```
CREATE DATABASE Perusahaan;
USE Perusahaan;

CREATE TABLE departments (
    department_id INT PRIMARY KEY,
    department_name VARCHAR(100),
    location_id INT
);

-- Masukkan beberapa data ke dalam tabel departments
INSERT INTO departments (department_id, department_name, location_id) VALUES
(10, 'Administration', 1700),
(20, 'Marketing', 1800),
(30, 'Sales', 1900),
(40, 'IT', 2000),
(50, 'Finance', 2100),
(110, 'Accounting', 2200);

CREATE TABLE pekerjaan (
    job_id VARCHAR(10) PRIMARY KEY,
    job_title VARCHAR(100)
);

-- Masukkan data ke dalam tabel pekerjaan
INSERT INTO pekerjaan (job_id, job_title) VALUES
('AD_PRES', 'President'),
('AD_VP', 'Administration Vice President'),
('AC_MGR', 'Accounting Manager'),
('AC_ACCOUNT', 'Public Accountant'),
('SA_MAN', 'Sales Manager');
```

```
CREATE TABLE karyawan (
    employee_id INT PRIMARY KEY,
    first_name VARCHAR(50),
    last_name VARCHAR(50),
    job_id VARCHAR(10),
    department_id INT,
    FOREIGN KEY (job_id) REFERENCES pekerjaan(job_id),
    FOREIGN KEY (department_id) REFERENCES departments(department_id)
);

-- Masukkan data karyawan
INSERT INTO karyawan (employee_id, first_name, last_name, job_id, department_id) VALUES
(100, 'Steven', 'King', 'AD_PRES', 10),
(101, 'Neena', 'Kochhar', 'AD_VP', 10),
(102, 'Lex', 'De Haan', 'AD_VP', 20),
(103, 'Shelley', 'Higgins', 'AC_MGR', 110),
(104, 'William', 'Gietz', 'AC_ACCOUNT', 110),
(105, 'John', 'Doe', 'SA_MAN', 30);

SELECT first_name, last_name, job_id, job_title
FROM karyawan
NATURAL JOIN pekerjaan
WHERE department_id > 80;

SELECT last_name, department_name
FROM karyawan CROSS JOIN
departments;

SELECT first_name, last_name, department_id, department_name
FROM karyawan JOIN departments USING (department_id);
```

```
SELECT last_name, karyawan.job_id, job_title
FROM karyawan, pekerjaan
WHERE karyawan.job_id = pekerjaan.job_id
AND department_id = 80;

CREATE TABLE lokasi (
   city_id INT AUTO_INCREMENT PRIMARY KEY,
   city_name VARCHAR(100)
);

INSERT INTO lokasi (city_name) VALUES
('Toronto'),
('Toronto'),
('Oxford'),
('Oxford'),
('Oxford'),
('Southlake'),
('Southlake'),
('Southlake'),
('South San Francisco');

SELECT last_name, department_name AS "Department"
FROM karyawan JOIN departments USING (department_id)
JOIN lokasi USING (city_id);

SELECT * FROM lokasi;

SELECT k.last_name, d.department_id,
d.department_name
FROM karyawan k LEFT OUTER JOIN
departments d
```

```
ON (k.department_id =
d.department_id) ;

SELECT k.last_name, d.department_id,
d.department_name
FROM karyawan k RIGHT OUTER JOIN
departments d
ON (k.department_id =
d.department_id) ;

SELECT k.last_name, d.department_id, d.department_name
FROM karyawan k FULL OUTER JOIN departments d
ON (k.department id = d.department id) ;

SELECT k.last_name, d.department_id, d.department_name
FROM karyawan k
LEFT JOIN departments d ON k.department_id = d.department_id

UNION

SELECT k.last_name, d.department_id, d.department_name
FROM karyawan k
RIGHT JOIN departments d ON k.department_id = d.department_id;

SELECT last_name, k.job_id AS "Job", jh.job_id AS "Old job",
end_date
FROM karyawan k LEFT OUTER JOIN job_history jh
ON (k.employee_id = jh.employee_id);

CREATE TABLE job_history (
   employee_id INT,
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    job_id VARCHAR(10),
    start_date DATE,
    end_date DATE,
    old_job_id VARCHAR(10)
);

INSERT INTO job_history (employee_id, job_id, old_job_id, end_date)
VALUES
(100, 'AD_PRES', 'AC_MGR', '1997-03-15'),
(101, 'AD_VP', 'AC_ACCOUNT', '1993-10-27'),
(101, 'AD_VP', 'IT_PROG', '1998-07-24'),
(102, 'AD_VP', 'AD_ASST', '1993-06-17'),
(103, 'AD_ASST', 'AC_ACCOUNT', '1998-12-31');

CREATE TABLE manager (
    employee_id INT PRIMARY KEY,
    last_name VARCHAR(50)
);

INSERT INTO manager (employee_id, last_name) VALUES
(100, 'King'),
(101, 'Kochhar'),
(102, 'De Haan'),
(103, 'Hunold'),
(104, 'Ernst'),
(107, 'Lorentz'),
(124, 'Mourgos');

SELECT karyawan.last_name, manager.employee_id, manager.last_name
AS "Manager name"
FROM karyawan JOIN manager
```

```
ON (karyawan.employee_id = manager.employee_id);
```