// Create database

CREATE DATABASE db\_properti\_latihan;

// Create branch

CREATE TABLE Branch(

branchNo CHAR(4) NOT NULL,

street VARCHAR(50) NOT NULL,

city VARCHAR(50) NOT NULL,

postcode VARCHAR(30) NOT NULL,

PRIMARY KEY (branchNo),

CONSTRAINT checkBranchNo CHECK(branchNo LIKE 'B00[0-9]')

)

ENGINE=INNODB DEFAULT CHARSET = latin1;

// Create Staff

CREATE TABLE Staff(

staffNo CHAR(4) NOT NULL,

fName VARCHAR(20) NOT NULL,

lName VARCHAR(20) NOT NULL,

staffPosition ENUM('Manager', 'Assistant', 'Supervisor') NOT NULL,

sex ENUM('M', 'F') NOT NULL,

DOB DATE NOT NULL,

salary NUMERIC(10, 0) NOT NULL DEFAULT '0',

branchNo CHAR(4) NOT NULL,

PRIMARY KEY (staffNo),

KEY branchNo(branchNo),

KEY FK\_branch(branchNo),

KEY checkStaffNo(staffNo),

CONSTRAINT checkStaffNo CHECK(staffNo LIKE 'S[A-Z][0-9][0-9]'),

CONSTRAINT FK\_branch FOREIGN KEY (branchNo) REFERENCES Branch(branchNo)

ON DELETE CASCADE

ON UPDATE CASCADE)

ENGINE=INNODB DEFAULT CHARSET = latin1;

// Create private owner

CREATE TABLE PrivateOwner(

ownerNo CHAR(4) NOT NULL,

fName VARCHAR(25) NOT NULL,

lName VARCHAR(25) NOT NULL,

address VARCHAR (255) NOT NULL,

telNo VARCHAR(13) NOT NULL,

PRIMARY KEY (ownerNo),

CONSTRAINT checkOwnerNo CHECK(ownerNo LIKE 'CO[0-9][0-9]')

)

ENGINE=INNODB DEFAULT CHARSET = latin1;

// Create table klien

CREATE TABLE klien(

clientNo CHAR(4) NOT NULL,

fName VARCHAR(50) NOT NULL,

lName VARCHAR(50) NOT NULL,

telNo VARCHAR(13) NOT NULL,

prefType ENUM('Flat', 'House') NOT NULL,

maxRent INT(3) NOT NULL,

PRIMARY KEY (clientNo),

CONSTRAINT checkClientNo CHECK(clientNo LIKE 'CR[0-9][0-9]')

)

ENGINE = INNODB DEFAULT CHARSET = latin1;

// Create Property For Rent

CREATE TABLE PropertyForRent(

propertyNo CHAR(4) NOT NULL,

street VARCHAR(100) NOT NULL,

city VARCHAR(50) NOT NULL,

postcode VARCHAR(50) NOT NULL,

propertyType ENUM('House', 'Flat') NOT NULL,

rooms INT(1) NOT NULL,

rent INT(3) NOT NULL,

ownerNo CHAR(4) NOT NULL,

staffNo CHAR(4) NOT NULL,

branchNo CHAR(4) NOT NULL,

PRIMARY KEY (propertyNo),

KEY checkPropertyNo (propertyNo),

KEY FK\_owner\_propery (ownerNo),

KEY FK\_staff\_propery(staffNo),

KEY FK\_branch\_propery(branchNo),

CONSTRAINT FK\_owner\_propery FOREIGN KEY (ownerNo) REFERENCES PrivateOwner(ownerNo),

CONSTRAINT FK\_staff\_propery FOREIGN KEY (staffNo) REFERENCES Staff(staffNo),

CONSTRAINT FK\_branch\_propery FOREIGN KEY (branchNo) REFERENCES Branch(branchNo),

CONSTRAINT checkPropertyNo CHECK(propertyNo LIKE 'P[A-Z][0-9][0-9]')

)

ENGINE=INNODB DEFAULT CHARSET = latin1;

// Table Viewing

CREATE TABLE viewing(

clientNo CHAR(4) NOT NULL,

propertyNo CHAR(4) NOT NULL,

viewDate DATE NOT NULL,

clientComment VARCHAR(255) NOT NULL,

PRIMARY KEY (clientNo, propertyNo),

KEY FK\_client\_view (clientNo),

KEY FK\_property\_view (propertyNo),

CONSTRAINT FK\_client\_view FOREIGN KEY (clientNo) REFERENCES klien(clientNo),

CONSTRAINT FK\_property\_view FOREIGN KEY (propertyNo) REFERENCES PropertyForRent(propertyNo)

)

ENGINE = INNODB DEFAULT CHARSET = latin1;

// Table regis

CREATE TABLE registration(

clientNo CHAR(4) NOT NULL,

branchNo CHAR(4) NOT NULL,

staffNo CHAR(4) NOT NULL,

date\_joined DATE NOT NULL,

PRIMARY KEY (clientNo, branchNo, staffNo),

KEY FK\_client\_regis(clientNo),

KEY FK\_branch\_regis(branchNo),

KEY FK\_staff\_regis(staffNo),

CONSTRAINT FK\_client\_regis FOREIGN KEY (clientNo) REFERENCES klien(clientNo),

CONSTRAINT FK\_branch\_regis FOREIGN KEY (branchNo) REFERENCES Branch(branchNo),

CONSTRAINT FK\_staff\_regis FOREIGN KEY (staffNo) REFERENCES Staff(staffNo)

)

ENGINE=INNODB DEFAULT CHARSET = latin1;