_no, from_date)
) ;
INSERT INTO SCRIPT FOR EMPLOYEES DATABASE
```

INSERT INTO SCRIPT FOR EMPLOYEES DATABASE

****

```
INSERT INTO `departments` VALUES ('d001','Marketing'),
('d002','Finance'),
('d003','Human Resources'),
('d004','Production'),('d005','Development'),

('d006','Quality Management'),('d007','Sales'),
('d008','Research'),('d009','Customer Service');
INSERT INTO `employees` VALUES (10001,'1953-09-02','Georgi','Facello','M','1986-06-26'),
(10002,'1964-06-02','Bezalel','Simmel','F','1985-11-21'),
(10003,'1959-12-03','Parto','Bamford','M','1986-08-28'),
(10004,'1954-05-01','Chirstian','Koblick','M','1986-12-01'),
(10005,'1955-01-21','Kyoichi','Maliniak','M','1989-09-12'),
(10006,'1953-04-20','Anneke','Preusig','F','1989-06-02'),
(10007,'1957-05-23','Tzvetan','Zielinski','F','1989-02-10'),
(10008,'1958-02-19','Saniya','Kalloufi','M','1994-09-15'),
(10009,'1952-04-19','Sumant','Peac','F','1985-02-18'),
(10010,'1963-06-01','Duangkaew','Piveteau','F','1989-08-24'),
```

(10011,'1953-11-07','Mary','Sluis','F','1990-01-22'),
(10012,'1960-10-04','Patricio','Bridgland','M','1992-12-18'),
(10013,'1963-06-07','Eberhardt','Terkki','M','1985-10-20'),
(10014,'1956-02-12','Berni','Genin','M','1987-03-11');

INSERT INTO `dept_emp` VALUES (10001,'d005','1986-06-26','9999-01-01'),
(10002,'d007','1996-08-03','9999-01-01'),
(10003,'d004','1995-12-03','9999-01-01'),
(10004,'d004','1986-12-01','9999-01-01'),
(10005,'d003','1989-09-12','9999-01-01'),

(10006,'d005','1990-08-05','9999-01-01'),
(10014,'d005','1993-12-29','9999-01-01');

INSERT INTO `dept_manager` VALUES (10013,'d001','1985-01-01','1991-10-01'),
(10001,'d001','1991-10-01','9999-01-01'),
(10002,'d002','1985-01-01','1989-12-17'),
(10008,'d002','1989-12-17','9999-01-01'),
(10012,'d003','1985-01-01','1992-03-21'),
(10011,'d003','1992-03-21','9999-01-01'),
(10014,'d004','1985-01-01','1988-09-09'),
(10003,'d004','1988-09-09','1992-08-02');
INSERT INTO `salaries` VALUES (10001,60117,'1986-06-26','1987-06-26'),
(10001,62102,'1987-06-26','1988-06-25'),
(10002,66074,'1988-06-25','1989-06-25'),
(10003,66596,'1989-06-25','1990-06-25'),
(10004,66961,'1990-06-25','1991-06-25'),
(10005,71046,'1991-06-25','1992-06-24'),
(10006,74333,'1992-06-24','1993-06-24'),
(10007,75286,'1993-06-24','1994-06-24'),
(10008,75994,'1994-06-24','1995-06-24');

INSERT INTO `titles` VALUES (10001,'Senior Engineer','1986-06-26','9999-01-01'),
(10002,'Staff','1996-08-03','9999-01-01'),
(10003,'Senior Engineer','1995-12-03','9999-01-01'),
(10004,'Engineer','1986-12-01','1995-12-01'),
(10004,'Senior Engineer','1995-12-01','9999-01-01'),
(10005,'Senior Staff','1996-09-12','9999-01-01'),
(10005,'Staff','1989-09-12','1996-09-12'),
(10006,'Senior Engineer','1990-08-05','9999-01-01'),
(10007,'Senior Staff','1996-02-11','9999-01-01'),
(10007,'Staff','1989-02-10','1996-02-11'),
(10008,'Assistant Engineer','1998-03-11','2000-07-31');

TASKS

1. Create a SQL statement to list all managers and their titles.
2. Create a SQL statement to show the salary of all employees and their department name.
3. Create a SQL statement to show the hire date and birth date who belongs to HR department
4. Create a SQL statement to show all departments and their department's managers.
5. Create a SQL statement to show a list of HR's employees who were hired after 1986
6. Create a SQL statement to increase any employee's salary up to 2%. Assume the employee has just phoned in with his/her last name.
7. Create a SQL statement to delete employee's record who belongs to marketing department and name start with A
8. Create a database **view** to list the full names of all departments' managers, and their salaries.
9. Create a database **view** to list all departments and their department's managers, who were hired between 1980 and 1990.
10. Create a SQL statement to increase salaries of all department's managers up to 10% who are working since 1990.