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/* SQL File for Final Project */
/* Team 2: Jasmine Hazelbaker, Quinn Phillips, Abigail Pesce */

/* Drop Tables if they exist */
DROP TABLE IF EXISTS maintenance;
DROP TABLE IF EXISTS transaction;
DROP TABLE IF EXISTS room;
DROP TABLE IF EXISTS occupant;
DROP TABLE IF EXISTS employees;
DROP TABLE IF EXISTS building;
DROP TABLE IF EXISTS payment;

/* Create all tables */
CREATE TABLE building (
    building_id INT,
    building_name VARCHAR(50),
    neighborhood VARCHAR(50),
    address VARCHAR(50),
    building_num INT,
    num_rooms INT,
    num_floors INT,
    num_occupants INT,
    amenities VARCHAR(50),
    PRIMARY KEY (building_id)
) ENGINE = innodb;
CREATE TABLE room (
    room_id INT,
    room_building INT,
    type VARCHAR(50),
    price INT,
    num_occupants INT,
    amenities VARCHAR(50),
    PRIMARY KEY (room_id),
    FOREIGN KEY (room_building) REFERENCES building(building_id)
) ENGINE = innodb;
CREATE TABLE occupant (
    student_id INT,
    occupant_building INT,
    fname VARCHAR(50),
    lname VARCHAR(50),
    type VARCHAR(50),
    dob DATE,
    gender VARCHAR(50),
    phone VARCHAR(50),
    email VARCHAR(50),
    PRIMARY KEY (student_id),
    FOREIGN KEY (occupant_building) REFERENCES building(building_id)
) ENGINE = innodb;
CREATE TABLE employees (
    employee_id INT,
    employee_building INT,
    fname VARCHAR(50),
    lname VARCHAR(50),
    dob DATE,
    phone VARCHAR(50),
    gender VARCHAR(50),
    PRIMARY KEY (employee_id),
    FOREIGN KEY (employee_building) REFERENCES building(building_id)
) ENGINE = innodb;

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CREATE TABLE payment (
    transaction_id INT,
    stud_id INT,
    amount_due INT,
    due_date DATE,
    PRIMARY KEY (transaction_id)
) ENGINE = innodb;
CREATE TABLE maintenance (
    empID INT,
    maintenance_building INT,
    repairs VARCHAR(50),
    req_date DATE,
    comp_date DATE,
    FOREIGN KEY (empID) REFERENCES employees(employee_id),
    FOREIGN KEY (maintenance_building) REFERENCES building(building_id)
) ENGINE = innodb;
CREATE TABLE transaction (
    studID INT,
    transID INT,
    amount_paid INT,
    date_paid DATE,
    FOREIGN KEY (studID) REFERENCES occupant(student_id),
    FOREIGN KEY (transID) REFERENCES payment(transaction_id)
) ENGINE = innodb;

/* Insert data into tables */
INSERT INTO building(building_id, building_name, neighborhood, address,
building_num, num_rooms, num_floors, num_occupants, amenities) VALUES
(1, 'Briscoe', 'Northwest', '1225 N. Fee Lane', 3, 70, 4, 72, 'Dining'),
(2, 'Ashton', 'Central', '1800 E. Tenth Street', 2, 5, 60, 30, 'Dining'),
(3, 'Collins', 'Central', '541 N. Woodlawn Avenue', 2, 31, 59, 2, 'C-Store'),
(4, 'Redbud Hill', 'Northeast', '2100 E. Lingelbach Ln', 1, 5, 3, 37, 'C-Store'),
(5, 'Campus View', 'Northeast', '800 N. Union Street', 3, 21, 2, 27, 'Dining'),
(6, 'Foster', 'Northwest', '1000 N. Fee Lane', 2, 85, 4, 93, 'Dining'),
(7, 'Forest', 'Southeast', '1725 E. Third Street', 3, 34, 3, 38, 'C-Store'),
(8, 'Read', 'Southeast', '122 S. Jordan Avenue', 4, 11, 2, 98, 'C-Store'),
(9, 'McNutt', 'Northwest', '1101 N. Fee Lane', 3, 81, 1, 84, 'C-Store'),
(10, 'Tulip Tree', 'Northeast', '2451 E. 10th Street', 1, 80, 5, 67, 'C-Store'),
(11, 'Walnut Grove Center', 'Northwest', '702 N. Walnut Grove Street', 1, 55, 4,
68, 'Dining'),
(12, 'Spruce', 'Southeast', '1801 Jones Avenue', 2, 47, 5, 66, 'Dining'),
(13, 'Teter', 'Central', '501 N. Sunrise Drive', 4, 19, 6, 69, 'C-Store'),
(14, 'Wright', 'Central', '501 N. Jordan Avenue', 2, 59, 5, 100, 'C-Store'),
(15, 'Wells', 'Southeast', '1021 E. 3rd Street', 1, 16, 2, 54, 'Dining'),
(16, 'Willkie', 'Southeast', '150 N. Rose Avenue', 1, 10, 2, 88, 'Dining'),
(17, 'The Dillon', 'Off Campus', '525 S. Patterson Drive', 1, 36, 3, 34, Null),
(18, 'Reserve on Third', 'Off Campus', '500 S. Park Ridge Road', 2, 66, 3, 42,
Null),
(19, 'Evolve', 'Off Campus', '1425 N. Dunn Street', 1, 76, 3, 1, Null),
(20, 'The Avenue', 'Off Campus', '445 N. College Avenue', 2, 75, 1, 71, Null);

INSERT INTO room(room_id, room_building, type, price, num_occupants, amenities)
VALUES
(14, 1, 'Single', 8000, 1, 'NO A/C'),
(96, 2, 'Single', 9000, 1, 'A/C'),
(27, 3, 'Double', 7000, 2, 'A/C'),
(36, 4, 'Double', 5000, 2, 'NO A/C'),
(55, 5, 'Double', 6000, 2, 'NO A/C'),
(62, 6, 'Single', 2000, 1, 'NO A/C'),

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(92, 7, 'Single', 3000, 1, 'A/C'),
(38, 8, 'Double', 7000, 2, 'A/C'),
(84, 9, 'Single', 1000, 1, 'NO A/C'),
(88, 10, 'Double', 3000, 2, 'A/C'),
(51, 11, 'Double', 6000, 2, 'NO A/C'),
(16, 12, 'Single', 4000, 1, 'NO A/C'),
(53, 13, 'Double', 2000, 2, 'A/C'),
(72, 14, 'Double', 6000, 2, 'NO A/C'),
(50, 15, 'Single', 8000, 1, 'A/C'),
(97, 16, 'Single', 9000, 1, 'NO A/C'),
(43, 17, 'Double', 2000, 2, 'A/C'),
(52, 18, 'Double', 4000, 2, 'A/C'),
(81, 19, 'Double', 3000, 2, 'NO A/C'),
(82, 20, 'Double', 6000, 2, 'NO A/C');
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INSERT INTO occupant(student_id, occupant_building, fname, lname, type, dob,
gender, phone, email) VALUES
(55, 1, 'Ozzy', 'Vant', 'Student', '2000-03-30', 'Male', '544-990-5615',
'ovant0@tiny.cc'),
(57, 2, 'Porty', 'Pople', 'Student', '1998-03-21', 'Agender', '123-101-5056',
'ppople1@twitpic.com'),
(26, 3, 'Rici', 'Wilcockes', 'RA', '2000-06-01', 'Female', '965-340-9386',
'cducrow2@tuttocitta.it'),
(84, 4, 'Reinaldos', 'Huyhton', 'Student', '1999-07-28', 'Male', '936-358-3490',
'rhuyhton3@free.fr'),
(88, 5, 'Darill', 'Beer', 'RA', '2001-01-05', 'Non-binary', '531-658-9342',
'dbeer4@go.com'),
(49, 6, 'Byrann', 'Shelbourne', 'RA', '1999-05-05', 'Non-binary', '848-263-1870',
'ssuch5@wordpress.com'),
(11, 7, 'Alana', 'Follos', 'RA', '1999-12-24', 'Female', '592-287-1034',
'cnealon6@phpbb.com'),
(70, 8, 'Erinn', 'Kenright', 'RA', '2002-02-17', 'Female', '158-807-2667',
'ekenright7@earthlink.net'),
(75, 9, 'Melvin', 'Gobbet', 'Student', '2001-04-22', 'Male', '859-756-3724',
'mgobbet8@mac.com'),
(16, 10, 'Lucais', 'Moloney', 'Student', '2000-01-31', 'Polygender', '861-202-
6158', 'lmooney9@webnode.com'),
(42, 11, 'Many', 'Sappell', 'RA', '1998-03-19', 'Genderfluid', '222-532-2727',
'msappella@admin.ch'),
(38, 12, 'Roz', 'Guisot', 'Student', '1999-11-09', 'Male', '991-735-5107',
'rguisotb@virginia.edu'),
(76, 13, 'Edeline', 'Pitkeathly', 'RA', '2001-10-26', 'Polygender', '443-973-1248',
'epitkeathlyc@networksolutions.com'),
(34, 14, 'Staford', 'Featherstonhaugh', 'Student', '2000-02-26', 'Genderqueer',
'509-714-5231', 'sfeatherstonhaughd@dmoz.org'),
(33, 15, 'Donn', 'Probate', 'Student', '1999-10-10', 'Male', '155-824-5067',
'dprobateebloglovin.com'),
(18, 16, 'Tasha', 'Davidi', 'Student', '1999-03-18', 'Female', '477-495-0825',
'tdavidif@europa.eu'),
(47, 17, 'Cary', 'Hartford', 'Student', '1998-05-09', 'Genderqueer', '811-576-
1391', 'chartfordg@illinois.edu'),
(19, 18, 'Joshuah', 'Eayrs', 'Student', '2001-07-21', 'Male', '644-604-9071',
'jeayrsh@merriam-webster.com'),
(15, 19, 'Kittie', 'Pitcher', 'Student', '2002-09-13', 'Female', '570-331-4327',
'kpitcheri@ftc.gov'),
(23, 20, 'Jack', 'Lakeland', 'Student', '1999-06-07', 'Male', '696-545-6004',
'jlakelandj@printfriendly.com');
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INSERT INTO employees(employee_id, employee_building, fname, lname, dob, phone,
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gender) VALUES
(81, 6, 'Rici', 'Wilcockes', '2000-04-28', '965-340-9386', 'Male'),
(86, 13, 'Cordelia', 'Flemmich', '1999-12-13', '496-726-8282', 'Female'),
(3, 13, 'Gustavus', 'Greenhowe', '1987-03-02', '950-715-8422', 'Agender'),
(45, 14, 'Zacharia', 'Rooke', '2000-12-25', '753-475-9710', 'Female'),
(34, 12, 'Manya', 'Sappell', '1992-11-23', '497-225-0922', 'Female'),
(101, 10, 'Uta', 'McArd', '2000-09-10', '422-812-7552', 'Male'),
(51, 12, 'Alana', 'Follos', '1990-11-21', '592-287-1034', 'Female'),
(16, 13, 'Mateo', 'Domney', '2001-03-04', '250-994-6253', 'Male'),
(1, 1, 'Erinn', 'Kenright', '1992-01-10', '703-327-4306', 'Female'),
(21, 8, 'Lorie', 'Trimby', '1989-08-05', '296-122-7287', 'Female'),
(30, 3, 'Byrann', 'Shelbourne', '1998-02-25', '848-263-1870', 'Non-binary'),
(52, 9, 'Papagena', 'Aitkenhead', '1999-04-14', '950-145-2569', 'Polygender'),
(36, 12, 'Maryanna', 'Partener', '1997-07-20', '676-533-4458', 'Genderqueer'),
(14, 8, 'Garrek', 'Folonin', '2000-06-11', '260-463-1983', 'Male'),
(103, 12, 'Samuele', 'Klyner', '2001-02-16', '114-178-9398', 'Male'),
(28, 4, 'Russ', 'Cokly', '1993-03-21', '351-662-8362', 'Genderqueer'),
(33, 7, 'Luis', 'Andell', '1992-01-26', '741-362-8069', 'Agender'),
(4, 9, 'Lea', 'Rowsell', '2000-12-07', '727-169-8025', 'Polygender'),
(82, 5, 'Barbaraanne', 'Reichelt', '2001-10-06', '428-148-5013', 'Female'),
(67, 2, 'Rickie', 'Attlee', '1996-12-25', '471-961-3409', 'Male');

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INSERT INTO payment(transaction_id, stud_id, amount_due, due_date) VALUES
(13, 55, 5100, '2021-02-18'),
(101, 57, 5200, '2021-03-31'),
(60, 26, 4400, '2020-06-25'),
(16, 84, 8700, '2020-06-24'),
(9, 88, 1400, '2020-08-28'),
(47, 49, 6400, '2021-03-31'),
(26, 11, 4100, '2020-06-20'),
(37, 70, 7300, '2021-03-07'),
(35, 76, 8400, '2020-11-19'),
(46, 16, 8600, '2020-11-21'),
(41, 42, 8900, '2020-09-19'),
(3, 38, 6100, '2021-02-07'),
(100, 76, 1700, '2020-12-25'),
(96, 34, 2800, '2020-10-28'),
(81, 33, 700, '2020-06-26'),
(55, 18, 1800, '2020-10-21'),
(18, 47, 8500, '2021-01-12'),
(71, 19, 7000, '2020-04-09'),
(50, 15, 8800, '2020-06-21'),
(102, 23, 8900, '2020-11-04');

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INSERT INTO maintenance(empID, maintenance_building, repairs, req_date, comp_date)
VALUES
(81, 1, 'Sink', '2020-07-14', '2021-03-02'),
(86, 3, 'Sink', '2020-11-25', '2020-09-09'),
(3, 1, 'Dresser', '2020-05-31', '2020-05-26'),
(45, 7, 'Door', '2020-09-14', '2021-03-21'),
(34, 8, 'Door', '2020-11-27', '2020-06-19'),
(101, 9, 'Sink', '2020-07-17', '2021-02-08'),
(51, 11, 'Dresser', '2021-01-11', '2021-03-30'),
(16, 15, 'Window', '2021-01-13', '2020-12-24'),
(1, 16, 'Sink', '2020-05-20', '2021-01-18'),
(21, 7, 'Window', '2020-10-18', '2021-01-21'),
(30, 18, 'Door', '2020-05-10', '2020-12-13'),
(52, 20, 'Door', '2020-04-22', '2020-05-08'),
(36, 12, 'Dresser', '2020-10-26', '2020-12-19'),

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(14, 6, 'Sink', '2020-06-15', '2020-05-06'),  
(103, 18, 'Door', '2020-08-27', '2020-04-15'),  
(28, 12, 'Door', '2020-11-08', '2020-04-06'),  
(33, 15, 'Sink', '2020-05-13', '2020-10-07'),  
(4, 20, 'Window', '2020-05-05', '2021-01-11'),  
(82, 9, 'Window', '2020-12-02', '2021-01-05'),  
(67, 15, 'Dresser', '2020-12-13', '2020-05-17');
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INSERT INTO transaction(studID, transID, amount_paid, date_paid) VALUES  
(55, 13, 7700, '2021-01-05'),  
(57, 101, 2400, '2020-11-27'),  
(26, 60, 4200, '2021-02-10'),  
(84, 16, 3400, '2020-05-30'),  
(88, 9, 1600, '2020-08-17'),  
(49, 47, 3300, '2020-07-05'),  
(11, 26, 9700, '2020-12-11'),  
(70, 37, 9100, '2020-08-05'),  
(76, 35, 1400, '2020-10-14'),  
(16, 46, 400, '2020-04-06'),  
(42, 41, 2400, '2020-10-27'),  
(38, 3, 9000, '2020-09-14'),  
(76, 100, 4100, '2020-06-16'),  
(34, 96, 7900, '2020-09-23'),  
(33, 81, 100, '2020-09-15'),  
(18, 55, 3800, '2020-07-31'),  
(47, 18, 9100, '2020-07-24'),  
(19, 71, 6800, '2020-09-10'),  
(15, 50, 4300, '2020-09-24'),  
(23, 102, 6700, '2021-01-12');
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