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[40.3 Ashfaq Rahim (SP19-BCS-003) 55](#_Toc123093786)

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# Lab 6

## Common Solution

-- 1. Create Database

create database DreamHome

-- 2. Set My Working Database in Query Editor

use DreamHome

-- 3. Create Tables

-- Branch

create table Branch (branchNo varchar(20) NOT NULL Primary Key, street varchar(100) NOT NULL, city varchar(50) NOT NULL,

postcode varchar(20) NOT NULL);

-- Staff

create table Staff (staffNo varchar(20) NOT NULL PRIMARY KEY, fName varchar(50) NOT NULL, lName varchar(50) NOT NULL,

position varchar(50) NOT NULL, sex varchar(1) NOT NULL, DOB DateTime NOT NULL, salary DECIMAL NOT NULL,

branchNo varchar(20) NOT NULL References Branch(branchNo));

-- Client

create table Client (clientNo varchar(20) NOT NULL PRIMARY KEY, fName varchar(50) NOT NULL, lName varchar(50) NOT NULL,

telNo varchar(20) NOT NULL, prefType varchar(50) NOT NULL, maxRent DECIMAL NOT NULL)

-- PrivateOwner

create table PrivateOwner (ownerNo varchar(20) NOT NULL PRIMARY KEY, fName varchar(50) NOT NULL, lName varchar(50) NOT NULL,

[address] varchar(50) NOT NULL, telNo varchar(20) NOT NULL)

-- PropertyForRent

create table PropertyForRent (propertyNo varchar(20) NOT NULL PRIMARY KEY, street varchar(100) NOT NULL, city varchar(50) NOT NULL,

postcode varchar(20) NOT NULL, type varchar(10) NOT NULL, rooms int NOT NULL, rent DECIMAL NOT NULL,

ownerNo varchar(20) References PrivateOwner(ownerNo), staffNo varchar(20) NOT NULL References Staff(staffNo),

branchNo varchar(20) NOT NULL References Branch(branchNo));

-- Viewing

create table Viewing (clientNo varchar(20) NOT NULL References Client(clientNo),

propertyNo varchar(20) NOT NULL References PropertyForRent(propertyNo), viewDate DateTime NOT NULL, comment varchar(200) NOT NULL)

-- Registration

create table Registration(clientNo varchar(20) NOT NULL References Client(clientNo),

branchNo varchar(20) NOT NULL References Branch(branchNo),staffNo varchar(20) NOT NULL References Staff(staffNo),dateJoined DateTime NOT NULL)

-- 4.2 Multiple Rows Example

INSERT into Branch (branchNo, street, city, postcode)

VALUES

('B001', 'H#79 I-10/2', 'ISB', '52000'),

('B002', 'H#78 Supply', 'ABT', '53000'),

('B003', 'H#79 I-10/2', 'ISB', '52000'),

('B004','H#78 Mandia', 'ABT', '53000'),

('B005','H#85 Supply', 'ABT', '53000'),

('B006','H#86 G-6', 'ISB', '52000'),

('B007','H#895 Cantt', 'ABT', '53000'),

('B008','H#55 Kalapul', 'ABT', '53000'),

('B009','H#986 Beer', 'HAR', '22620'),

('B010','H#12 Cantt', 'HAV', '22500'),

('B011','H#565 KTS', 'HAR', '22620'),

('B012','H#123 KTS', 'HAR', '22620'),

('B013','H#985 F-9', 'ISB', '52000'),

('B014','H#120 DHA', 'LHR', '54000'),

('B015','H#76 TIP', 'HAR', '22620'),

('B016','H#33 Baldher', 'HAR', '22620'),

('B017','H#22 SALHAD', 'ABT', '53000'),

('B018','H#11 HARNOI', 'ABT', '53000'),

('B019','H#13 H-9', 'ISB', '52000'),

('B020','H#99 FAIZABAD', 'RWP', '44000'),

('B021','H#164 PANIAN', 'HAR', '22620')

insert into Staff (staffNo, fName, lName, position, sex, DOB, salary, branchNo)

VALUES

('SA9', 'Mary', 'Howe', 'Assistant', 'F', '9/11/1988', 20000, 'B002'),

('SG14', 'David', 'Ford', 'Supervisor', 'M','11/9/1987', 100000, 'B003'),

('SG37', 'An', 'Beech', 'Assistant', 'F','12/8/1986', 90000, 'B003'),

('SG5', 'Susa', 'Brand', 'Manager', 'F', '5/9/1989', 120000, 'B003'),

('SL21', 'Joh', 'White', 'Manager', 'M', '2/12/1992', 100000, 'B004'),

('SL41', 'Julie', 'Lee', 'Assistant', 'F', '8/3/1990', 50000, 'B002'),

('SP98', 'Akbar', 'Shah', 'Assistant Manager', 'M', '9/8/1996', 70000, 'B005'),

('SK32', 'Mahrukh', 'Bibi', 'Customer Service', 'F', '10/4/1994', 60000, 'B010'),

('SB83', 'Ahmad', 'Hassan', 'Clerk', 'M', '4/6/1991', 40000, 'B009'),

('SR68', 'Hamid', 'Ali', 'Security Guard', 'M', '9/12/1982', 10000, 'B007'),

('SI12', 'Akhtar', 'Rasheed', 'Security Officer', 'M', '8/9/1989', 50000, 'B012'),

('SV56', 'Hajra', 'Khan', 'Customer Service', 'F', '3/4/1992', 60000, 'B006'),

('ST91', 'Maria', 'Kareem', 'Customer Service Manager', 'M', '1/7/1991', 80000, 'B008'),

('SO61', 'Kamran', 'Khan', 'Salesperson', 'M', '9/2/1987', 70000, 'B020'),

('SQ19', 'Khurshid', 'Akram', 'Finance Manager', 'M', '12/8/1982', 80000, 'B011'),

('SJ37', 'Sara', 'Majeed', 'HR Manager', 'F', '12/6/1981', 60000, 'B019'),

('SD52', 'Parvaiz', 'Khan', 'Security Guard', 'M', '11/12/1985', 15000, 'B013'),

('ST26', 'Bushra', 'Khan', 'Salesperson', 'F', '5/10/1990', 60000, 'B017'),

('SN99', 'Khalid', 'Kamal', 'Security Guard', 'M', '12/12/1992', 16000, 'B014'),

('SF7', 'Mubashir', 'Naveed', 'Receptionist', 'M', '1/12/1996', 30000, 'B016'),

('SG76', 'Awais', 'Qamar', 'Operations Manager', 'M', '9/4/1988', 80000, 'B015'),

('SW84', 'Muneer', 'Zaman', 'Marketing Manager', 'M', '7/1/1992', 70000, 'B021'),

('SZ34', 'Sana', 'Khan', 'Receptionist', 'F', '5/12/1996', 50000, 'B018')

insert into Client (clientNo , fName, lName, telNo, prefType, maxRent)

VALUES

('A001', 'Imad', 'Ahmad', '03004463173', '1 bed Apartment', '5000'),

('A002', 'Akbar', 'Majeed', '03125648789', 'Shared Apartment', '6000'),

('A003','Farukh','Javed','03468965741','Townhome','70000'),

('A004','Imran','Hashmi','03034321986','Bungalow','100000'),

('A005','Farhat','Javed','03218954219','Small Vacation Cottage','80000'),

('A006','Sajjad','Babar','03364512789','Multi Family home','180000'),

('A007','Sidhu','Moosewala','03111111111','3 room apartment','60000'),

('A008','Arshid','Khan','03211236957','Double story house','130000'),

('A009','Javed','Shiekh','03489137982','Single Family home','80000'),

('A010','Saira','Muneer','03007319654','Villa','500000'),

('A011','Poorab','Kumar','03184967852','Shared Apartment','9000'),

('A012','Faisal','Khan','03467845123','Townhome','75000'),

('A013','Abdus','Salam','03096598753','Villa','500000'),

('A014','Rab','Nawaz','03416385951','Bungalow','110000'),

('A015','Obaid','Sheikh','03426284759','Multi Family Home','160000'),

('A016','Qamar','Javed','03134679169','Villa','600000'),

('A017','Jannat','Mirza','03166969969','Codominium','90000'),

('A018','Babu','Rao','03104916872','Shared Apartment','15000'),

('A019','Sania','Mirza','03451535985','Bungalow','90000'),

('A020','Sham','Idrees','03108020500','1 bed Apartment','5000'),

('A021','Javed','Kazmi','03165288572','Single Family Home','90000')

insert into PrivateOwner (ownerNo, fName, lName, address, telNo)

values

('K01','Javed','Aziz','H# 85 Mandia, ATD ','03001245985'),

('K02','Sana','Bucha','H# 21 I-10, ISB','03368754953'),

('K03','Ali','Khan','H#45 KTS, HAR','03314915375'),

('K04','Ahmed','Akhtar','H#20 Supply, ATD','03457296348'),

('K05','Kabir','Singh','H#99 Salhad, ATD','03348719652'),

('K06','Parvaiz','Musharraf','H#86 G-6, ISB','03321596548'),

('K07','Benazir','Shah','H#286 DHA, KAR','03216598174'),

('K08','Jaan','Raheem','H#100 Cantt, LHR','03012000563'),

('K09','Umar','Gul','H#91 Cantt, HAV','03485265154'),

('K10','Raheem','Pardesi','H#20 H-6, ISB','03259826547'),

('K11','Hubaib','Naeem','H#65 G-9, ISB','03185400163'),

('K12','Qaiser','Khattak','H#156 Saddar, PEW','03420096050'),

('K13','Abdullah','Shah','H#48 Topi, SWB','03083032021'),

('K14','Babar','Khan','H#25 TIP,HAR','03058574321'),

('K15','Rehm','Nawaz','H#87 I-4, ISB','03065491032'),

('K16','Hamza','Akbar','H#152 Panian, HAR','03024595687'),

('K17','Nasir','Khan','H#756 Uni road, PEW','03461289567'),

('K18','Alex','Bhatti','H#301 Bahria Town, KAR','03487006320'),

('K19','Hareem','Shah','H#186 Cantt, MAN','03215906903'),

('K20','Waqar','Zaka','H#564 North Nazimabad,KAR','03237506501'),

('K21','Aamir','Liaqat','H#487 Gulshan Iqbal, KAR','03196585021')

insert into PropertyForRent (propertyNo, street, city, postcode, [type], rooms, rent, ownerNo, staffNo, branchNo)

values

('P01','S# 10','ISB','52000','Apartment','2','15000','K01','SA9','B010'),

('P02','S# 2','KAR','72400','Apartment','3','20000','K19','SG14','B012'),

('P03','S# 5','PEW','25000','Single Fam','4','50000','K09','SG37','B001'),

('P04','S# 1','HAV','22500','Villa','10','170000','K14','SG5','B002'),

('P05','S# 1','HAR','22620','Bungalow','4','70000','K10','SL21','B009'),

('P06','S# 2','LHR','54000','Townhome','3','40000','K03','SL41','B015'),

('P07','S# 9','SWB','23430','Single Fam','3','45000','K12','SP98','B013'),

('P08','S# 6','ATD','53000','Apartment','2','12000','K20','SK32','B003'),

('P09','S# 7','MAN','21300','Bungalow','4','60000','K07','SG76','B004'),

('P10','S# 8','ISB','52000','Condo','5','50000','K21','SG76','B018'),

('P11','S# 5','ISB','52000','2 Story','6','100000','K18','ST26','B016'),

('P12','S# 4','ATD','53000','Single Fam','4','45000','K04','SV56','B005'),

('P13','S# 5','ISB','52000','Apartment','2','18000','K13','ST91','B021'),

('P14','S# 6','KAR','72400','Townhome','3','35000','K11','SO61','B008'),

('P15','S# 9','LHR','54000','Apartment','2','16000','K15','SQ19','B014'),

('P16','S# 5','HAR','22620','Multi Fam','8','95000','K05','SJ37','B020'),

('P17','S# 3','ATD','53000','Apartment','2','10000','K17','SW84','B006'),

('P18','S# 7','ATD','53000','Townhome','4','50000','K08','ST26','B019'),

('P19','S# 4','ATD','53000','Single Fam','4','35000','K06','ST26','B011'),

('P20','S# 10','PEW','25000','2 Story','7','70000','K16','SF7','B017'),

('P21','S# 3','ISB','53000','Single Fam','3','30000','K02','SG76','B007')

insert into Viewing (clientNo, propertyNo, viewDate, comment)

values

('A013','P04','10/10/2020','Status Pending'),

('A001','P17','12/25/2018','Rented'),

('A014','P09','5/19/2019','Rented'),

('A011','P01','7/1/2019','Rented'),

('A006','P16','8/8/2020','Rented'),

('A019','P05','2/18/2018','Rented'),

('A010','P04','10/10/2020','Status Pending'),

('A020','P01','5/25/2018','Rented'),

('A007','P02','3/8/2019','Rented'),

('A017','P10','5/6/2019','Rented'),

('A002','P13','2/20/2020','Rented'),

('A021','P07','9/9/2019','Rented'),

('A009','P03','1/5/2020','Rented'),

('A015','P16','10/10/2020','Status Pending'),

('A004','P09','10/10/2020','Status Pending'),

('A008','P11','8/26/2019','Rented'),

('A018','P15','9/22/2018','Rented'),

('A003','P06','10/8/2019','Rented'),

('A016','P04','11/11/2018','Rented'),

('A012','P14','12/25/2019','Rented'),

('A005','P09','10/10/2020','Status Pending')

insert into Registration (clientNo, branchNo, staffNo, dateJoined)

values

('A001','B010','SG5','10/5/2018'),

('A002','B011','SO61','9/6/2018'),

('A003','B005','SW84','7/5/2018'),

('A004','B008','SP98','12/9/2018'),

('A005','B016','ST26','11/25/2018'),

('A006','B019','SG5','10/29/2018'),

('A007','B001','SW84','5/30/2018'),

('A008','B018','SG76','6/12/2018'),

('A009','B009','ST26','12/12/2018'),

('A010','B012','SW84','6/29/2018'),

('A011','B017','SP98','8/16/2018'),

('A012','B004','SO61','12/18/2018'),

('A013','B021','SG5','11/11/2018'),

('A014','B013','ST26','11/15/2018'),

('A015','B020','SW84','9/11/2018'),

('A016','B003','SG76','1/5/2019'),

('A017','B014','SO61','1/25/2019'),

('A018','B006','SG76','2/3/2019'),

('A019','B015','SO61','1/20/2019'),

('A020','B002','ST26','11/8/2018'),

('A021','B007','SW84','12/30/2018')

Select distinct(city) from Branch order by city desc;

## Abdul Haseeb Khan (SP19-BCS-001)

-- 1. Create Database

create database DreamHome

-- 2. Set My Working Database in Query Editor

use DreamHome

-- 3. Create Tables

-- Branch

create table Branch (branchNo varchar(20) NOT NULL Primary Key, street varchar(100) NOT NULL, city varchar(50) NOT NULL,

postcode varchar(20) NOT NULL);

-- Staff

create table Staff (staffNo varchar(20) NOT NULL PRIMARY KEY, fName varchar(50) NOT NULL, lName varchar(50) NOT NULL,

position varchar(50) NOT NULL, sex varchar(1) NOT NULL, DOB DateTime NOT NULL, salary DECIMAL NOT NULL,

branchNo varchar(20) NOT NULL References Branch(branchNo));

-- Client

create table Client (clientNo varchar(20) NOT NULL PRIMARY KEY, fName varchar(50) NOT NULL, lName varchar(50) NOT NULL,

telNo varchar(20) NOT NULL, prefType varchar(50) NOT NULL, maxRent DECIMAL NOT NULL)

-- PrivateOwner

create table PrivateOwner (ownerNo varchar(20) NOT NULL PRIMARY KEY, fName varchar(50) NOT NULL, lName varchar(50) NOT NULL,

[address] varchar(50) NOT NULL, telNo varchar(20) NOT NULL)

-- PropertyForRent

create table PropertyForRent (propertyNo varchar(20) NOT NULL PRIMARY KEY, street varchar(100) NOT NULL, city varchar(50) NOT NULL,

postcode varchar(20) NOT NULL, type varchar(10) NOT NULL, rooms int NOT NULL, rent DECIMAL NOT NULL,

ownerNo varchar(20) References PrivateOwner(ownerNo), staffNo varchar(20) NOT NULL References Staff(staffNo),

branchNo varchar(20) NOT NULL References Branch(branchNo));

-- Viewing

create table Viewing (clientNo varchar(20) NOT NULL References Client(clientNo),

propertyNo varchar(20) NOT NULL References PropertyForRent(propertyNo), viewDate DateTime NOT NULL, comment varchar(200) NOT NULL)

-- Registration

create table Registration(clientNo varchar(20) NOT NULL References Client(clientNo),

branchNo varchar(20) NOT NULL References Branch(branchNo),staffNo varchar(20) NOT NULL References Staff(staffNo),dateJoined DateTime NOT NULL)

insert into PropertyForRent (propertyNo, street, city, postcode, [type], rooms, rent, ownerNo, staffNo, branchNo)

values

('P01','S# 10','ISB','52000','Apartment','2','15000','K01','SA9','B010'),

('P02','S# 2','KAR','72400','Apartment','3','20000','K19','SG14','B012'),

('P03','S# 5','PEW','25000','Single Fam','4','50000','K09','SG37','B001'),

('P04','S# 1','HAV','22500','Villa','10','170000','K14','SG5','B002'),

('P05','S# 1','HAR','22620','Bungalow','4','70000','K10','SL21','B009'),

('P06','S# 2','LHR','54000','Townhome','3','40000','K03','SL41','B015'),

('P07','S# 9','SWB','23430','Single Fam','3','45000','K12','SP98','B013'),

('P08','S# 6','ATD','53000','Apartment','2','12000','K20','SK32','B003'),

('P09','S# 7','MAN','21300','Bungalow','4','60000','K07','SG76','B004'),

('P10','S# 8','ISB','52000','Condo','5','50000','K21','SG76','B018'),

('P11','S# 5','ISB','52000','2 Story','6','100000','K18','ST26','B016')

Select distinct(city) from Branch order by city desc;

Reviewed by:

Fahad Afzal (SP19-BCS-006)

Comments:

Code Working. Abdul Haseeb provided data for the PropertyForRent table.

Problems:

No problem at all

Rating: 1 – 10

10

## Ashfaq Rahim (SP19-BCS-003)

1 -- create database;

create database DreamHome

-- 2. Set My Working Database in Query Editor

use DreamHome;

-- 3. Create Tables

-- Branch

create table Branch (branchNo varchar(20) NOT NULL Primary Key, street varchar(100) NOT NULL, city varchar(50) NOT NULL,

postcode varchar(20) NOT NULL);

-- Staff

create table Staff (staffNo varchar(20) NOT NULL PRIMARY KEY, fName varchar(50) NOT NULL, lName varchar(50) NOT NULL,

position varchar(50) NOT NULL, sex varchar(1) NOT NULL, DOB DateTime NOT NULL, salary DECIMAL NOT NULL,

branchNo varchar(20) NOT NULL References Branch(branchNo));

-- Client

create table Client (clientNo varchar(20) NOT NULL PRIMARY KEY, fName varchar(50) NOT NULL, lName varchar(50) NOT NULL,

telNo varchar(20) NOT NULL, prefType varchar(50) NOT NULL, maxRent DECIMAL NOT NULL)

-- PrivateOwner

create table PrivateOwner (ownerNo varchar(20) NOT NULL PRIMARY KEY, fName varchar(50) NOT NULL, lName varchar(50) NOT NULL,

[address] varchar(50) NOT NULL, telNo varchar(20) NOT NULL)

-- PropertyForRent

create table PropertyForRent (propertyNo varchar(20) NOT NULL PRIMARY KEY, street varchar(100) NOT NULL, city varchar(50) NOT NULL,

postcode varchar(20) NOT NULL, type varchar(10) NOT NULL, rooms int NOT NULL, rent DECIMAL NOT NULL,

ownerNo varchar(20) References PrivateOwner(ownerNo), staffNo varchar(20) NOT NULL References Staff(staffNo),

branchNo varchar(20) NOT NULL References Branch(branchNo));

-- Viewing

create table Viewing (clientNo varchar(20) NOT NULL References Client(clientNo),

propertyNo varchar(20) NOT NULL References PropertyForRent(propertyNo), viewDate DateTime NOT NULL, comment varchar(200) NOT NULL)

-- Registration

create table Registration(clientNo varchar(20) NOT NULL References Client(clientNo),

branchNo varchar(20) NOT NULL References Branch(branchNo),staffNo varchar(20) NOT NULL References Staff(staffNo),dateJoined DateTime NOT NULL)

4.2 Multiple Rows Example

INSERT into Branch (branchNo, street, city, postcode)

VALUES

('B001', 'H#79 I-10/2', 'ISB', '52000'),

('B002', 'H#78 Supply', 'ABT', '53000'),

('B003', 'H#79 I-10/2', 'ISB', '52000'),

('B004','H#78 Mandia', 'ABT', '53000'),

('B005','H#85 Supply', 'ABT', '53000'),

('B006','H#86 G-6', 'ISB', '52000'),

('B007','H#895 Cantt', 'ABT', '53000'),

('B008','H#55 Kalapul', 'ABT', '53000'),

('B009','H#986 Beer', 'HAR', '22620'),

('B010','H#12 Cantt', 'HAV', '22500'),

('B011','H#565 KTS', 'HAR', '22620'),

('B012','H#123 KTS', 'HAR', '22620'),

('B013','H#985 F-9', 'ISB', '52000'),

('B014','H#120 DHA', 'LHR', '54000'),

('B015','H#76 TIP', 'HAR', '22620'),

('B016','H#33 Baldher', 'HAR', '22620'),

('B017','H#22 SALHAD', 'ABT', '53000'),

('B018','H#11 HARNOI', 'ABT', '53000'),

('B019','H#13 H-9', 'ISB', '52000'),

('B020','H#99 FAIZABAD', 'RWP', '44000'),

('B021','H#164 PANIAN', 'HAR', '22620')

Reviewed by:.

Comments:

Problems:

Rating: 1 – 10

## Fahad Afzal (SP19-BCS-006)

-- 1. Create Database

create database DreamHome

-- 2. Set My Working Database in Query Editor

use DreamHome

-- 3. Create Tables

-- Branch

create table Branch (branchNo varchar(20) NOT NULL Primary Key, street varchar(100) NOT NULL, city varchar(50) NOT NULL,

postcode varchar(20) NOT NULL);

-- Staff

create table Staff (staffNo varchar(20) NOT NULL PRIMARY KEY, fName varchar(50) NOT NULL, lName varchar(50) NOT NULL,

position varchar(50) NOT NULL, sex varchar(1) NOT NULL, DOB DateTime NOT NULL, salary DECIMAL NOT NULL,

branchNo varchar(20) NOT NULL References Branch(branchNo));

-- Client

create table Client (clientNo varchar(20) NOT NULL PRIMARY KEY, fName varchar(50) NOT NULL, lName varchar(50) NOT NULL,

telNo varchar(20) NOT NULL, prefType varchar(50) NOT NULL, maxRent DECIMAL NOT NULL)

-- PrivateOwner

create table PrivateOwner (ownerNo varchar(20) NOT NULL PRIMARY KEY, fName varchar(50) NOT NULL, lName varchar(50) NOT NULL,

[address] varchar(50) NOT NULL, telNo varchar(20) NOT NULL)

-- PropertyForRent

create table PropertyForRent (propertyNo varchar(20) NOT NULL PRIMARY KEY, street varchar(100) NOT NULL, city varchar(50) NOT NULL,

postcode varchar(20) NOT NULL, type varchar(10) NOT NULL, rooms int NOT NULL, rent DECIMAL NOT NULL,

ownerNo varchar(20) References PrivateOwner(ownerNo), staffNo varchar(20) NOT NULL References Staff(staffNo),

branchNo varchar(20) NOT NULL References Branch(branchNo));

-- Viewing

create table Viewing (clientNo varchar(20) NOT NULL References Client(clientNo),

propertyNo varchar(20) NOT NULL References PropertyForRent(propertyNo), viewDate DateTime NOT NULL, comment varchar(200) NOT NULL)

--this table is for me

-- Registration

create table Registration(clientNo varchar(20) NOT NULL References Client(clientNo),

branchNo varchar(20) NOT NULL References Branch(branchNo),staffNo varchar(20) NOT NULL References Staff(staffNo),dateJoined DateTime NOT NULL)

**--work for me in group**

**--I have make and fill registration table.**

insert into Registration (clientNo, branchNo, staffNo, dateJoined)

values

('A001','B010','SG5','10/5/2018'),

('A002','B011','SO61','9/6/2018'),

('A003','B005','SW84','7/5/2018'),

('A004','B008','SP98','12/9/2018'),

('A005','B016','ST26','11/25/2018'),

('A006','B019','SG5','10/29/2018'),

('A007','B001','SW84','5/30/2018'),

('A008','B018','SG76','6/12/2018'),

('A009','B009','ST26','12/12/2018'),

('A010','B012','SW84','6/29/2018'),

('A011','B017','SP98','8/16/2018'),

('A012','B004','SO61','12/18/2018'),

('A013','B021','SG5','11/11/2018'),

('A014','B013','ST26','11/15/2018'),

('A015','B020','SW84','9/11/2018'),

('A016','B003','SG76','1/5/2019'),

('A017','B014','SO61','1/25/2019'),

('A018','B006','SG76','2/3/2019'),

('A019','B015','SO61','1/20/2019'),

('A020','B002','ST26','11/8/2018'),

('A021','B007','SW84','12/30/2018')

Reviewed by:.

Badar

Comments:

Complete the task according to the requirements.

Problems:

no

Rating: 1 – 10

10

## Hassaan Shahnawaz (SP19-BCS-008)

-- 1. Create Database

create database DreamHome

-- 2. Set My Working Database in Query Editor

use DreamHome

-- 3. Create Tables

-- Branch

create table Branch (branchNo varchar(20) NOT NULL Primary Key, street varchar(100) NOT NULL, city varchar(50) NOT NULL,

postcode varchar(20) NOT NULL);

-- Staff

create table Staff (staffNo varchar(20) NOT NULL PRIMARY KEY, fName varchar(50) NOT NULL, lName varchar(50) NOT NULL,

position varchar(50) NOT NULL, sex varchar(1) NOT NULL, DOB DateTime NOT NULL, salary DECIMAL NOT NULL,

branchNo varchar(20) NOT NULL References Branch(branchNo));

-- Client

create table Client (clientNo varchar(20) NOT NULL PRIMARY KEY, fName varchar(50) NOT NULL, lName varchar(50) NOT NULL,

telNo varchar(20) NOT NULL, prefType varchar(50) NOT NULL, maxRent DECIMAL NOT NULL)

-- PrivateOwner

create table PrivateOwner (ownerNo varchar(20) NOT NULL PRIMARY KEY, fName varchar(50) NOT NULL, lName varchar(50) NOT NULL,

[address] varchar(50) NOT NULL, telNo varchar(20) NOT NULL)

-- PropertyForRent

create table PropertyForRent (propertyNo varchar(20) NOT NULL PRIMARY KEY, street varchar(100) NOT NULL, city varchar(50) NOT NULL,

postcode varchar(20) NOT NULL, type varchar(10) NOT NULL, rooms int NOT NULL, rent DECIMAL NOT NULL,

ownerNo varchar(20) References PrivateOwner(ownerNo), staffNo varchar(20) NOT NULL References Staff(staffNo),

branchNo varchar(20) NOT NULL References Branch(branchNo));

-- Viewing

create table Viewing (clientNo varchar(20) NOT NULL References Client(clientNo),

propertyNo varchar(20) NOT NULL References PropertyForRent(propertyNo), viewDate DateTime NOT NULL, comment varchar(200) NOT NULL)

-- Registration

create table Registration(clientNo varchar(20) NOT NULL References Client(clientNo),

branchNo varchar(20) NOT NULL References Branch(branchNo),staffNo varchar(20) NOT NULL References Staff(staffNo),dateJoined DateTime NOT NULL)

-- 4.2 Multiple Rows Example

insert into PropertyForRent (propertyNo, street, city, postcode, [type], rooms, rent, ownerNo, staffNo, branchNo)

values

('P12','S# 4','ATD','53000','Single Fam','4','45000','K04','SV56','B005'),

('P13','S# 5','ISB','52000','Apartment','2','18000','K13','ST91','B021'),

('P14','S# 6','KAR','72400','Townhome','3','35000','K11','SO61','B008'),

('P15','S# 9','LHR','54000','Apartment','2','16000','K15','SQ19','B014'),

('P16','S# 5','HAR','22620','Multi Fam','8','95000','K05','SJ37','B020'),

('P17','S# 3','ATD','53000','Apartment','2','10000','K17','SW84','B006'),

('P18','S# 7','ATD','53000','Townhome','4','50000','K08','ST26','B019'),

('P19','S# 4','ATD','53000','Single Fam','4','35000','K06','ST26','B011'),

('P20','S# 10','PEW','25000','2 Story','7','70000','K16','SF7','B017'),

('P21','S# 3','ISB','53000','Single Fam','3','30000','K02','SG76','B007')

Select distinct(city) from Branch order by city desc;

Reviewed by:

Fahad Afzal (SP19-BCS-006)

Comments:

Code Working. Abdul Haseeb provided data for the PropertyForRent table.

Problems:

No problem at all

Rating: 1 – 10

10

## **Hassan Ali Jadoon (SP19-BCS-00**9)

--Lab 6 Work

create database DreamHome;

use Dreamhome;

-- 3. Create Tables

-- PrivateOwner

create table PrivateOwner (ownerNo varchar(20) NOT NULL PRIMARY KEY, fName varchar(50) NOT NULL, lName varchar(50) NOT NULL,

[address] varchar(50) NOT NULL, telNo varchar(20) NOT NULL)

insert into PrivateOwner (ownerNo, fName, lName, address, telNo)

values

('K01','Javed','Aziz','H# 85 Mandia, ATD ','03001245985'),

('K02','Sana','Bucha','H# 21 I-10, ISB','03368754953'),

('K03','Ali','Khan','H#45 KTS, HAR','03314915375'),

('K04','Ahmed','Akhtar','H#20 Supply, ATD','03457296348'),

('K05','Kabir','Singh','H#99 Salhad, ATD','03348719652'),

('K06','Parvaiz','Musharraf','H#86 G-6, ISB','03321596548'),

('K07','Benazir','Shah','H#286 DHA, KAR','03216598174'),

('K08','Jaan','Raheem','H#100 Cantt, LHR','03012000563'),

('K09','Umar','Gul','H#91 Cantt, HAV','03485265154'),

('K10','Raheem','Pardesi','H#20 H-6, ISB','03259826547'),

('K11','Hubaib','Naeem','H#65 G-9, ISB','03185400163'),

('K12','Qaiser','Khattak','H#156 Saddar, PEW','03420096050'),

('K13','Abdullah','Shah','H#48 Topi, SWB','03083032021'),

('K14','Babar','Khan','H#25 TIP,HAR','03058574321'),

('K15','Rehm','Nawaz','H#87 I-4, ISB','03065491032'),

('K16','Hamza','Akbar','H#152 Panian, HAR','03024595687'),

('K17','Nasir','Khan','H#756 Uni road, PEW','03461289567'),

('K18','Alex','Bhatti','H#301 Bahria Town, KAR','03487006320'),

('K19','Hareem','Shah','H#186 Cantt, MAN','03215906903'),

('K20','Waqar','Zaka','H#564 North Nazimabad,KAR','03237506501'),

('K21','Aamir','Liaqat','H#487 Gulshan Iqbal, KAR','03196585021')

Reviewed by:.

Comments:

Problems:

Rating: 1 – 10

## Imad Ahmad (SP19-BCS-011)

1. -- Client
2. create table Client (clientNo varchar(20) NOT NULL PRIMARY KEY, fName varchar(50) NOT NULL, lName varchar(50) NOT NULL,
3. telNo varchar(20) NOT NULL, prefType varchar(50) NOT NULL, maxRent DECIMAL NOT NULL)
4. insert into Client (clientNo , fName, lName, telNo, prefType, maxRent)
5. VALUES
6. ('A001', 'Imad', 'Ahmad', '03004463173', '1 bed Apartment', '5000'),
7. ('A002', 'Akbar', 'Majeed', '03125648789', 'Shared Apartment', '6000'),
8. ('A003','Farukh','Javed','03468965741','Townhome','70000'),
9. ('A004','Imran','Hashmi','03034321986','Bungalow','100000'),
10. ('A005','Farhat','Javed','03218954219','Small Vacation Cottage','80000'),
11. ('A006','Sajjad','Babar','03364512789','Multi Family home','180000'),
12. ('A007','Sidhu','Moosewala','03111111111','3 room apartment','60000'),
13. ('A008','Arshid','Khan','03211236957','Double story house','130000'),
14. ('A009','Javed','Shiekh','03489137982','Single Family home','80000'),
15. ('A010','Saira','Muneer','03007319654','Villa','500000'),
16. ('A011','Poorab','Kumar','03184967852','Shared Apartment','9000'),
17. ('A012','Faisal','Khan','03467845123','Townhome','75000'),
18. ('A013','Abdus','Salam','03096598753','Villa','500000'),
19. ('A014','Rab','Nawaz','03416385951','Bungalow','110000'),
20. ('A015','Obaid','Sheikh','03426284759','Multi Family Home','160000'),
21. ('A016','Qamar','Javed','03134679169','Villa','600000'),
22. ('A017','Jannat','Mirza','03166969969','Codominium','90000'),
23. ('A018','Babu','Rao','03104916872','Shared Apartment','15000'),
24. ('A019','Sania','Mirza','03451535985','Bungalow','90000'),
25. ('A020','Sham','Idrees','03108020500','1 bed Apartment','5000'),
26. ('A021','Javed','Kazmi','03165288572','Single Family Home','90000')

Reviewed by:

Fahad afzal.

Comments:

Great jot

Problems:

no

Rating: 1 – 10

10

## Khanzada Haider Ali (SP19-BCS-013)

-- 1. Create Database

create database DreamHome

-- 2. Set My Working Database in Query Editor

use DreamHome

-- 3. Create Tables

-- Staff

create table Staff (staffNo varchar(20) NOT NULL PRIMARY KEY, fName varchar(50) NOT NULL, lName varchar(50) NOT NULL,

position varchar(50) NOT NULL, sex varchar(1) NOT NULL, DOB DateTime NOT NULL, salary DECIMAL NOT NULL,

branchNo varchar(20) NOT NULL References Branch(branchNo));

-- 4.2 Multiple Rows Example

insert into Staff (staffNo, fName, lName, position, sex, DOB, salary, branchNo)

VALUES

('SA9', 'Mary', 'Howe', 'Assistant', 'F', '9/11/1988', 20000, 'B002'),

('SG14', 'David', 'Ford', 'Supervisor', 'M','11/9/1987', 100000, 'B003'),

('SG37', 'An', 'Beech', 'Assistant', 'F','12/8/1986', 90000, 'B003'),

('SG5', 'Susa', 'Brand', 'Manager', 'F', '5/9/1989', 120000, 'B003'),

('SL21', 'Joh', 'White', 'Manager', 'M', '2/12/1992', 100000, 'B004'),

('SL41', 'Julie', 'Lee', 'Assistant', 'F', '8/3/1990', 50000, 'B002'),

('SP98', 'Akbar', 'Shah', 'Assistant Manager', 'M', '9/8/1996', 70000, 'B005'),

('SK32', 'Mahrukh', 'Bibi', 'Customer Service', 'F', '10/4/1994', 60000, 'B010'),

('SB83', 'Ahmad', 'Hassan', 'Clerk', 'M', '4/6/1991', 40000, 'B009'),

('SR68', 'Hamid', 'Ali', 'Security Guard', 'M', '9/12/1982', 10000, 'B007'),

('SI12', 'Akhtar', 'Rasheed', 'Security Officer', 'M', '8/9/1989', 50000, 'B012'),

('SV56', 'Hajra', 'Khan', 'Customer Service', 'F', '3/4/1992', 60000, 'B006'),

('ST91', 'Maria', 'Kareem', 'Customer Service Manager', 'M', '1/7/1991', 80000, 'B008'),

('SO61', 'Kamran', 'Khan', 'Salesperson', 'M', '9/2/1987', 70000, 'B020'),

('SQ19', 'Khurshid', 'Akram', 'Finance Manager', 'M', '12/8/1982', 80000, 'B011'),

('SJ37', 'Sara', 'Majeed', 'HR Manager', 'F', '12/6/1981', 60000, 'B019'),

('SD52', 'Parvaiz', 'Khan', 'Security Guard', 'M', '11/12/1985', 15000, 'B013'),

('ST26', 'Bushra', 'Khan', 'Salesperson', 'F', '5/10/1990', 60000, 'B017'),

('SN99', 'Khalid', 'Kamal', 'Security Guard', 'M', '12/12/1992', 16000, 'B014'),

('SF7', 'Mubashir', 'Naveed', 'Receptionist', 'M', '1/12/1996', 30000, 'B016'),

('SG76', 'Awais', 'Qamar', 'Operations Manager', 'M', '9/4/1988', 80000, 'B015'),

('SW84', 'Muneer', 'Zaman', 'Marketing Manager', 'M', '7/1/1992', 70000, 'B021'),

('SZ34', 'Sana', 'Khan', 'Receptionist', 'F', '5/12/1996', 50000, 'B018')

Reviewed by:

Badar

Comments:

Nice work

Problems:

No

Rating: 1 – 10

10

## Sardar Badar Saghir (SP19-BCS-022)

create table Viewing (clientNo varchar(20) NOT NULL References Client(clientNo), propertyNo varchar(20) NOT NULL References PropertyForRent(propertyNo), viewDate DateTime NOT NULL, comment varchar(200) NOT NULL);

insert into viewing(clientNo, propertyNo, viewDate, comment)

values

('A013','P04','10/10/2020','Status Pending'),

('A001','P17','12/25/2018','Rented'),

('A014','P09','5/19/2019','Rented'),

('A011','P01','7/1/2019','Rented'),

('A006','P16','8/8/2020','Rented'),

('A019','P05','2/18/2018','Rented'),

('A010','P04','10/10/2020','Status Pending'),

('A020','P01','5/25/2018','Rented'),

('A007','P02','3/8/2019','Rented'),

('A017','P10','5/6/2019','Rented'),

('A002','P13','2/20/2020','Rented'),

('A021','P07','9/9/2019','Rented'),

('A009','P03','1/5/2020','Rented'),

('A015','P16','10/10/2020','Status Pending'),

('A004','P09','10/10/2020','Status Pending'),

('A008','P11','8/26/2019','Rented'),

('A018','P15','9/22/2018','Rented'),

('A003','P06','10/8/2019','Rented'),

('A016','P04','11/11/2018','Rented'),

('A012','P14','12/25/2019','Rented'),

('A005','P09','10/10/2020','Status Pending');

Reviewed by:

Muhammad Awais(SP19-BCS-033)

Comments:

Code Working: Badar Provided The Data for the for Viewing.

Problems:

No problem at all

Rating: 1 – 10

10

## Muhammad Awais (SP19-BCS-033)

create database DreamHome;

use Dreamhome;

-- 3. Create Tables

-- PrivateOwner

create table PrivateOwner (ownerNo varchar(20) NOT NULL PRIMARY KEY, fName varchar(50) NOT NULL, lName varchar(50) NOT NULL,

[address] varchar(50) NOT NULL, telNo varchar(20) NOT NULL)

insert into PrivateOwner (ownerNo, fName, lName, address, telNo)

values

('K01','Javed','Aziz','H# 85 Mandia, ATD ','03001245985'),

('K02','Sana','Bucha','H# 21 I-10, ISB','03368754953'),

('K03','Ali','Khan','H#45 KTS, HAR','03314915375'),

('K04','Ahmed','Akhtar','H#20 Supply, ATD','03457296348'),

('K05','Kabir','Singh','H#99 Salhad, ATD','03348719652'),

('K06','Parvaiz','Musharraf','H#86 G-6, ISB','03321596548'),

('K07','Benazir','Shah','H#286 DHA, KAR','03216598174'),

('K08','Jaan','Raheem','H#100 Cantt, LHR','03012000563'),

('K09','Umar','Gul','H#91 Cantt, HAV','03485265154'),

('K10','Raheem','Pardesi','H#20 H-6, ISB','03259826547'),

('K11','Hubaib','Naeem','H#65 G-9, ISB','03185400163'),

('K12','Qaiser','Khattak','H#156 Saddar, PEW','03420096050'),

('K13','Abdullah','Shah','H#48 Topi, SWB','03083032021'),

('K14','Babar','Khan','H#25 TIP,HAR','03058574321'),

('K15','Rehm','Nawaz','H#87 I-4, ISB','03065491032'),

('K16','Hamza','Akbar','H#152 Panian, HAR','03024595687'),

('K17','Nasir','Khan','H#756 Uni road, PEW','03461289567'),

('K18','Alex','Bhatti','H#301 Bahria Town, KAR','03487006320'),

('K19','Hareem','Shah','H#186 Cantt, MAN','03215906903'),

('K20','Waqar','Zaka','H#564 North Nazimabad,KAR','03237506501'),

('K21','Aamir','Liaqat','H#487 Gulshan Iqbal, KAR','03196585021')

Reviewed by:

Badar

Comments:

He completed His part

Problems:

No

Rating: 1 – 10

10

# LAB 7

## Common Solution

Q#1 Print the list of postcodes without any repetition

**ANS** Select distinct(postcode) from Branch;

Q#2 Print all fName from Staff without repetition

**ANS** Select distinct(fName) from Staff;

Q#3 List all staff with renaming all its columns in results

**ANS** Select staffNo as ID, fName as FirstNAme, lName as LastName, [position] as Allocation, sex as Gender, DOB as Birth, salary as Wages, branchNo as Branch from Staff;

Q#4 List all clients with re-naming all its columns to synonyms.

**ANS** SELECT clientNo as StakeHolderID, fName as FirstName, lName as LastName, telNo as PhoneNo, prefType as Preference, maxRent as MaximumRent FROM Client;

Q#5 List all staff with a salary greater than 10,000.

**ANS** SELECT salary FROM Staff where salary >10000;

Q#6 List all managers and supervisors.

**ANS** SELECT [position] FROM Staff Where [position] = 'supervisor' OR [position] = 'manager';

## Abdul Haseeb Khan (SP19-BCS-001)

SOLUTION

Q#1 Print the list of postcodes without any repetition

**ANS** Select distinct(postcode) from Branch;

Q#2 Print all fName from Staff without repetition

**ANS** Select distinct(fName) from Staff;

Q#3 List all staff with renaming all its columns in results

**ANS** Select staffNo as ID, fName as FirstName, lName as LastName, [position] as Allocation, sex as Gender, DOB as DateOfBirth, salary as Wages, branchNo as Branch from Staff;

Q#4 List all clients with re-naming all its columns to synonyms.

**ANS** SELECT clientNo as StakeHolderID, fName as FirstName, lName as LastName, telNo as PhoneNo, prefType as Preference, maxRent as MaximumRent FROM Client;

Q#5 List all staff with a salary greater than 10,000.

**ANS** SELECT salary FROM Staff where salary >10000;

Q#6 List all managers and supervisors.

**ANS** SELECT [position] FROM Staff Where [position] = 'supervisor' OR [position] = 'manager';

Reviewed by:

Fahad afzal (sp19-bcs-006)

Comments:

Working

Problems:

No problem at all

Rating: 1 – 10

10

## Ashfaq Rahim (SP19-BCS-003)

use DreamHome;

*-- 1. Print the list of postcode without any repetition*

**Select distinct(postcode) from Branch;**

*--2. Print all fName from Staff without repetition*

**Select distinct(fame) from Staff;**

*--3. List all staff with renaming all its columns in results*

**Select staffNo as Id, fName as Father, lName as Employee, [position] as Allocation, sex as Gender,**

**DOB as Birth, salary as Wage, branchNo as Branch**

**from Staff;**

*--4. List all clients with re-naming all its columns to synonyms.*

***SELECT clientNo as StockHolderID, fName as FatherName, lName as Name, telNo as phoneNo, prefType as Preference, maxRent as MaximumRent FROM Client*;**

*--5. List all staff with a salary greater than 10,000.*

***SELECT salary FROM Staff where salary >10000;***

*--6. List all managers and supervisors.*

***SELECT [position] FROM Staff Where [position] = 'Supervisor' OR [position] = 'Manager';***

Reviewed by:.

Comments:

Problems:

Rating: 1 – 10

## Fahad Afzal (SP19-BCS-006)

Select distinct(postcode) from Branch;

--Print all fName from Staff without repetition

-- COMMAND:

SELECT distinct(fName) FROM Staff;

--List all staff with renaming all its columns in results

-- COMMAND:

Select staffNo As MyStaffNo, fName As MyFirstName, lName As MyLastName, position As MyPosition, DOB As MYDOB, salary As MySalary, branchNo As MyBranchNO from Staff;

--List all clients with re-naming all its columns to synonyms.

-- COMMAND:

Select clientNo As clientId, fName As firstName, lName As lastName, telNo As contactNo, prefType As priorityType, maxRent As totalRent from Client;

--List all staff with a salary greater than 10,000.

-- COMMAND:

SELECT \* FROM Staff WHERE salary > 10000;

--List all managers and supervisors.

--COMMAND:

SELECT \* FROM Staff WHERE position = 'manager' OR position = 'supervisor';

Reviewed by:.

**Badar**

Comments:

Complete the task according to the requirements.

Problems:

no

Rating: 1 – 10

10

## Hassaan Shahnawaz (SP19-BCS-008)

-- lab-7

use DreamHome;

-- 1. Print the list of postcode without any repetition

Select distinct(postcode) from Branch;

--2. Print all fName from Staff without repetition

Select distinct(fName) from Staff;

--3. List all staff with renaming all its columns in results

Select staffNo as Id, fName as Father, lName as Employee, [position] as Allocation, sex as Gender,

DOB as Birth, salary as Wage, branchNo as Branch from Staff;

--4. List all clients with re-naming all its columns to synonyms.

SELECT clientNo as StockHolderID, fName as FatherName, lName as Name, telNo as phoneNo, prefType as Preference, maxRent as MaximumRent  FROM Client;

--5. List all staff with a salary greater than 10,000.

SELECT  salary FROM  Staff where salary >10000;

--6. List all managers and supervisors.

SELECT  [position] FROM  Staff Where [position] = 'Supervisor' OR [position] = 'Manager';

Reviewed by:

Fahad afzal (sp19-bcs-006)

Comments:

Working

Problems:

No problem at all

Rating: 1 – 10

10

## Hassan Ali Jadoon (SP19-BCS-009)

--Lab 7

use DreamHome;

--1. Print the list of postcode without any repetition.

select distinct (postcode) from branch;

--2. Print all fName from staff without any repetit.

select distinct (fname) from Staff;

--3. List all staff with re-naming all its columns in results.

--select city as mycity from branch;

--select \* from staff;

select staffNo as RegNo,fName as FatherName,lname as lastName, position as postName, sex as gender, DOB as BirthDate, salary as income, branchNo as officeNo from Staff;

--4. List all clients with re-naming all its columns to synonyms.

--select \* from Client;

select clientNo as CustomerNo, fname as FatherNo, lname as lastName, telNo as PhoneNumber, prefType as preference, maxRent as maximumRent from Client;

--5. List all staff with a salary greater than 10,000.

--select \* from Branch;

select salary from staff where salary>10000;

--6. List all the managers and supervisors.

SELECT [position] FROM Staff Where [position] = 'Supervisor' OR [position] = 'Manager';

Reviewed by:.

Comments:

Problems:

Rating: 1 – 10

## Khanzada Haider Ali (SP19-BCS-013)

-- lab-7

use DreamHome;

*-- 1. Print the list of postcode without any repetition*

**Select distinct(postcode) from Branch;**

*--2. Print all fName from Staff without repetition*

**Select distinct(fName) from Staff;**

*--3. List all staff with renaming all its columns in results*

**Select staffNo as Id, fName as Father, lName as Employee, [position] as Allocation, sex as Gender,**

**DOB as Birth, salary as Wage, branchNo as Branch**

**from Staff;**

*--4. List all clients with re-naming all its columns to synonyms.*

**SELECT clientNo as StockHolderID, fName as FatherName, lName as Name, telNo as phoneNo, prefType as Preference, maxRent as MaximumRent  FROM Client;**

*--5. List all staff with a salary greater than 10,000.*

**SELECT  salary FROM  Staff where salary >10000;**

*--6. List all managers and supervisors.*

**SELECT  [position] FROM  Staff Where [position] = 'Supervisor' OR [position] = 'Manager';**

Reviewed by:.

Badar

Comments:

Great job

Problems

No:

Rating: 1 – 10

10

## Imad Ahmad (SP19-BCS-011)

-- lab-7

use DreamHome;

*-- 1. Print the list of postcode without any repetition*

Select distinct(postcode) from Branch;

*--2. Print all fName from Staff without repetition*

Select distinct(fName) from Staff;

*--3. List all staff with renaming all its columns in results*

Select staffNo as Id, fName as Father, lName as Employee, [position] as Allocation, sex as Gender,

DOB as Birth, salary as Wage, branchNo as Branch

from Staff;

*--4. List all clients with re-naming all its columns to synonyms.*

SELECT clientNo as StockHolderID, fName as FatherName, lName as Name, telNo as phoneNo, prefType as Preference, maxRent as MaximumRent  FROM Client;

*--5. List all staff with a salary greater than 10,000.*

SELECT  salary FROM  Staff where salary >10000;

*--6. List all managers and supervisors.*

SELECT  [position] FROM  Staff Where [position] = 'Supervisor' OR [position] = 'Manager';

Reviewed by:.

Badar

Comments:

Great job

Problems

No:

Rating: 1 – 10

10

## [Sardar Badar Saghir (SP19-BCS-022)](#_Toc558549338)

Q#1 Print the list of postcodes without any repetition

**ANS** Select distinct(postcode) from Branch;

Q#2 Print all fName from Staff without repetition

**ANS** Select distinct(fName) from Staff;

Q#3 List all staff with renaming all its columns in results

**ANS** Select staffNo as ID, fName as FirstNAme, lName as LastName, [position] as Allocation, sex as Gender, DOB as Birth, salary as Wages, branchNo as Branch from Staff;

Q#4 List all clients with re-naming all its columns to synonyms.

**ANS** SELECT clientNo as StakeHolderID, fName as FirstName, lName as LastName, telNo as PhoneNo, prefType as Preference, maxRent as MaximumRent FROM Client;

Q#5 List all staff with a salary greater than 10,000.

**ANS** SELECT salary FROM Staff where salary >10000;

Q#6 List all managers and supervisors.

**ANS** SELECT [position] FROM Staff Where [position] = 'supervisor' OR [position] = 'manager';

Reviewed by:

Khanzada Haider (sp19-bcs-013)

Comments:

Working

Problems:

No problem at all

Rating: 1 – 10

10

## [Muhammad Awais (SP19-BCS-033)](#_Toc2037759433)

use DreamHome;

*1. Print the list of postcode without any repetition*

**Select distinct(postcode) from Branch;**

*2. Print all fName from Staff without repetition*

**Select distinct(fName) from Staff;**

*3. List all staff with renaming all its columns in results*

**Select staffNo as IdNumber , fName as FirstName, lName as LastName, [position] as Occupation, sex as Gender,**

**DOB as Birth, salary as Payment, branchNo as BranchId**

**from Staff;**

*4. List all clients with re-naming all its columns to synonyms.*

**SELECT clientNo as StockHolderID, fName as FirstName, lName as Name, telNo as phoneNo, prefType as Preference, maxRent as MaximumRent FROM Client;**

*5. List all staff with a salary greater than 10,000.*

**SELECT salary FROM Staff where salary >10000;**

*6. List all managers and supervisors.*

**SELECT [position] FROM Staff Where [position] = 'Supervisor' OR [position] = 'Manager';**

Reviewed by:

Badar

Comments:

He did really good job in implementing where clasuse

Problems:

No

Rating: 1 – 10

10

# LAB 8

## Common Solution

use DreamHome;

SELECT staffNo, fName, lName, salary FROM Staff ORDER BY salary DESC;

SELECT propertyNo, type, rooms, rent FROM PropertyForRent ORDER BY type;

SELECT propertyNo, type, rooms, rent FROM PropertyForRent ORDER BY type, rent DESC;

SELECT COUNT(DISTINCT propertyNo) AS myCount FROM Viewing WHERE viewDate BETWEEN '1-May-04' AND '31-May-04';

SELECT COUNT(staffNo) AS myCount, SUM(salary) AS mySum FROM Staff WHERE position = 'Manager';

SELECT MIN(salary) AS myMin, MAX(salary) AS myMax, AVG(salary) AS myAvg FROM Staff;

--SELECT staffNo, COUNT(salary) FROM Staff;

--shwoing error that no aggregate or group clause

SELECT staffNo, fName, lName, position, salary FROM Staff WHERE salary > SOME (SELECT salary FROM Staff WHERE branchNo = 'B003');

SELECT staffNo, fName, lName, position, salary FROM Staff WHERE salary > ALL (SELECT salary FROM Staff WHERE branchNo = 'B003');

-- For DreamHome case study write at least 3 examples of each category for sorting, grouping and aggregate operations.

--sorting

SELECT branchNo FROM Branch ORDER BY postcode ASC;

SELECT fName , lName , maxRent FROM Client ORDER BY maxRent DESC;

SELECT fName, salary FROM Staff ORDER BY salary DESC;

--grouping

SELECT clientNo, fName, maxRent FROM Client WHERE maxRent < 180000 AND maxRent > 10000; SELECT fName, lName FROM Staff WHERE (SELECT AVG(salary) FROM Staff) < salary;

SELECT fName, salary FROM Staff WHERE sex = 'M' AND position = 'Clerk';

--aggregate clauses

SELECT COUNT(propertyNo) AS TotalProperty FROM Viewing;

SELECT avg(salary) AS totalsalary FROM Staff ;

SELECT max(salary) AS totalsalary FROM Staff ;

## Abdul Haseeb Khan (SP19-BCS-001)

use DreamHome;

SELECT staffNo, fName, lName, salary FROM Staff ORDER BY salary DESC;

SELECT propertyNo, type, rooms, rent FROM PropertyForRent ORDER BY type;

SELECT propertyNo, type, rooms, rent FROM PropertyForRent ORDER BY type, rent DESC;

SELECT COUNT(DISTINCT propertyNo) AS myCount FROM Viewing WHERE viewDate BETWEEN '1-May-04' AND '31-May-04';

SELECT COUNT(staffNo) AS myCount, SUM(salary) AS mySum FROM Staff WHERE position = 'Manager'; SELECT MIN(salary) AS myMin, MAX(salary) AS myMax, AVG(salary) AS myAvg FROM Staff;

--SELECT staffNo, COUNT(salary) FROM Staff;

--shwoing error that no aggregate or group clause

SELECT staffNo, fName, lName, position, salary FROM Staff WHERE salary > SOME (SELECT salary FROM Staff WHERE branchNo = 'B003');

SELECT staffNo, fName, lName, position, salary FROM Staff WHERE salary > ALL (SELECT salary FROM Staff WHERE branchNo = 'B003');

--sorting clauses

SELECT fName, lName, position FROM Staff ORDER BY lName ASC;

SELECT staffNo, fName, salary FROM Staff ORDER BY staffNo DESC;

SELECT fName FROM Staff ORDER BY fName DESC;

--grouping

SELECT clientNo, fName, maxRent FROM Client WHERE maxRent < 180000 AND maxRent > 10000; SELECT fName, lName FROM Staff WHERE (SELECT AVG(salary) FROM Staff) < salary;

SELECT fName, salary FROM Staff WHERE sex = 'M' AND position = 'Clerk';

--aggregate clauses

SELECT COUNT(propertyNo) AS TotalProperty FROM Viewing;

SELECT avg(salary) AS totalsalary FROM Staff ;

SELECT max(salary) AS totalsalary FROM Staff ;

Reviewed by:.

Comments:

Problems:

Rating: 1 – 10

## Ashfaq Rahim (SP19-BCS-003)

use DreamHome;

SELECT staffNo, fName, lName, salary FROM Staff ORDER BY salary DESC;

SELECT propertyNo, type, rooms, rent FROM PropertyForRent ORDER BY type;

SELECT propertyNo, type, rooms, rent FROM PropertyForRent ORDER BY type, rent DESC;

SELECT COUNT(DISTINCT propertyNo) AS myCount FROM Viewing WHERE viewDate BETWEEN '1-May-04' AND '31-May-04';

SELECT COUNT(staffNo) AS myCount, SUM(salary) AS mySum FROM Staff WHERE position = 'Manager';

SELECT MIN(salary) AS myMin, MAX(salary) AS myMax, AVG(salary) AS myAvg FROM Staff;

--SELECT staffNo, COUNT(salary) FROM Staff;

--shwoing error that no aggregate or group clause

SELECT staffNo, fName, lName, position, salary FROM Staff WHERE salary > SOME (SELECT salary FROM Staff WHERE branchNo = 'B003');

SELECT staffNo, fName, lName, position, salary FROM Staff WHERE salary > ALL (SELECT salary FROM Staff WHERE branchNo = 'B003');

-- For DreamHome case study write at least 3 examples of each category for sorting, grouping and aggregate operations.

--sorting

SELECT branchNo FROM Branch ORDER BY postcode ASC;

SELECT fName , lName , maxRent FROM Client ORDER BY maxRent DESC;

SELECT fName, salary FROM Staff ORDER BY salary DESC;

--grouping

SELECT clientNo, fName, maxRent FROM Client WHERE maxRent < 180000 AND maxRent > 10000; SELECT fName, lName FROM Staff WHERE (SELECT AVG(salary) FROM Staff) < salary;

SELECT fName, salary FROM Staff WHERE sex = 'M' AND position = 'Clerk';

--aggregate clauses

SELECT COUNT(propertyNo) AS TotalProperty FROM Viewing;

SELECT avg(salary) AS totalsalary FROM Staff ;

SELECT max(salary) AS totalsalary FROM Staff ;

Reviewed by:.

Comments:

Problems:

Rating: 1 – 10

## Fahad Afzal (SP19-BCS-006)

use DreamHome;

SELECT staffNo, fName, lName, salary FROM Staff ORDER BY salary DESC;

SELECT propertyNo, type, rooms, rent FROM PropertyForRent ORDER BY type;

SELECT propertyNo, type, rooms, rent FROM PropertyForRent ORDER BY type, rent DESC;

SELECT COUNT(DISTINCT propertyNo) AS myCount FROM Viewing WHERE viewDate BETWEEN '1-May-04' AND '31-May-04';

SELECT COUNT(staffNo) AS myCount, SUM(salary) AS mySum FROM Staff WHERE position = 'Manager';

SELECT MIN(salary) AS myMin, MAX(salary) AS myMax, AVG(salary) AS myAvg FROM Staff;

--SELECT staffNo, COUNT(salary) FROM Staff;

--shwoing error that no aggregate or group clause

SELECT staffNo, fName, lName, position, salary FROM Staff WHERE salary > SOME (SELECT salary FROM Staff WHERE branchNo = 'B003');

SELECT staffNo, fName, lName, position, salary FROM Staff WHERE salary > ALL (SELECT salary FROM Staff WHERE branchNo = 'B003');

-- For DreamHome case study write at least 3 examples of each category for sorting, grouping and aggregate operations.

--sorting

SELECT branchNo FROM Branch ORDER BY postcode ASC;

SELECT fName , lName , maxRent FROM Client ORDER BY maxRent DESC;

SELECT fName, salary FROM Staff ORDER BY salary DESC;

--grouping

SELECT clientNo, fName, maxRent FROM Client WHERE maxRent < 180000 AND maxRent > 10000; SELECT fName, lName FROM Staff WHERE (SELECT AVG(salary) FROM Staff) < salary;

SELECT fName, salary FROM Staff WHERE sex = 'M' AND position = 'Clerk';

--aggregate clauses

SELECT COUNT(propertyNo) AS TotalProperty FROM Viewing;

SELECT avg(salary) AS totalsalary FROM Staff ;

SELECT max(salary) AS totalsalary FROM Staff ;

Reviewed by:.

imad

Comments:

Nice. Beautiful. Great

Problems:

no

Rating: 1 – 10

10

## Hassaan Shahnawaz (SP19-BCS-008)

--Examples

SELECT staffNo, fName, lName, salary FROM Staff ORDER BY salary DESC;

SELECT propertyNo, type, rooms, rent FROM PropertyForRent ORDER BY type;

SELECT propertyNo, type, rooms, rent FROM PropertyForRent ORDER BY type, rent DESC;

SELECT COUNT(DISTINCT propertyNo) AS myCount FROM Viewing WHERE viewDate BETWEEN '1-May-04' AND '31-May-04';

SELECT COUNT(staffNo) AS myCount, SUM(salary) AS mySum FROM Staff WHERE position = 'Manager';

SELECT MIN(salary) AS myMin, MAX(salary) AS myMax, AVG(salary) AS myAvg FROM Staff;

SELECT staffNo, COUNT(salary) FROM Staff; --shwoing error that no aggregate or group clause

SELECT staffNo, fName, lName, position, salary FROM Staff WHERE salary > SOME (SELECT salary FROM Staff WHERE branchNo = 'B003');

SELECT staffNo, fName, lName, position, salary FROM Staff WHERE salary > ALL (SELECT salary FROM Staff WHERE branchNo = 'B003');

-- For DreamHome case study write at least 3 examples of each category for sorting, grouping and aggregate operations. Share your exercises as advised in the lab.

--sorting clauses

SELECT  fName, lName, position FROM Staff ORDER BY lName ASC;

SELECT staffNo, fName, salary FROM Staff ORDER BY staffNo DESC;

SELECT fName FROM Staff ORDER BY fName DESC;

--grouping clauses

SELECT staffNo, fName, salary FROM Staff WHERE position = 'Assistant' AND salary < 10000;

SELECT fName, salary FROM Staff WHERE sex = 'M' AND position = 'Manager';

SELECT fName, lName FROM Staff WHERE (SELECT AVG(salary) FROM Staff) < salary;

--aggregate clauses

SELECT COUNT(DISTINCT(propertyNo)) AS TotalProperty FROM Viewing WHERE viewDate BETWEEN '1-May-00' AND '31-May-04';

SELECT  propertyNo AS ClientID FROM Viewing WHERE viewDate BETWEEN '1-May-00' AND '31-May-04';

SELECT clientNo, propertyNo FROM Viewing WHERE viewDate BETWEEN '1-May-00' AND '31-May-09';

Reviewed by:

Fahad afzal (sp19-bcs-006)

Comments:

Working

Problems:

No problem at all

Rating: 1 – 10

10

## Hassan Ali Jadoon (SP19-BCS-009)

Pending…

Reviewed by:.

Comments:

Problems:

Rating: 1 – 10

## Khanzada Haider Ali (SP19-BCS-013)

use DreamHome;

SELECT staffNo, fName, lName, salary FROM Staff ORDER BY salary DESC;

SELECT propertyNo, type, rooms, rent FROM PropertyForRent ORDER BY type;

SELECT propertyNo, type, rooms, rent FROM PropertyForRent ORDER BY type, rent DESC;

SELECT COUNT(DISTINCT propertyNo) AS myCount FROM Viewing WHERE viewDate BETWEEN '1-May-04' AND '31-May-04';

SELECT COUNT(staffNo) AS myCount, SUM(salary) AS mySum FROM Staff WHERE position = 'Manager';

SELECT MIN(salary) AS myMin, MAX(salary) AS myMax, AVG(salary) AS myAvg FROM Staff;

--SELECT staffNo, COUNT(salary) FROM Staff;

--shwoing error that no aggregate or group clause

SELECT staffNo, fName, lName, position, salary FROM Staff WHERE salary > SOME (SELECT salary FROM Staff WHERE branchNo = 'B003');

SELECT staffNo, fName, lName, position, salary FROM Staff WHERE salary > ALL (SELECT salary FROM Staff WHERE branchNo = 'B003');

-- For DreamHome case study write at least 3 examples of each category for sorting, grouping and aggregate operations.

--sorting

SELECT branchNo FROM Branch ORDER BY postcode ASC;

SELECT fName , lName , maxRent FROM Client ORDER BY maxRent DESC;

SELECT fName, salary FROM Staff ORDER BY salary DESC;

--grouping

SELECT clientNo, fName, maxRent FROM Client WHERE maxRent < 180000 AND maxRent > 10000; SELECT fName, lName FROM Staff WHERE (SELECT AVG(salary) FROM Staff) < salary;

SELECT fName, salary FROM Staff WHERE sex = 'M' AND position = 'Clerk';

--aggregate clauses

SELECT COUNT(propertyNo) AS TotalProperty FROM Viewing;

SELECT avg(salary) AS totalsalary FROM Staff ;

SELECT max(salary) AS totalsalary FROM Staff ;

Reviewed by:.

Comments:

So good, I like it.

Problems:

Rating: 1 – 10

## Imad Ahmad (SP19-BCS-011)

use DreamHome;

SELECT staffNo, fName, lName, salary FROM Staff ORDER BY salary DESC;

SELECT propertyNo, type, rooms, rent FROM PropertyForRent ORDER BY type;

SELECT propertyNo, type, rooms, rent FROM PropertyForRent ORDER BY type, rent DESC;

SELECT COUNT(DISTINCT propertyNo) AS myCount FROM Viewing WHERE viewDate BETWEEN '1-May-04' AND '31-May-04';

SELECT COUNT(staffNo) AS myCount, SUM(salary) AS mySum FROM Staff WHERE position = 'Manager';

SELECT MIN(salary) AS myMin, MAX(salary) AS myMax, AVG(salary) AS myAvg FROM Staff;

--SELECT staffNo, COUNT(salary) FROM Staff;

--shwoing error that no aggregate or group clause

SELECT staffNo, fName, lName, position, salary FROM Staff WHERE salary > SOME (SELECT salary FROM Staff WHERE branchNo = 'B003');

SELECT staffNo, fName, lName, position, salary FROM Staff WHERE salary > ALL (SELECT salary FROM Staff WHERE branchNo = 'B003');

-- For DreamHome case study write at least 3 examples of each category for sorting, grouping and aggregate operations.

--sorting

SELECT branchNo FROM Branch ORDER BY postcode ASC;

SELECT fName , lName , maxRent FROM Client ORDER BY maxRent DESC;

SELECT fName, salary FROM Staff ORDER BY salary DESC;

--grouping

SELECT clientNo, fName, maxRent FROM Client WHERE maxRent < 180000 AND maxRent > 10000; SELECT fName, lName FROM Staff WHERE (SELECT AVG(salary) FROM Staff) < salary;

SELECT fName, salary FROM Staff WHERE sex = 'M' AND position = 'Clerk';

--aggregate clauses

SELECT COUNT(propertyNo) AS TotalProperty FROM Viewing;

SELECT avg(salary) AS totalsalary FROM Staff ;

SELECT max(salary) AS totalsalary FROM Staff ;

Reviewed by:.

Comments:

Nice Code dear. Mind Blowing.

Problems:

Rating: 1 – 10

## [Sardar Badar Saghir (SP19-BCS-022)](#_Toc558549338)

use DreamHome;

SELECT staffNo, fName, lName, salary FROM Staff ORDER BY salary DESC;

SELECT propertyNo, type, rooms, rent FROM PropertyForRent ORDER BY type;

SELECT propertyNo, type, rooms, rent FROM PropertyForRent ORDER BY type, rent DESC;

SELECT COUNT(DISTINCT propertyNo) AS myCount FROM Viewing WHERE viewDate BETWEEN '1-May-04' AND '31-May-04';

SELECT COUNT(staffNo) AS myCount, SUM(salary) AS mySum FROM Staff WHERE position = 'Manager';

SELECT MIN(salary) AS myMin, MAX(salary) AS myMax, AVG(salary) AS myAvg FROM Staff;

--SELECT staffNo, COUNT(salary) FROM Staff;

--shwoing error that no aggregate or group clause

SELECT staffNo, fName, lName, position, salary FROM Staff WHERE salary > SOME (SELECT salary FROM Staff WHERE branchNo = 'B003');

SELECT staffNo, fName, lName, position, salary FROM Staff WHERE salary > ALL (SELECT salary FROM Staff WHERE branchNo = 'B003');

-- For DreamHome case study write at least 3 examples of each category for sorting, grouping and aggregate operations.

--sorting

SELECT branchNo FROM Branch ORDER BY postcode ASC;

SELECT fName , lName , maxRent FROM Client ORDER BY maxRent DESC;

SELECT fName, salary FROM Staff ORDER BY salary DESC;

--grouping

SELECT clientNo, fName, maxRent FROM Client WHERE maxRent < 180000 AND maxRent > 10000; SELECT fName, lName FROM Staff WHERE (SELECT AVG(salary) FROM Staff) < salary;

SELECT fName, salary FROM Staff WHERE sex = 'M' AND position = 'Clerk';

--aggregate clauses

SELECT COUNT(propertyNo) AS TotalProperty FROM Viewing;

SELECT avg(salary) AS totalsalary FROM Staff ;

SELECT max(salary) AS totalsalary FROM Staff ;

Reviewed by:

Khaznada Haider (sp19-bcs-013)

Comments:

This class is pending by sir

Problems:

Pending

Rating: 1 – 10

Pending

## [Muhammad Awais (SP19-BCS-033)](#_Toc2037759433)

use DreamHome;

SELECT staffNo, fName, lName, salary FROM Staff ORDER BY salary DESC;

SELECT propertyNo, type, rooms, rent FROM PropertyForRent ORDER BY type;

SELECT propertyNo, type, rooms, rent FROM PropertyForRent ORDER BY type, rent DESC;

SELECT COUNT(DISTINCT propertyNo) AS myCount FROM Viewing WHERE viewDate BETWEEN '1-May-04' AND '31-May-04';

SELECT COUNT(staffNo) AS myCount, SUM(salary) AS mySum FROM Staff WHERE position = 'Manager';

SELECT MIN(salary) AS myMin, MAX(salary) AS myMax, AVG(salary) AS myAvg FROM Staff;

--SELECT staffNo, COUNT(salary) FROM Staff;

--shwoing error that no aggregate or group clause

SELECT staffNo, fName, lName, position, salary FROM Staff WHERE salary > SOME (SELECT salary FROM Staff WHERE branchNo = 'B003');

SELECT staffNo, fName, lName, position, salary FROM Staff WHERE salary > ALL (SELECT salary FROM Staff WHERE branchNo = 'B003');

-- For DreamHome case study write at least 3 examples of each category for sorting, grouping and aggregate operations.

--sorting

SELECT branchNo FROM Branch ORDER BY postcode ASC;

SELECT fName , lName , maxRent FROM Client ORDER BY maxRent DESC;

SELECT fName, salary FROM Staff ORDER BY salary DESC;

--grouping

SELECT clientNo, fName, maxRent FROM Client WHERE maxRent < 180000 AND maxRent > 10000; SELECT fName, lName FROM Staff WHERE (SELECT AVG(salary) FROM Staff) < salary;

SELECT fName, salary FROM Staff WHERE sex = 'M' AND position = 'Clerk';

--aggregate clauses

SELECT COUNT(propertyNo) AS TotalProperty FROM Viewing;

SELECT avg(salary) AS totalsalary FROM Staff ;

SELECT max(salary) AS totalsalary FROM Staff ;

Reviewed by:.

Comments:

Problems:

Rating: 1 – 10

# Lab 9

## Common Solution

## Abdul Haseeb Khan (SP19-BCS-001)

## Ashfaq Rahim (SP19-BCS-003)

## Fahad Afzal (SP19-BCS-006)

## Hassaan Shahnawaz (SP19-BCS-008)

## Hassan Ali Jadoon (SP19-BCS-009)

## Khanzada Haider Ali (SP19-BCS-013)

## Imad Ahmad (SP19-BCS-011)

## [Sardar Badar Saghir (SP19-BCS-022)](#_Toc558549338)

**use** DreamHome;

**CREATE** **TABLE** Employees(empId **int** **primary** **key** **not** **null**,first\_name **varchar**(20) **not** **Null**,

last\_name **varchar**(20) **not** **Null** , positions **varchar**(20) **not** **Null**, country **varchar**(5) **not** **Null**, salary **int**);

**Insert** **into** Employees(empId ,first\_name,

last\_name, positions, country, salary)**Values**

(6, 'Sil','DFi', 'manager','pk', 2400),

(1, 'dil','Ai', 'manager','usa', 200),

(3, 'Adil','li', 'manager','usa', 300),

(2, 'Adl','Ali', 'manager','usa',400),

(5, 'Ail','Al', 'manager','usa', 600),

(4, 'Adil','li', 'manager','usa',700);

-- Write a query to find the names (first\_name, last\_name) of the employees work for a department based in the United States.

**SELECT** first\_name, last\_name

**FROM** Employees

**WHERE** country = **All**(**SELECT** country **FROM** Employees **where** country = 'usa');

-- Write a query to find the names (first\_name, last\_name) of the employees who are managers.

**SELECT** first\_name, last\_name

**FROM** Employees

**WHERE** positions = **All**(**SELECT** positions **FROM** Employees **where** positions = 'usa');

-- Write a query to find the names (first\_name, last\_name), the salary of the employees whose salary is greater than the average salary.

**SELECT** first\_name, last\_name

**FROM** Employees

**WHERE** salary > **ALL** (**SELECT** **AVG**(salary) **FROM** Employees );

-- Write a query to find the names (first\_name, last\_name), the salary of the employees whose salary is equal to the minimum salary for their job grade.

**SELECT** first\_name, last\_name

**FROM** Employees

**WHERE** salary = **ALL** (**SELECT** **MIN**() (salary) **FROM** Employees );

## [Muhammad Awais (SP19-BCS-033)](#_Toc2037759433)

# Lab 10

## Common Solution

## Abdul Haseeb Khan (SP19-BCS-001)

## Ashfaq Rahim (SP19-BCS-003)

## Fahad Afzal (SP19-BCS-006)

## Hassaan Shahnawaz (SP19-BCS-008)

## Hassan Ali Jadoon (SP19-BCS-009)

## Khanzada Haider Ali (SP19-BCS-013)

## Imad Ahmad (SP19-BCS-011)

## [Sardar Badar Saghir (SP19-BCS-022)](#_Toc558549338)

## [Muhammad Awais (SP19-BCS-033)](#_Toc2037759433)

# Lab 11

## Common Solution

use dreamhome;

create table stringOperations(FName varchar(50) NOT NULL,familyName varchar (50) NOT NULL);

insert into stringOperations(FName, familyName) values ('Badar', 'Saghir'),('Fadd', 'Haider'),('Hassan', 'Imad');

--CONCATINATION

SELECT CONCAT(Fname, familyName) AS NCString FROM stringOperations;

--extra string funtions

SELECT upper(familyName) FROM stringOperations;

SELECT lower(FName) FROM stringOperations;

SELECT REPLACE('Badar', 'B', '3');

SELECT SPACE(10);

SELECT RIGHT (familyName, 5),familyName FROM stringOperations;

SELECT LEFT(familyName, 5),familyName FROM stringOperations;

SELECT ASCII(FName) FROM stringOperations;

--Maths functionSELECT COT(6);

ALTER TABLE stringOperations

ADD Amount float;

UPDATE stringOperations set Amount = (30.5);

SELECT \* FROM stringOperations;

SELECT COS(Amount) FROM stringOperations;

SELECT LOG(Amount) FROM stringOperations;

SELECT SQUARE(Amount) FROM stringOperations;

SELECT COUNT(Fname) AS NumberOfNames FROM Staff s ;

SELECT AVG(maxRent) AS 'avg' FROM client;

SELECT MAX(maxRent) AS 'Largest' FROM client;

SELECT MIN(maxRent) AS 'Smallest' FROM client;

SELECT FLOOR(Amount) FROM stringOperations;

SELECT CEILING(Amount) FROM stringOperations;

## Abdul Haseeb Khan (SP19-BCS-001)

## Ashfaq Rahim (SP19-BCS-003)

## Fahad Afzal (SP19-BCS-006)

## Hassaan Shahnawaz (SP19-BCS-008)

## Hassan Ali Jadoon (SP19-BCS-009)

## Khanzada Haider Ali (SP19-BCS-013)

## Imad Ahmad (SP19-BCS-011)

## [Sardar Badar Saghir (SP19-BCS-022)](#_Toc558549338)

**use** dreamhome;

**create** **table** stringOperations(FName **varchar**(50) **NOT** **NULL**,familyName **varchar** (50) **NOT** **NULL**);

**insert** **into** stringOperations(FName, familyName) **values** ('Badar', 'Saghir'),('Fadd', 'Haider'),('Hassan', 'Imad');

--CONCATINATION

**SELECT** **CONCAT**(Fname, familyName) **AS** NCString **FROM** stringOperations;

--extra string funtions

**SELECT** **upper**(familyName) **FROM** stringOperations;

**SELECT** **lower**(FName) **FROM** stringOperations;

**SELECT** **REPLACE**('Badar', 'B', '3');

**SELECT** **SPACE**(10);

**SELECT** **RIGHT** (familyName, 5),familyName **FROM** stringOperations;

**SELECT** **LEFT**(familyName, 5),familyName **FROM** stringOperations;

**SELECT** **ASCII**(FName) **FROM** stringOperations;

--Maths functionSELECT COT(6);

**ALTER** **TABLE** stringOperations

**ADD** Amount **float**;

**UPDATE** stringOperations **set** Amount = (30.5);

**SELECT** \* **FROM** stringOperations;

**SELECT** **COS**(Amount) **FROM** stringOperations;

**SELECT** **LOG**(Amount) **FROM** stringOperations;

**SELECT** SQUARE(Amount) **FROM** stringOperations;

**SELECT** **COUNT**(Fname) **AS** NumberOfNames **FROM** Staff s ;

**SELECT** **AVG**(maxRent) **AS** 'avg' **FROM** client;

**SELECT** **MAX**(maxRent) **AS** 'Largest' **FROM** client;

**SELECT** **MIN**(maxRent) **AS** 'Smallest' **FROM** client;

**SELECT** **FLOOR**(Amount) **FROM** stringOperations;

**SELECT** **CEILING**(Amount) **FROM** stringOperations;

## [Muhammad Awais (SP19-BCS-033)](#_Toc2037759433)

# Lab 12

## Common Solution

## Abdul Haseeb Khan (SP19-BCS-001)

## Ashfaq Rahim (SP19-BCS-003)

## Fahad Afzal (SP19-BCS-006)

## Hassaan Shahnawaz (SP19-BCS-008)

## Hassan Ali Jadoon (SP19-BCS-009)

## Khanzada Haider Ali (SP19-BCS-013)

## Imad Ahmad (SP19-BCS-011)

## [Sardar Badar Saghir (SP19-BCS-022)](#_Toc558549338)

## [Muhammad Awais (SP19-BCS-033)](#_Toc2037759433)

# Lab 13

## Common Solution

## Abdul Haseeb Khan (SP19-BCS-001)

## Ashfaq Rahim (SP19-BCS-003)

## Fahad Afzal (SP19-BCS-006)

## Hassaan Shahnawaz (SP19-BCS-008)

## Hassan Ali Jadoon (SP19-BCS-009)

## Khanzada Haider Ali (SP19-BCS-013)

## Imad Ahmad (SP19-BCS-011)

## [Sardar Badar Saghir (SP19-BCS-022)](#_Toc558549338)

## [Muhammad Awais (SP19-BCS-033)](#_Toc2037759433)

# Lab 14

## Common Solution

## Abdul Haseeb Khan (SP19-BCS-001)

## Ashfaq Rahim (SP19-BCS-003)

## Fahad Afzal (SP19-BCS-006)

## Hassaan Shahnawaz (SP19-BCS-008)

## Hassan Ali Jadoon (SP19-BCS-009)

## Khanzada Haider Ali (SP19-BCS-013)

## Imad Ahmad (SP19-BCS-011)

## [Sardar Badar Saghir (SP19-BCS-022)](#_Toc558549338)

## [Muhammad Awais (SP19-BCS-033)](#_Toc2037759433)

# Lab 15

## Common Solution

## Abdul Haseeb Khan (SP19-BCS-001)

## Ashfaq Rahim (SP19-BCS-003)

## Fahad Afzal (SP19-BCS-006)

## Hassaan Shahnawaz (SP19-BCS-008)

## Hassan Ali Jadoon (SP19-BCS-009)

## Khanzada Haider Ali (SP19-BCS-013)

## Imad Ahmad (SP19-BCS-011)

## [Sardar Badar Saghir (SP19-BCS-022)](#_Toc558549338)

## [Muhammad Awais (SP19-BCS-033)](#_Toc2037759433)

# Lab 16

## Common Solution

## Abdul Haseeb Khan (SP19-BCS-001)

## Ashfaq Rahim (SP19-BCS-003)

## Fahad Afzal (SP19-BCS-006)

## Hassaan Shahnawaz (SP19-BCS-008)

## Hassan Ali Jadoon (SP19-BCS-009)

## Khanzada Haider Ali (SP19-BCS-013)

## Imad Ahmad (SP19-BCS-011)

## [Sardar Badar Saghir (SP19-BCS-022)](#_Toc558549338)

## [Muhammad Awais (SP19-BCS-033)](#_Toc2037759433)

# Lab 17

## Common Solution

## Abdul Haseeb Khan (SP19-BCS-001)

## Ashfaq Rahim (SP19-BCS-003)

## Fahad Afzal (SP19-BCS-006)

## Hassaan Shahnawaz (SP19-BCS-008)

## Hassan Ali Jadoon (SP19-BCS-009)

## Khanzada Haider Ali (SP19-BCS-013)

## Imad Ahmad (SP19-BCS-011)

## [Sardar Badar Saghir (SP19-BCS-022)](#_Toc558549338)

## [Muhammad Awais (SP19-BCS-033)](#_Toc2037759433)

# Lab 18

## Common Solution

## Abdul Haseeb Khan (SP19-BCS-001)

## Ashfaq Rahim (SP19-BCS-003)

## Fahad Afzal (SP19-BCS-006)

## Hassaan Shahnawaz (SP19-BCS-008)

## Hassan Ali Jadoon (SP19-BCS-009)

## Khanzada Haider Ali (SP19-BCS-013)

## Imad Ahmad (SP19-BCS-011)

## [Sardar Badar Saghir (SP19-BCS-022)](#_Toc558549338)

## [Muhammad Awais (SP19-BCS-033)](#_Toc2037759433)

# Lab 19

## Common Solution

## Abdul Haseeb Khan (SP19-BCS-001)

## Ashfaq Rahim (SP19-BCS-003)

## Fahad Afzal (SP19-BCS-006)

## Hassaan Shahnawaz (SP19-BCS-008)

## Hassan Ali Jadoon (SP19-BCS-009)

## Khanzada Haider Ali (SP19-BCS-013)

## Imad Ahmad (SP19-BCS-011)

## [Sardar Badar Saghir (SP19-BCS-022)](#_Toc558549338)

## [Muhammad Awais (SP19-BCS-033)](#_Toc2037759433)

# Lab 20

## Common Solution

## Abdul Haseeb Khan (SP19-BCS-001)

## Ashfaq Rahim (SP19-BCS-003)

## Fahad Afzal (SP19-BCS-006)

## Hassaan Shahnawaz (SP19-BCS-008)

## Hassan Ali Jadoon (SP19-BCS-009)

## Khanzada Haider Ali (SP19-BCS-013)

## Imad Ahmad (SP19-BCS-011)

## [Sardar Badar Saghir (SP19-BCS-022)](#_Toc558549338)

## [Muhammad Awais (SP19-BCS-033)](#_Toc2037759433)