```
CREATE DATABASE incredible;
USE incredible:
CREATE TABLE employees(
emp no INT(11) NOT NULL PRIMARY KEY,
birth date DATE,
first name VARCHAR(14),
last name VARCHAR(16),
gender ENUM('M','F'),
hire date DATE,
dept no CHAR(4)
);
CREATE TABLE departments(
dept no CHAR(4) NOT NULL PRIMARY KEY,
dept name VARCHAR(40),
dept id INT(11),
FOREIGN KEY(dept_id) REFERENCES employees(emp_no) ON DELETE SET
NULL
);
ALTER TABLE employees
ADD FOREIGN KEY(dept_no)
REFERENCES departments(dept_no)
ON DELETE SET NULL;
CREATE TABLE dept_emp(
emp no INT(11) NOT NULL,
dept_no CHAR(4) NOT NULL,
from date DATE,
to date DATE ,
PRIMARY KEY (emp_no,dept_no)
);
CREATE TABLE dept_manager(
emp_no INT(11) NOT NULL,
dept_no CHAR(4) NOT NULL,
```

```
from date DATE,
to date DATE,
PRIMARY KEY (emp no, dept no)
);
CREATE TABLE salaries(
emp no INT(11) NOT NULL PRIMARY KEY,
salary INT(11),
from date DATE,
to date DATE
);
CREATE TABLE titles(
emp no INT(11) NOT NULL PRIMARY KEY,
title VARCHAR(50),
from date DATE ,
to date DATE
);
SELECT * FROM employees;
INSERT INTO employees
VALUES(101, '1999-02-10', 'Brijesh', 'Yadav', 'M', '2019-07-01', NULL);
INSERT INTO departments VALUES('A1', 'CS', 101);
UPDATE employees SET dept_no = 'A1' WHERE emp_no = 101;
INSERT INTO employees
VALUES(102, '1999-08-02', 'Md', 'Sarmad', 'M', '2019-07-02', NULL);
INSERT INTO departments VALUES('A2','IT',102);
UPDATE employees SET dept_no = 'A2' WHERE emp_no = 102;
INSERT INTO employees
VALUES(103, '1999-03-10', 'Ishu', 'Ayush', 'M', '2019-04-05', 'A1');
```

```
INSERT INTO employees
VALUES(104, '1999-11-10', 'Aria', 'Joshi', 'F', '2019-08-05', NULL);
INSERT INTO departments VALUES('A3', 'ME', 104);
UPDATE employees SET dept no = 'A3' WHERE emp no = 104;
INSERT INTO employees
VALUES(105, '1999-06-10', 'Sofia', '', 'F', '2019-04-05', 'A3');
SELECT * FROM departments;
INSERT INTO departments VALUES('A4','Civil',105);
SELECT * FROM dept emp;
INSERT INTO dept emp VALUES(101, 'A1', '2019-07-01', '2020-09-01');
INSERT INTO dept emp VALUES(102, 'A2', '2019-07-02', '2021-05-03');
INSERT INTO dept emp VALUES(103, 'A1', '2019-04-05', '2021-06-08');
INSERT INTO dept emp VALUES(105, 'A3', '2019-05-05', '2021-02-05');
INSERT INTO dept emp VALUES(106, 'A6', '2019-07-01', '2021-07-02');
SELECT * FROM dept manager;
INSERT INTO dept manager
VALUES (101, 'A1', '2019-07-01', '2020-08-01');
INSERT INTO dept_manager
VALUES (102, 'A2', '2019-07-02', '2021-02-03');
INSERT INTO dept manager
VALUES(103, 'A1', '2019-04-05', '2021-01-08');
INSERT INTO dept_manager
VALUES(105, 'A3', '2019-05-05', '2021-01-05');
INSERT INTO dept manager
VALUES(106, 'A6', '2019-07-01', '2021-05-02');
```

```
SELECT * FROM salaries;
INSERT INTO salaries VALUES(101,20000,'2019-07-01','2020-09-01');
INSERT INTO salaries VALUES(102,30000,'2019-07-02','2021-05-03');
INSERT INTO salaries VALUES(103,15000,'2019-04-05','2021-06-08');
INSERT INTO salaries VALUES(104,34000,'2019-08-05','2021-02-05');
INSERT INTO salaries VALUES(106,28000,'2019-07-01','2021-07-02');
SELECT * FROM titles;
-- INSERT
INSERT INTO titles VALUES(101, 'Software
Engineer', '2019-07-01', '2020-09-01');
INSERT INTO titles VALUES(102, 'Data
Scientist', '2019-07-02', '2021-05-03');
INSERT INTO titles VALUES(103, 'Project
Head', '2019-04-05', '2021-06-08');
INSERT INTO titles
VALUES (104, 'Manager', '2019-08-05', '2021-02-05');
INSERT INTO titles
VALUES(105, 'Architect', '2019-05-05', '2021-02-05');
-- READ
SELECT * FROM titles;
-- UPDATE
UPDATE titles SET title = 'Data Analyst' WHERE emp_no = 103;
-- DELETE
DELETE FROM titles WHERE emp no = 105;
```