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1 Lab 6

1.1 Common Solution

- -- 1. Create Databasecreate database DreamHome-- 2. Set My Working Database in Query Editoruse 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. IName 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, IName 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),dateloined 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, IName, 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'),
('SI37', '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, IName, 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, IName, address, telNo)
values
('K01','laved','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', 'Wagar', 'Zaka', 'H#564 North Nazimabad, KAR', '03237506501'),
('K21'.'Aamir'.'Liagat'.'H#487 Gulshan Igbal, 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','S061','B008'),
('P15','S# 9','LHR','54000','Apartment','2','16000','K15','SQ19','B014'),
('P16','S# 5','HAR','22620','Multi Fam','8','95000','K05','S|37','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, dateloined)
values
('A001','B010','SG5','10/5/2018'),
('A002','B011','S061','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'),
('A016','B020','SW84','9/11/2018'),
('A016','B003','SG76','1/5/2019'),
('A017','B014','SO61','1/25/2019'),
('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;

1.2 Abdul Haseeb Khan (SP19-BCS-001)

- -- 1. Create Databasecreate database DreamHome-- 2. Set My Working Database in Query Editoruse 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, IName 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, IName 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','1000000','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

1.3 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, IName 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, IName 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

1.4 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, IName 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, IName 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','S061','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','S061','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','S061','1/25/2019'),
('A018','B006','SG76','2/3/2019'),
('A019','B015','S061','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
1.5 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, IName 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, IName 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, IName 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','S061','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

1.6 Hassan Ali Jadoon (SP19-BCS-009)

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

```
--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, IName varchar(50) NOT
[address] varchar(50) NOT NULL, telNo varchar(20) NOT NULL)
insert into PrivateOwner (ownerNo, fName, IName, address, telNo)
('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','Wagar','Zaka','H#564 North Nazimabad,KAR','03237506501'),
```

Reviewed by:. Comments: Problems: Rating: 1 - 10

1.7 Imad Ahmad (SP19-BCS-011)

Reviewed by:. Comments:

Problems:

Rating: 1 - 10

1.8 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, IName 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, IName, 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
```

1.9 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

1.10 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, IName varchar(50) NOT
[address] varchar(50) NOT NULL, telNo varchar(20) NOT NULL)
insert into PrivateOwner (ownerNo, fName, IName, 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','Wagar','Zaka','H#564 North Nazimabad,KAR','03237506501'),
('K21','Aamir','Liagat','H#487 Gulshan Igbal, KAR','03196585021')
```

Reviewed by:

Badar

Comments:

He completed His part

Problems:

No

Rating: 1 - 10

10

2 LAB 7

2.1 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, IName 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, IName 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';

2.2 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

<u>ANS</u> Select staffNo as ID, fName as FirstName, IName 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.

<u>ANS</u> SELECT clientNo as StakeHolderID, fName as FirstName, IName 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

2.3 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, IName 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.

<u>SELECT clientNo as StockHolderID, fName as FatherName, IName as Name, telNo as phoneNo, prefType as Preference, maxRent as MaximumRent FROM Client,</u>

--5. List all staff with a salary greater than 10,000. **SELECT salary FROM Staff where salary >10000**;

--6. List all managers and supervisors.

<u>SELECT [position] FROM Staff Where [position] = 'Supervisor' OR [position] = 'Manager';</u>

Reviewed by:.

Comments:

Problems:

Rating: 1 - 10

2.4 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, IName 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, IName 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

2.5 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, IName 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, IName 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

2.6 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,Iname 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, Iname 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

2.7 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, IName 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, IName 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 iob

Problems

No:

Rating: 1 - 10

10

2.8 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, IName 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, IName 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

2.9 Sardar Badar Saghir (SP19-BCS-022)

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, IName 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, IName 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

2.10 Muhammad Awais (SP19-BCS-033)

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, IName 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, IName 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

3 LAB 8

3.1 Common Solution

```
use DreamHome;
SELECT staffNo, fName, IName, 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, IName, position, salary FROM Staff WHERE salary > SOME (SELECT salary FROM Staff WHERE branchNo
SELECT staffNo, fName, IName, position, salary FROM Staff WHERE salary > ALL (SELECT salary FROM Staff WHERE branchNo =
-- For DreamHome case study write at least 3 examples of each category for sorting, grouping and aggregate operations.
SELECT branchNo FROM Branch ORDER BY postcode ASC;
SELECT fName, IName, 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, IName 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;
```

3.2 Abdul Haseeb Khan (SP19-BCS-001)

Reviewed by:. Comments: Problems: Rating: 1 - 10

3.3 Ashfaq Rahim (SP19-BCS-003)

use DreamHome:

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

SELECT staffNo, fName, IName, 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, IName, 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, IName 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

3.4 Fahad Afzal (SP19-BCS-006)

use DreamHome;

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

SELECT staffNo, fName, IName, 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, IName, 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, IName 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

3.5 Hassaan Shahnawaz (SP19-BCS-008)

--Examples

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

SELECT staffNo, fName, IName, 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, IName, position FROM Staff ORDER BY IName 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, IName 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 WHÉRE 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

3.6 Hassan Ali Jadoon (SP19-BCS-009)

Pending	
Reviewed by:.	
Comments:	

Problems:

Rating: 1 - 10

3.7 Khanzada Haider Ali (SP19-BCS-013)

use DreamHome:

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

SELECT staffNo, fName, IName, 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, IName, 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, IName 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

3.8 Imad Ahmad (SP19-BCS-011)

use DreamHome:

Comments:

Rating: 1 - 10

Problems:

```
SELECT staffNo, fName, IName, 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, IName, position, salary FROM Staff WHERE salary > SOME (SELECT
salary FROM Staff WHERE branchNo = 'B003');
SELECT staffNo, fName, IName, 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, IName, 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, IName FROM Staff WHERE (SELECT AVG(salary) FROM Staff) <
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:.
```

3.9 Sardar Badar Saghir (SP19-BCS-022)

--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 salary = (SELECT AVG(salary) FROM Staff)

--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:

Khaznada Haider (sp19-bcs-013)

Comments:

This class is pending by sir

Problems:

Pending

Rating: 1 - 10

Pending

3.10 Muhammad Awais (SP19-BCS-033)

Reviewed by:.

Comments:

Problems:

Rating: 1 - 10

- **4.1** Common Solution
- 4.2 Abdul Haseeb Khan (SP19-BCS-001)
- 4.3 Ashfaq Rahim (SP19-BCS-003)
- **4.4** Fahad Afzal (SP19-BCS-006)
- **4.5** Hassaan Shahnawaz (SP19-BCS-008)
- 4.6 Hassan Ali Jadoon (SP19-BCS-009)
- 4.7 Khanzada Haider Ali (SP19-BCS-013)
- **4.8** Imad Ahmad (SP19-BCS-011)
- **4.9** Sardar Badar Saghir (SP19-BCS-022)
- **4.10** Muhammad Awais (SP19-BCS-033)

- **5.1** Common Solution
- 5.2 Abdul Haseeb Khan (SP19-BCS-001)
- **5.3** Ashfaq Rahim (SP19-BCS-003)
- **5.4** Fahad Afzal (SP19-BCS-006)
- **5.5** Hassaan Shahnawaz (SP19-BCS-008)
- **5.6** Hassan Ali Jadoon (SP19-BCS-009)
- **5.7** Khanzada Haider Ali (SP19-BCS-013)
- **5.8** Imad Ahmad (SP19-BCS-011)
- **5.9** Sardar Badar Saghir (SP19-BCS-022)
- **5.10** Muhammad Awais (SP19-BCS-033)

- **6.1** Common Solution
- **6.2** Abdul Haseeb Khan (SP19-BCS-001)
- **6.3** Ashfaq Rahim (SP19-BCS-003)
- **6.4** Fahad Afzal (SP19-BCS-006)
- **6.5** Hassaan Shahnawaz (SP19-BCS-008)
- **6.6** Hassan Ali Jadoon (SP19-BCS-009)
- **6.7** Khanzada Haider Ali (SP19-BCS-013)
- **6.8** Imad Ahmad (SP19-BCS-011)
- **6.9** Sardar Badar Saghir (SP19-BCS-022)
- **6.10** Muhammad Awais (SP19-BCS-033)

- 7.1 Common Solution
- 7.2 Abdul Haseeb Khan (SP19-BCS-001)
- 7.3 Ashfaq Rahim (SP19-BCS-003)
- **7.4** Fahad Afzal (SP19-BCS-006)
- 7.5 Hassaan Shahnawaz (SP19-BCS-008)
- 7.6 Hassan Ali Jadoon (SP19-BCS-009)
- 7.7 Khanzada Haider Ali (SP19-BCS-013)
- **7.8** Imad Ahmad (SP19-BCS-011)
- **7.9** Sardar Badar Saghir (SP19-BCS-022)
- **7.10** Muhammad Awais (SP19-BCS-033)

- 8.1 Common Solution
- 8.2 Abdul Haseeb Khan (SP19-BCS-001)
- 8.3 Ashfaq Rahim (SP19-BCS-003)
- **8.4** Fahad Afzal (SP19-BCS-006)
- 8.5 Hassaan Shahnawaz (SP19-BCS-008)
- 8.6 Hassan Ali Jadoon (SP19-BCS-009)
- 8.7 Khanzada Haider Ali (SP19-BCS-013)
- **8.8** Imad Ahmad (SP19-BCS-011)

- **8.9** Sardar Badar Saghir (SP19-BCS-022)
- **8.10** Muhammad Awais (SP19-BCS-033)

- 9.1 Common Solution
- 9.2 Abdul Haseeb Khan (SP19-BCS-001)
- **9.3** Ashfaq Rahim (SP19-BCS-003)
- **9.4** Fahad Afzal (SP19-BCS-006)
- 9.5 Hassaan Shahnawaz (SP19-BCS-008)
- 9.6 Hassan Ali Jadoon (SP19-BCS-009)
- 9.7 Khanzada Haider Ali (SP19-BCS-013)
- **9.8** Imad Ahmad (SP19-BCS-011)
- 9.9 Sardar Badar Saghir (SP19-BCS-022)
- **9.10** Muhammad Awais (SP19-BCS-033)

10.1 **Common Solution** 10.2 **Abdul Haseeb Khan (SP19-BCS-001)** 10.3 Ashfaq Rahim (SP19-BCS-003) 10.4 Fahad Afzal (SP19-BCS-006) 10.5 Hassaan Shahnawaz (SP19-BCS-008) 10.6 Hassan Ali Jadoon (SP19-BCS-009) 10.7 **Khanzada Haider Ali (SP19-BCS-013)** 10.8 **Imad Ahmad (SP19-BCS-011)** 10.9 **Sardar Badar Saghir (SP19-BCS-022)** 10.10 **Muhammad Awais (SP19-BCS-033)**

11.1 **Common Solution** 11.2 **Abdul Haseeb Khan (SP19-BCS-001)** 11.3 **Ashfaq Rahim (SP19-BCS-003)** 11.4 Fahad Afzal (SP19-BCS-006) 11.5 Hassaan Shahnawaz (SP19-BCS-008) 11.6 Hassan Ali Jadoon (SP19-BCS-009) 11.7 **Khanzada Haider Ali (SP19-BCS-013)** 11.8 **Imad Ahmad (SP19-BCS-011)** 11.9 **Sardar Badar Saghir (SP19-BCS-022)** 11.10 **Muhammad Awais (SP19-BCS-033)**

12.1 **Common Solution** 12.2 **Abdul Haseeb Khan (SP19-BCS-001)** 12.3 **Ashfaq Rahim (SP19-BCS-003)** 12.4 Fahad Afzal (SP19-BCS-006) 12.5 Hassaan Shahnawaz (SP19-BCS-008) 12.6 Hassan Ali Jadoon (SP19-BCS-009) **12.7 Khanzada Haider Ali (SP19-BCS-013)** 12.8 **Imad Ahmad (SP19-BCS-011)** 12.9 **Sardar Badar Saghir (SP19-BCS-022)** 12.10 **Muhammad Awais (SP19-BCS-033)**

13.1 **Common Solution** 13.2 **Abdul Haseeb Khan (SP19-BCS-001)** 13.3 **Ashfaq Rahim (SP19-BCS-003) 13.4** Fahad Afzal (SP19-BCS-006) 13.5 Hassaan Shahnawaz (SP19-BCS-008) **13.6** Hassan Ali Jadoon (SP19-BCS-009) **13.7 Khanzada Haider Ali (SP19-BCS-013)** 13.8 **Imad Ahmad (SP19-BCS-011)** 13.9 **Sardar Badar Saghir (SP19-BCS-022)** 13.10 **Muhammad Awais (SP19-BCS-033)**

14.1 **Common Solution** 14.2 **Abdul Haseeb Khan (SP19-BCS-001)** 14.3 **Ashfaq Rahim (SP19-BCS-003)** 14.4 Fahad Afzal (SP19-BCS-006) 14.5 Hassaan Shahnawaz (SP19-BCS-008) 14.6 Hassan Ali Jadoon (SP19-BCS-009) 14.7 **Khanzada Haider Ali (SP19-BCS-013)** 14.8 **Imad Ahmad (SP19-BCS-011)** 14.9 **Sardar Badar Saghir (SP19-BCS-022)** 14.10 **Muhammad Awais (SP19-BCS-033)**

15.1 **Common Solution 15.2 Abdul Haseeb Khan (SP19-BCS-001) 15.3 Ashfaq Rahim (SP19-BCS-003) 15.4** Fahad Afzal (SP19-BCS-006) 15.5 Hassaan Shahnawaz (SP19-BCS-008) **15.6** Hassan Ali Jadoon (SP19-BCS-009) **15.7 Khanzada Haider Ali (SP19-BCS-013) 15.8 Imad Ahmad (SP19-BCS-011) 15.9 Sardar Badar Saghir (SP19-BCS-022) 15.10 Muhammad Awais (SP19-BCS-033)**