**University of Science and Technology of Southern Philippines** Alubijid | Cagayan de Oro | Claveria | Jasaan | Oroquieta | Panaon 

**Laboratory Exercise**

**The DreamHome Case Study**

**a ) Create and maintain records recording the details of members of staff and their next of-kin at each branch office (Manager).**

**SQL Query:**

--Create a database for DreamHome—

[CREATE](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/create-database.html) [DATABASE](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/create-database.html) DreamHome;

--Create tables for staff, their next-of-kin and branch office—

[CREATE](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/create-table.html) [TABLE](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/create-table.html) BranchOffice ( BranchNumber VARCHAR(10) PRIMARY KEY, Address VARCHAR(255), TelephoneNumber VARCHAR(20), FaxNumber VARCHAR(20) );

[CREATE](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/create-table.html) [TABLE](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/create-table.html) Staff ( StaffNumber VARCHAR(10) PRIMARY KEY, FirstName VARCHAR(50), LastName VARCHAR(50), Address VARCHAR(255), TelephoneNumber VARCHAR(20), Sex VARCHAR(10), DateOfBirth DATE, NIN VARCHAR(20), JobTitle VARCHAR(50), Salary DECIMAL(10, 2), JoinDate DATE, BranchNumber VARCHAR(10), FOREIGN KEY (BranchNumber) REFERENCES BranchOffice(BranchNumber) );

[CREATE](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/create-table.html) [TABLE](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/create-table.html) NextOfKin ( StaffNumber VARCHAR(10) PRIMARY KEY, FullName VARCHAR(100), Relationship VARCHAR(50), NextOfKinAddress VARCHAR(255), NextOfKinTelephoneNumber VARCHAR(20), FOREIGN KEY (StaffNumber) REFERENCES Staff(StaffNumber) );

--Inserting Data into the tables—

[INSERT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/insert.html) INTO Staff (StaffNumber, FirstName, LastName, Address, TelephoneNumber, Sex, DateOfBirth, NIN, JobTitle, Salary, JoinDate, BranchNumber) [VALUES](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/miscellaneous-functions.html%23function_values) ('S1', 'John', 'Doe', '789 Elm St, City1, Post1', '333-333-3333', 'Male', '1980-01-01', 'AB123456C', 'Manager', 60000, '2005-01-15', 'B1'), ('S2', 'Jane', 'Smith', '101 Pine St, City1, Post1', '444-444-4444', 'Female', '1985-03-15', 'XY789012Z', 'Manager', 55000, '2007-05-20', 'B1'), ('S3', 'Shikimaru', 'Nara', '202 Maple St, City2, Post2', '555-555-5555', 'Male', '1982-08-22', 'BC456789A', 'Supervisor', 45000, '2010-10-10', 'B2'), ('S4', 'Sarah', 'Williams', '303 Birch St, City2, Post2', '666-666-6666', 'Female', '1987-12-05', 'DE987654F', 'Supervisor', 50000, '2012-12-12', 'B2'), ('S5', 'Kirigaya', 'Kazuto', '404 Cedar St, City1, Post1', '777-777-7777', 'Male', '1984-06-18', 'FG654321H', 'Staff', 40000, '2015-03-25', 'B1'), ('S6', 'Emily', 'Jones', '505 Walnut St, City1, Post1', '888-888-8888', 'Female',[...]

--Below is the full sql query for the staff--

INSERT INTO Staff (StaffNumber, FirstName, LastName, Address, TelephoneNumber, Sex, DateOfBirth, NIN, JobTitle, Salary, JoinDate, BranchNumber)

VALUES

('S1', 'John', 'Doe', '789 Elm St, City1, Post1', '333-333-3333', 'Male', '1980-01-01', 'AB123456C', 'Manager', 60000, '2005-01-15', 'B1'),

('S2', 'Jane', 'Smith', '101 Pine St, City1, Post1', '444-444-4444', 'Female', '1985-03-15', 'XY789012Z', 'Manager', 55000, '2007-05-20', 'B1'),

('S3', 'Shikimaru', 'Nara', '202 Maple St, City2, Post2', '555-555-5555', 'Male', '1982-08-22', 'BC456789A', 'Supervisor', 45000, '2010-10-10', 'B2'),

('S4', 'Sarah', 'Williams', '303 Birch St, City2, Post2', '666-666-6666', 'Female', '1987-12-05', 'DE987654F', 'Supervisor', 50000, '2012-12-12', 'B2'),

('S5', 'Kirigaya', 'Kazuto', '404 Cedar St, City1, Post1', '777-777-7777', 'Male', '1984-06-18', 'FG654321H', 'Staff', 40000, '2015-03-25', 'B1'),

('S6', 'Emily', 'Jones', '505 Walnut St, City1, Post1', '888-888-8888', 'Female', '1990-02-14', 'HI321098J', 'Staff', 38000, '2018-08-01', 'B1'),

('S7', 'Chris', 'Miller', '606 Sycamore St, City2, Post2', '999-999-9999', 'Male', '1988-11-30', 'JK987654L', 'Staff', 42000, '2016-07-10', 'B2'),

('S8', 'Yuki', 'Matsuka', '707 Redwood St, City2, Post2', '101-101-1010', 'Female', '1983-09-28', 'LM123456N', 'Staff', 39000, '2019-05-15', 'B2'),

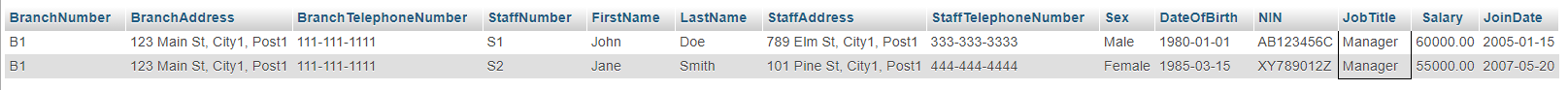
('S9', 'Tom', 'Wilson', '808 Pineapple St, City1, Post1', '202-202-2020', 'Male', '1989-07-08', 'NO876543P', 'Staff', 41000, '2017-02-20', 'B1');

[INSERT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/insert.html) INTO NextOfKin (StaffNumber, FullName, Relationship, NextOfKinAddress, NextOfKinTelephoneNumber) [VALUES](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/miscellaneous-functions.html%23function_values) ('S1', 'Mary Doe', 'Spouse', '789 Elm St, City1, Post1', '333-333-3334'), ('S2', 'Jack Smith', 'Child', '101 Pine St, City1, Post1', '444-444-4445'), ('S3', 'Temari Nara', 'Spouse', '202 Maple St, City2, Pos t2', '555-555-5556'), ('S4', 'Alex Williams', 'Child', '303 Birch St, City2, Post2', '666-666-6667'), ('S5', 'Asuna Kazuto', 'Spouse', '404 Cedar St, City1, Post1', '777-777-7778'), ('S6', 'John Jones', 'Child', '505 Walnut St, City1, Post1', '888-888-8889'), ('S7', 'Laura Miller', 'Spouse', '606 Sycamore St, City2, Post2', '999-999-9990'), ('S8', 'Jin Matsuka', 'Child', '707 Redwood St, City2, Post2', '101-101-1011'), ('S9', 'Alice Wilson', 'Spouse', '808 Pineapple St, City1, Post1', '202-202-2021');

**b) Produce a report listing the details of staff at each branch office (Manager).**

-- Query to list details of staff at each branch office—

[SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) B.BranchNumber, B.Address AS BranchAddress, B.TelephoneNumber AS BranchTelephoneNumber, S.StaffNumber, S.FirstName, S.LastName, S.Address AS StaffAddress, S.TelephoneNumber AS StaffTelephoneNumber, S.Sex, S.DateOfBirth, S.NIN, S.JobTitle, S.Salary, S.JoinDate FROM BranchOffice B JOIN Staff S ON B.BranchNumber = S.BranchNumber WHERE S.JobTitle = 'Manager';

Note: Please zoom in the image below for a better view.

**c ) Produce a list of staff supervised by a named Supervisor (Manager and Supervisor).**

[SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) Subordinate.StaffNumber AS Subordinate\_StaffNumber, Subordinate.FirstName AS Subordinate\_FirstName, Subordinate.LastName AS Subordinate\_LastName, Subordinate.JobTitle AS Subordinate\_JobTitle, Supervisor.FirstName AS Supervisor\_FirstName, Supervisor.LastName AS Supervisor\_LastName FROM Staff AS Subordinate JOIN Staff AS Supervisor ON Subordinate.BranchNumber = Supervisor.BranchNumber WHERE Supervisor.FirstName = 'Shikimaru' [OR](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/logical-operators.html%23operator_or) Supervisor.FirstName = 'John';



**d) Produce a list of Supervisors at each branch office (Manager and Supervisor).**

[SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) B.BranchNumber, B.Address AS BranchAddress, M.FirstName AS Manager\_FirstName, M.LastName AS Manager\_LastName, M.JobTitle AS Manager\_JobTitle, S.FirstName AS Supervisor\_FirstName, S.LastName AS Supervisor\_LastName, S.JobTitle AS Supervisor\_JobTitle FROM BranchOffice B [LEFT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/string-functions.html%23function_left) JOIN Staff M ON B.BranchNumber = M.BranchNumber [AND](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/logical-operators.html%23operator_and) M.JobTitle = 'Manager' [LEFT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/string-functions.html%23function_left) JOIN Staff S ON B.BranchNumber = S.BranchNumber [AND](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/logical-operators.html%23operator_and) S.JobTitle = 'Supervisor';



**e ) Create and maintain records recording the details of property for rent (and their  owners) available at each branch office (Supervisor).**

**--**Create tables for Owner and Property for rent.

[CREATE](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/create-table.html) [TABLE](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/create-table.html) Owner ( OwnerID INT PRIMARY KEY AUTO\_INCREMENT, OwnerFirstName VARCHAR(50), OwnerLastName VARCHAR(50), OwnerAddress VARCHAR(255), OwnerTelephoneNumber VARCHAR(20) );

[CREATE](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/create-table.html) [TABLE](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/create-table.html) Property ( PropertyID INT PRIMARY KEY AUTO\_INCREMENT, PropertyName VARCHAR(100), PropertyAddress VARCHAR(255), PropertyType VARCHAR(50), NumBedrooms INT, NumBathrooms INT, MonthlyRent DECIMAL(10, 2), BranchNumber VARCHAR(10), OwnerID INT, FOREIGN KEY (BranchNumber) REFERENCES BranchOffice(BranchNumber), FOREIGN KEY (OwnerID) REFERENCES Owner(OwnerID) );

-- Insert sample data for property owners—

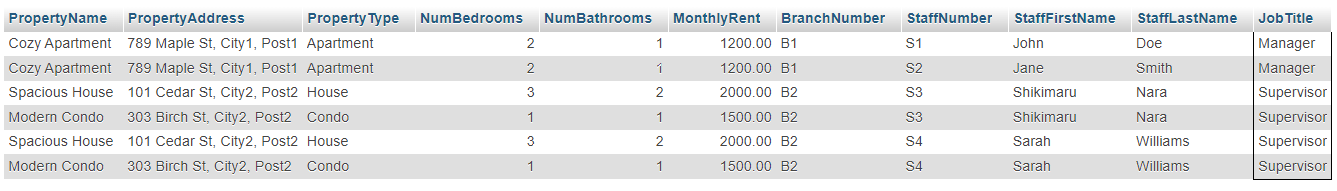
[INSERT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/insert.html) INTO Owner (OwnerFirstName, OwnerLastName, OwnerAddress, OwnerTelephoneNumber) [VALUES](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/miscellaneous-functions.html%23function_values) ('John', 'Smith', '123 Oak St, City1, Post1', '111-111-1111'), ('Jane', 'Doe', '456 Pine St, City2, Post2', '222-222-2222');

-- Insert sample data for properties—

[INSERT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/insert.html) INTO Property (PropertyName, PropertyAddress, PropertyType, NumBedrooms, NumBathrooms, MonthlyRent, BranchNumber, OwnerID) [VALUES](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/miscellaneous-functions.html%23function_values) ('Cozy Apartment', '789 Maple St, City1, Post1', 'Apartment', 2, 1, 1200.00, 'B1', 1), ('Spacious House', '101 Cedar St, City2, Post2', 'House', 3, 2, 2000.00, 'B2', 2), ('Modern Condo', '303 Birch St, City2, Post2', 'Condo', 1, 1, 1500.00, 'B2', 1);

**f) Produce a report listing the details of property for rent at each branch office (all staff).**

[SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) P.PropertyName, P.PropertyAddress, P.PropertyType, P.NumBedrooms, P.NumBathrooms, P.MonthlyRent, B.BranchNumber, S.StaffNumber, S.FirstName AS StaffFirstName, S.LastName AS StaffLastName, S.JobTitle FROM Property P JOIN BranchOffice B ON P.BranchNumber = B.BranchNumber JOIN Staff S ON B.BranchNumber = S.BranchNumber WHERE S.JobTitle [IN](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/comparison-operators.html%23function_in) ('Manager', 'Supervisor');



**g) Produce a list of properties for rent managed by a specific member of staff  (Supervisor).**

[SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) P.PropertyName, P.PropertyAddress, P.PropertyType, P.NumBedrooms, P.NumBathrooms, P.MonthlyRent, B.BranchNumber, S.StaffNumber, S.FirstName AS StaffFirstName, S.LastName AS StaffLastName FROM Property P JOIN BranchOffice B ON P.BranchNumber = B.BranchNumber JOIN Staff S ON B.BranchNumber = S.BranchNumber WHERE S.JobTitle = 'Supervisor' [AND](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/logical-operators.html%23operator_and) CONCAT(S.FirstName, ' ', S.LastName) = 'Shikimaru Nara';



**h) Create and maintain records describing the details of prospective renters at each  branch office (Supervisor).**

--Create table for renters and interviews--

[CREATE](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/create-table.html) [TABLE](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/create-table.html) Renters ( RenterNumber INT AUTO\_INCREMENT PRIMARY KEY, FirstName VARCHAR(50), LastName VARCHAR(50), Address VARCHAR(255), TelephoneNumber VARCHAR(20), PreferredAccommodation VARCHAR(100), MaxRent DECIMAL(10, 2) );

[CREATE](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/create-table.html) [TABLE](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/create-table.html) Interview ( InterviewID INT AUTO\_INCREMENT PRIMARY KEY, InterviewDate DATE, StaffNumber VARCHAR(10), RenterNumber INT, GeneralComments TEXT, FOREIGN KEY (StaffNumber) REFERENCES Staff(StaffNumber), FOREIGN KEY (RenterNumber) REFERENCES Renters(RenterNumber) );

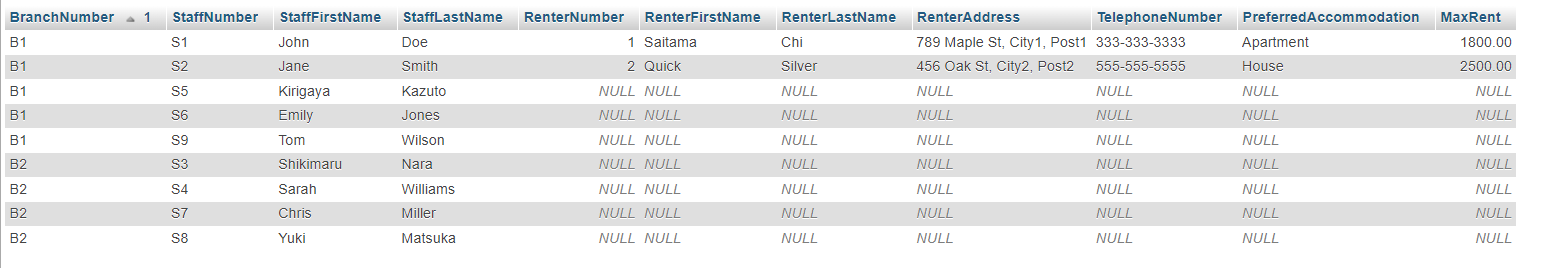
--Insert Data for renters and interviews—

[INSERT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/insert.html) INTO Renters (FirstName, LastName, Address, TelephoneNumber, PreferredAccommodation, MaxRent) [VALUES](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/miscellaneous-functions.html%23function_values) ('Saitama', 'Chi', '789 Maple St, City1, Post1', '333-333-3333', 'Apartment', 1800.00), ('Quick', 'Silver', '456 Oak St, City2, Post2', '555-555-5555', 'House', 2500.00);

[INSERT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/insert.html) INTO Interview (InterviewDate, StaffNumber, RenterNumber, GeneralComments) [VALUES](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/miscellaneous-functions.html%23function_values) ('2024-02-01', 'S1', 1, 'Client expressed interest in a pet-friendly apartment.'), ('2024-02-03', 'S2', 2, 'Client is looking for a property with a spacious backyard.');

**i) Produce a list of prospective renters registered at each branch office (all staff).**

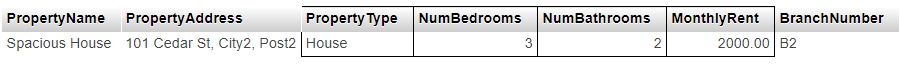
[SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) B.BranchNumber, S.StaffNumber, S.FirstName AS StaffFirstName, S.LastName AS StaffLastName, R.RenterNumber, R.FirstName AS RenterFirstName, R.LastName AS RenterLastName, R.Address AS RenterAddress, R.TelephoneNumber, R.PreferredAccommodation, R.MaxRent FROM BranchOffice B JOIN Staff S ON B.BranchNumber = S.BranchNumber [LEFT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/string-functions.html%23function_left) JOIN Interview I ON S.StaffNumber = I.StaffNumber [LEFT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/string-functions.html%23function_left) JOIN Renters R ON I.RenterNumber = R.RenterNumber ORDER BY B.BranchNumber, S.StaffNumber, R.RenterNumber;



**j) Search for properties for rent that satisfy a prospective renter’s requirements (all  staff).**

-- Assuming a prospective renter's preferences are known (e.g., 'House' with 3 bedrooms, 2 bathrooms, and a monthly rent not exceeding 2000.00) –

[SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) P.PropertyName, P.PropertyAddress, P.PropertyType, P.NumBedrooms, P.NumBathrooms, P.MonthlyRent, B.BranchNumber FROM Property P JOIN BranchOffice B ON P.BranchNumber = B.BranchNumber WHERE P.PropertyType = 'House' [AND](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/logical-operators.html%23operator_and) P.NumBedrooms = 3 [AND](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/logical-operators.html%23operator_and) P.NumBathrooms = 2 [AND](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/logical-operators.html%23operator_and) P.MonthlyRent <= 2000.00;



**k) Create and maintain records holding the details of viewings by prospective renters to properties for rent (all staff).**

--Create Table for Viewings--

[CREATE](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/create-table.html) [TABLE](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/create-table.html) Viewings ( ViewingID INT AUTO\_INCREMENT PRIMARY KEY, PropertyID INT, RenterNumber INT, ViewingDate DATE, Comments TEXT, FOREIGN KEY (PropertyID) REFERENCES Property(PropertyID), FOREIGN KEY (RenterNumber) REFERENCES Renters(RenterNumber) );

--Insert Data—

[INSERT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/insert.html) INTO Viewings (PropertyID, RenterNumber, ViewingDate, Comments) [VALUES](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/miscellaneous-functions.html%23function_values) (1, 1, '2024-02-05', 'Liked the kitchen and living room layout.'), (2, 2, '2024-02-08', 'Felt the bedrooms were too small.'), (3, 1, '2024-02-10', 'Loved the spacious backyard.'), (1, 2, '2024-02-12', 'Not happy with the parking space.');

**l) Produce a report listing the comments of prospective renters concerning a specific  property for rent (all staff).**

[SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) P.PropertyName, V.ViewingDate, R.FirstName AS RenterFirstName, R.LastName AS RenterLastName, V.Comments FROM viewings V JOIN Renters R ON V.RenterNumber = R.RenterNumber JOIN Property P ON V.PropertyID = P.PropertyID WHERE P.PropertyID = 1;



**m ) Create and maintain records detailing the adverts placed in newspapers for  properties for rent (all staff).**

--Create a table for advertisements—

[CREATE](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/create-table.html) [TABLE](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/create-table.html) Adverts ( AdvertID INT AUTO\_INCREMENT PRIMARY KEY, PropertyID INT, NewspaperName VARCHAR(100), AdvertDate DATE, FOREIGN KEY (PropertyID) REFERENCES Property(PropertyID) );

--Insert Data—

[INSERT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/insert.html) INTO Adverts (PropertyID, NewspaperName, AdvertDate) [VALUES](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/miscellaneous-functions.html%23function_values) (1, 'City Gazette', '2024-02-15'), (2, 'Metro News', '2024-02-18'), (3, 'Glasgow Times', '2024-02-20');

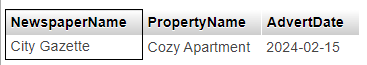
**n) Produce a list of all adverts for a specific property (Supervisor).**

[SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) P.PropertyName, A.NewspaperName, A.AdvertDate FROM Adverts A JOIN Property P ON A.PropertyID = P.PropertyID WHERE P.PropertyID = 1;



**o) Produce a list of all adverts placed in a specific newspaper (Supervisor).**

[SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) A.NewspaperName, P.PropertyName, A.AdvertDate FROM Adverts A JOIN Property P ON A.PropertyID = P.PropertyID WHERE A.NewspaperName = 'City Gazette';



**p) Create and maintain records describing the details of lease agreements between a  renter and a property (Manager and Supervisor).**

--Create Table--

[CREATE](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/create-table.html) [TABLE](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/create-table.html) LeaseAgreements ( LeaseNumber INT AUTO\_INCREMENT PRIMARY KEY, PropertyID INT, RenterNumber INT, MonthlyRent DECIMAL(10, 2), MethodOfPayment VARCHAR(50), RentalDeposit DECIMAL(10, 2), IsDepositPaid BOOLEAN, RentStartDate DATE, RentEndDate DATE, DurationMonths INT, StaffNumber VARCHAR(10), FOREIGN KEY (PropertyID) REFERENCES Property(PropertyID), FOREIGN KEY (RenterNumber) REFERENCES Renters(RenterNumber), FOREIGN KEY (StaffNumber) REFERENCES Staff(StaffNumber) );

--Insert Data—

[INSERT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/insert.html) INTO LeaseAgreements (PropertyID, RenterNumber, MonthlyRent, MethodOfPayment, RentalDeposit, IsDepositPaid, RentStartDate, RentEndDate, DurationMonths, StaffNumber) [VALUES](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/miscellaneous-functions.html%23function_values) (1, 1, 1800.00, 'Bank Transfer', 1800.00, TRUE, '2024-03-01', '2025-02-28', 12, 'S1'), (2, 2, 2500.00, 'Cheque', 2500.00, FALSE, '2024-04-01', '2025-03-31', 12, 'S2');

**q) List the details of the lease agreement for a specific property (Manager and  Supervisor).**

[SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) L.LeaseNumber, P.PropertyName, R.FirstName AS RenterFirstName, R.LastName AS RenterLastName, L.MonthlyRent, L.MethodOfPayment, L.RentalDeposit, L.IsDepositPaid, L.RentStartDate, L.RentEndDate, L.DurationMonths, S.FirstName AS StaffFirstName, S.LastName AS StaffLastName FROM LeaseAgreements L JOIN Property P ON L.PropertyID = P.PropertyID JOIN Renters R ON L.RenterNumber = R.RenterNumber JOIN Staff S ON L.StaffNumber = S.StaffNumber WHERE P.PropertyID = 1;

**r) Create and maintain records describing the details of inspections of properties for  rent (all staff).**

**--**Create table for property inspection--

[CREATE](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/create-table.html) [TABLE](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/create-table.html) PropertyInspections ( InspectionID INT AUTO\_INCREMENT PRIMARY KEY, PropertyID INT, InspectionDate DATE, StaffNumber VARCHAR(10), Comments TEXT, FOREIGN KEY (PropertyID) REFERENCES Property(PropertyID), FOREIGN KEY (StaffNumber) REFERENCES Staff(StaffNumber) );

--Insert Data—

[INSERT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/insert.html) INTO PropertyInspections (PropertyID, InspectionDate, StaffNumber, Comments) [VALUES](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/miscellaneous-functions.html%23function_values) (1, '2024-03-15', 'S1', 'Property in good condition. No issues observed.'), (2, '2024-03-20', 'S2', 'Minor repairs needed in the bathroom.');

**s) Produce a list of all inspections of specific property (Supervisor).**

[SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) P.PropertyName, PI.InspectionDate, S.FirstName AS StaffFirstName, S.LastName AS StaffLastName, PI.Comments FROM PropertyInspections PI JOIN Property P ON PI.PropertyID = P.PropertyID JOIN Staff S ON PI.StaffNumber = S.StaffNumber WHERE P.PropertyID = 1;

