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# Lab 6

## Common Solution

create database DreamHome;

use DreamHome;

--creating branch table

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);

--creating staff table

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));

--creating client table

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);

--creating privateowner table

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);

--creating PropertyForRent table

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));

--creating viewing table

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)

--creating registration table

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);

--inserting data into branch table

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

VALUES

('C001','I#38 G-13', 'ISB','8092'),

('C002', 'I#78 Supply', 'ABT', '1278'),

('C003', 'I#79 I-10/2', 'ISB', '3987'),

('C004','I#78 Mandia', 'ABT', '2576'),

('C005','I#85 Mirpur', 'ABT', '9087'),

('C006','I#86 Supply', 'ISB', '1265'),

('C007','I#895 Cantt', 'ABT', '3489'),

('C008','I#55 Kalapul', 'ABT', '9871'),

('C009','I#986 Beer', 'HAR', '9087'),

('C010','I#12 Cantt', 'HAV', '5431'),

('A001','3rd Street Satellite Town', 'SGD','40100'),

('A002', '1st Block', 'FSD', '38000'),

('A003', '4th Street Urdu bazar', 'SGD', '40100'),

('A004','5th Block', 'FSD', '38000'),

('A005','3rd Street Urdu bazar', 'SGD', '40100'),

('A006','Sixth Road', 'RWP', '43600'),

('A007','Saadaar', 'RWP', '43600'),

('A008','Deput', 'RWP', '43600'),

('A009','3rd street University Road', 'SGD', '40100'),

('A010','2nd street Queens Chock', 'SGD', '40100'),

('f002','H#38 G-13', 'ISB','8092'),

('f089', 'L-20 maddar ', 'ABT', '1278'),

('f003', 'k#308 h-1', 'LHR', '3987'),

('f004','k#980 Mirpur', 'LHR', '2576'),

('f005','I#85 kott', 'ABT', '9087'),

('f006','k#986 Beer', 'ISB', '1265'),

('f007','k#5895 Kahan pour', 'LHR', '3489'),

('f008',' K#806 Mughal Pura', 'ABT', '9871');

--inserting data into staff table

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

VALUES ('AD0001', 'Adil', 'Mehmood', 'Assistant', 'M', CAST(0x0000641000000000 AS DateTime), CAST(9000 AS Decimal(18, 0)), 'A001'),

('AD0002', 'Abdullah', 'Javed', 'Manager', 'M',CAST(0x0000531200000000 AS DateTime), CAST(18000 AS Decimal(18,0)), 'A002'),

('AD0003', 'Hamza', 'Mushtaq', 'Assistant', 'M',CAST(0x000056D400000000 AS DateTime), CAST(12000 AS Decimal(18,0)), 'A003'),

('AD0004', 'Huzaifa', 'Abid', 'Assistant', 'M', CAST(0x0000C85800000000 AS DateTime), CAST(24000 AS Decimal(18,0)), 'A004'),

('AD0005', 'Ayesha', 'Latif', 'Assistant', 'F', CAST(0x0000CFF200000000 AS DateTime), CAST(30000 AS Decimal(18,0)), 'A005'),

('AD0006', 'Komal', 'Mushtaq', 'Assistant', 'F', CAST(0x00005D6000000000 AS DateTime), CAST(9000 AS Decimal(18, 0)), 'A006'),

('AD0007', 'Rafiya', 'Siddique', 'Assistant', 'F', CAST(0x00005D6000000000 AS DateTime), CAST(9000 AS Decimal(18, 0)), 'A007'),

('AD0008', 'Alina', 'Mukhtiar', 'Assistant', 'F', CAST(0x00005D6000000000 AS DateTime), CAST(9000 AS Decimal(18, 0)), 'A008'),

('AD0009', 'Kamran', 'Ali', 'Supervisor', 'M', CAST(0x00005D6000000000 AS DateTime), CAST(9000 AS Decimal(18, 0)), 'A009'),

('AD00010', 'Khurram', 'Shehzad', 'Supervisor', 'M', CAST(0x00005D6000000000 AS DateTime), CAST(9000 AS Decimal(18, 0)), 'A0010')

('SG5', 'Mary', 'Howe', 'Assistant', 'F', '1988/08/23', 20000, 'C002'),

('SL21', 'David', 'Ford', 'Assistant', 'M','1987/11/9', 100000, 'C003'),

('SG37', 'Anna', 'Bleech', 'Supervisor', 'F','1986/12/8', 90000, 'C003'),

('SA9', 'Susa', 'Brand', 'Receptionist', 'F', '1989/5/9', 120000, 'C003'),

('SG14', 'Joh', 'White', 'Manager', 'M', '1992/2/12', 100000, 'C004'),

('SL41', 'Julie', 'Lee', 'Assistant', 'F', '1990/8/3', 50000, 'C002'),

('SR68', 'Akbar', 'Shoaib', 'Assistant Manager', 'M', '1996/9/8', 70000, 'C005'),

('SK32', 'Mahrukh', 'Khan', 'Customer Service', 'F', '1994/9/8', 60000, 'C010'),

('SB83', 'Ali', 'Hassan', 'Receptionist', 'M', '1991/4/6', 40000, 'C009'),

(' SP98', 'Hamid', 'Qazi', 'Security Guard', 'M', '1982/9/12', 10000, 'C007'),

('Sh4', 'Saba', 'Howe', 'Assistant', 'F', '1999/08/23', 30000, 'f002'),

('Sk21', 'Julie', 'Ford', 'Assistant', 'M','1985/11/9', 50000, 'f003'),

('Sh37', 'Anna', 'Bleech', 'Supervisor', 'F','1987/12/8', 80000, 'f003'),

('Sh89', 'Sana', 'Brand', 'Receptionist', 'F', '2000/5/9', 100000, 'f003'),

('Sk14', 'Jon', 'White', 'Manager', 'M', '1993/2/12', 300000, 'f004'),

('Sk41', 'Julie', 'Lee', 'Assistant', 'F', '1988/3', 50000, 'f002'),

('Sl68', 'Arham', 'Saqib', 'Assistant Manager', 'M', '1996/9/8', 70000, 'f005'),

('SK92', 'Mushk', 'Khan', 'Customer Service', 'F', '1994/9/8', 60000, 'f010'),

('Sh83', 'Ali', 'Hassan', 'Receptionist', 'M', '1991/4/6', 40000, 'f009'),

('So88', 'Hira', 'Qazi', 'Security Guard', 'M', '1982/9/12', 10000, 'f007');

--inserting into client table

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

values ('AD001', 'Muhammad', 'Hamza', '0341-3487431', 'Apartment', '160000'),

('AD002', 'Muhammad', 'Ali', '0341-3412312', 'Apartment', '180000'),

('AD003', 'Asim', 'Azhar', '0347-2346553', 'House', '24000'),

('AD004', 'Adil', 'Mehmood', '0341-3123565', 'Apartment', '5000'),

('AD005', 'Atif', 'Aslam', '0320-3983493', 'House', '3000'),

('AD006', 'Touqeef', 'Rehman', '0312-9817818', 'Room', '2000'),

('AD007', 'Haseeb', 'Khan', '0300-9182713', 'Room', '1400'),

('AD008', 'Sharjeel', 'Khan', '0344-3912399', 'House', '2000'),

('AD009', 'Ahmed', 'Shah', '0340-1908761', 'Apartment', '20000'),

('AD0010', 'Hamza', 'Javed', '0331-7096413', 'House', '2000')

('1', 'Hamza', 'Muhstaq', '0341-3487431', 'Apartment', '16000'),

('2', 'Hamza', 'Abid', '0341-3412312', 'Apartment', '18000'),

('3', 'Imad', 'Ahmad', '0347-2346553', 'House', '24000'),

('4', 'Adil', 'Mehmood', '0341-3123565', 'Apartment', '15000'),

('5', 'Zullkif', 'Rehman', '0320-3983493', 'House', '30000'),

('6', 'Huzaifa', 'Abid', '0312-9817818', 'Room', '12000'),

('7', 'Haseeb', 'Khan', '0300-9182713', 'Room', '14000'),

('8', 'Sharjeel', 'Khan', '0344-3912399', 'House', '22000'),

('9', 'Ahmed', 'Shah', '0340-1908761', 'Apartment', '20000'),

('10', 'Hamza', 'Javed', '0331-7096413', 'House', '24000');

--inserting into privateowner table

insert into privateowner (ownerNo, fName, lName, address, telNO)

values('AD0001','Huzaifa','Abid','G-13', '0331-132326543'),

('AD0002','Hamza','Khalid', 'I#78 Supply', '0332-913268'),

('AD0003','Adeel','Waraich', 'I#79 I-10/2', '0330-978323223'),

('AD0004','Zeeshan','Akhtar','I#78 Mandia', '0336-248789'),

('AD0005','Asif','Niazi','I#85 Supply', '0344-12373466'),

('AD0006','Shan','Shahd','I#86 Supply', '0324-22145538'),

('AD0007','Hanzala','Maqsood','I#895 Cantt', '0314-7787672'),

('AD0008','Ahmed','Ali','I#55 Kalapul', '0304-5591231'),

('AD0009','Zain','Farooq','I#986 Beer', '0334-322448123'),

('AD00010','Ibrahim','Uziar','I#12 Cantt', '0314-91442234')

('13346','ayesha','latif','f-12', '0331-1436543'),

('20283','Hafsa','Abid', 'I#78 cantt', '0332-91234568'),

('25456','Adil','Khan', 'I#79 cantt', '0330-9756565'),

('56362','Zanib','saqib','k#78 Mughal Pura', '0336-12789'),

('11298','Asif','Kamal', 'k#30 h-1', '0344-1237686'),

('56876','Sara','Ali','L-20 maddar', '0324-2214598'),

('43635','Hina','mujahid','k#895 Cantt', '0314-98887672'),

('15665','Ahmed','Hassan','k#55 Kalapul', '0304-9991231'),

('85468','zoya','abid','k#986 Beer', '0334-3228123'),

('17876','ayesha','Saqib','k#12 Cantt', '0314-9122234');

--inserting into propertyforrent table

insert into propertyforrent ( propertyNo, street, city, postcode, type, rooms, rent, ownerNo, staffNo, branchNo)

values ('AD101','I#38 G-13', 'ISB','8092','Room','1','12000','13456','AD01','AD1'),

('AD102','I#78 Mandia', 'ABT','1278','Apartment','2','10000','19283','AD02','AD2'),

('AD103','I#85 Mirpur', 'ISB','3987','Aparment','3','14000','23456','AD03','AD3'),

('AD104','I#12 Cantt', 'ABT','2576','Room','1','8000','87362','AD04','AD4'),

('AD105','I#78 Mandia', 'ISB','9087','Apartment','2','10000','12098','AD05','AD5'),

('AD106','I#55 Kalapul', 'ABT','1265','Apartment','3','15000','90876','AD06','AD6'),

('AD107','I#12 Cantt', 'ABT','3489','Apartment','4','18000','78635','AD07','AD7'),

('AD108','I#86 Supply', 'ISB','1265','House','4','24000','17865','AD08','AD8'),

('AD109','I#38 G-13', 'ISB','9087','House','3','22000','87268','AD09','AD9'),

('AD1010','I#86 Supply', 'ABT','5431','Apartment','2','14000','AD10','SR68','AD10'),

('A110','I#38 G-13', 'ISB','8092','Room','1','12000','13456','SA9','C001'),

('B110','I#78 Mandia', 'ABT','1278','Apartment','2','10000','19283','SG14','C002'),

('A111','I#85 Mirpur', 'ISB','3987','Aparment','3','14000','23456','SG37','C003'),

('C065','I#12 Cantt', 'ABT','2576','Room','1','8000','87362','SG5','C004'),

('D124','I#78 Mandia', 'ISB','9087','Apartment','2','10000','12098','SL21','C005'),

('G116','I#55 Kalapul', 'ABT','1265','Apartment','3','15000','90876','SL41','C006'),

('A140','I#12 Cantt', 'ABT','3489','Apartment','4','18000','78635','SP98','C007'),

('H180','I#86 Supply', 'ISB','1265','House','4','24000','17865','SK32','C008'),

('A230','I#38 G-13', 'ISB','9087','House','3','22000','87268','SB83','C009'),

('H210','I#86 Supply', 'ABT','5431','Apartment','2','14000','12876','SR68','C010');

--inserting into registration

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

values ('AD1101','AD1','AD01','1999/12/24'),

(''AD1102','AD2','AD02','1991/11/18'),

(''AD1103','AD3','AD03','1994/04/12'),

(''AD1104','AD4','AD04','1989/01/07'),

(''AD1105','AD5','AD05','1995/07/29'),

(''AD1106','AD6','AD06','2000/08/19'),

(''AD1107','AD7','AD07','1996/11/01'),

(''AD1108','AD8','AD08','1986/04/12'),

(''AD1109','AD9','AD09','1990/10/05'),

(''AD11010','AD10','AD10','1990/05/14'),

('1','C001','SG14','1999/12/24'),

('2','C002','SA9','1991/11/18'),

('3','C003','SG37','1994/04/12'),

('4','C004','SG5','1989/01/07'),

('5','C005','SL21','1995/07/29'),

('6','C006','SL41','2000/08/19'),

('7','C007','SP28','1996/11/01'),

('8','C008','SK32','1986/04/12'),

('9','C009','SB83','1990/10/05'),

('10','C010','SR68','1990/05/14');

--inserting into viewing

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

values('AD001','A110','2000/05/14','GOOD'),

('AD002','B110','2001/11/21','GOOD'),

('AD003','A111','2001/04/04','GOOD'),

('AD004','C065','2000/01/01','GOOD'),

('AD005','D124','2004/06/19','GOOD'),

('AD006','G116','1999/08/02','GOOD'),

('AD007','A140','2005/07/09','GOOD'),

('AD008','H180','2000/02/26','GOOD'),

('AD009','A230','1997/10/12','GOOD'),

('AD0010','B210','2003/12/24','GOOD'),

('1','A110','2000/05/14','GOOD'),

('2','B110','2001/11/21','GOOD'),

('3','A111','2001/04/04','GOOD'),

('4','C065','2000/01/01','GOOD'),

('5','D124','2004/06/19','GOOD'),

('6','G116','1999/08/02','GOOD'),

('7','A140','2005/07/09','GOOD'),

('8','H180','2000/02/26','GOOD'),

('9','A230','1997/10/12','GOOD'),

('10','B210','2003/12/24','GOOD');

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

## ABDULLAH JAVED (SP19-BCS-002)

-- 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. Add Sample Data

-- 4.1 Single Row Example

INSERT into Branch (branchNo, street, city, postcode) VALUES ('AB0', 'H#79 I-10/2', 'ISB', '52000');

-- 4.2 Multiple Rows Example

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

VALUES

('AB1', 'H#114 iqbal park', 'SGD', '40100'),

('AB2', 'H#32 COLONY', 'RWP', '54900'),

('AB3','H#71 SHAHEEN PARK', 'FSD', '48800'),

('AB4', 'H#18 ABDULLAH TOWN', 'JHG', '32400'),

('AB5', 'H#12 REHMAN TOWN', 'ISB', '32300'),

('AB6', 'H#42 REHAN TOWN', 'SGD', '40100'),

('AB7', 'H#40 ADIL TOWN ', 'FSD', '23500'),

('AB8', 'H#70 ASAD PARK', 'DIK', '43560'),

('AB9', 'H#12 REMANABAD', 'RWP', '78800'),

('AB10', 'H#230 NEW CANTT', 'PSW', '34987')

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

VALUES

('AB21', 'Steve', 'Jobs', 'Director', 'M', CAST(03161998 AS DateTime), CAST(1000000 AS Decimal(10, 0)), 'AB505'),

('AB22', 'Bill', 'Gates', 'Assistant', 'M', CAST(16121998 AS DateTime), CAST(1000000 AS Decimal(10, 0)), 'AB570'),

('AB23', 'Annie', 'Thomson', 'Manager', 'F', CAST(16121998 AS DateTime), CAST(1000000 AS Decimal(10, 0)), 'AB320'),

('AB24', 'Sand', 'Wood', 'Assistant', 'M', CAST(16121998 AS DateTime), CAST(1000000 AS Decimal(10, 0)), 'AB200'),

('AB25', 'John', 'Duo', 'Director', 'M', CAST(16121998 AS DateTime), CAST(1000000 AS Decimal(10, 0)), 'AB571'),

('AB26', 'Penzy', 'Werth', 'Supervisor', 'F', CAST(16121998 AS DateTime), CAST(1000000 AS Decimal(10, 0)),'AB230'),

('AB27', 'Rozi', 'Mith', 'Manager', 'F', CAST(16121998 AS DateTime), CAST(1000000 AS Decimal(10, 0)),'AB231'),

('AB28', 'Bint', 'Lamo', 'Manager', 'F', CAST(16121998 AS DateTime), CAST(1000000 AS Decimal(10, 0)), 'AB123'),

('AB29', 'Ender', 'Genero', 'Manager', 'F', CAST(16121998 AS DateTime), CAST(1000000 AS Decimal(10, 0)),'AB576'),

('AB30', 'Lord', 'Curzen', 'Assistant', 'M', CAST(16121998 AS DateTime), CAST(1000000 AS Decimal(10, 0)), 'AB340')

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

VALUES ('AB11', 'Armed', 'Goar', 'social media', '03001234567','20000'),

('AB12', 'Mint', 'Margaret', 'online', '03201234567','18000'),

('AB13', 'Randi', 'Otan', 'social media', '03101234567','13000'),

('AB14', 'Gorge', 'Bush', 'call', '03111234567','30000'),

('AB15', 'Donald', 'Trump', 'Media', '03021234567','50000'),

('AB16', 'Helry', 'Klintan', 'social media', '03001234567','160000'),

('AB17', 'Lord', 'Curzen', 'network', '03031234567','45000'),

('AB18', 'Real', 'Mont', 'Media', '03001234567','34000'),

('AB19', 'Anthony', 'Broad', 'social media','03041234567','78000'),

('AB20', 'Tom', 'Cruze', 'social media', '03001234567','20000')

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

VALUES ('AB31', 'Orthor', 'Due','lahore', '03001234567'),

('AB32', 'Triple', 'H', 'rawalpindi', '03201234567'),

('AB33', 'Randi', 'Otan', 'islamabad', '03101234567'),

('AB34', 'Gorge', 'Bush', 'sargodha', '03111234567'),

('AB35', 'Donald', 'Trump', 'faislabad', '03021234567'),

('AB36', 'Helry', 'Klintan', 'karachi', '03001234567'),

('AB37', 'Lord', 'Curzen', 'jhang', '03031234567'),

('AB38', 'Real', 'Mont', 'taxila', '03001234567'),

('AB39', 'Anthony', 'Broad', 'abbotabad','03041234567'),

('AB40', 'Tom', 'Cruze', 'murree', '03001234567')

insert into propertyforrent ( propertyNo, street, city, postcode, type, rooms, rent, ownerNo, staffNo, branchNo)

values ('AB41','St#114', 'SGD','40100','4','house','13000','42372','AB001','AB1'),

('AB42','St#114', 'RWP','38900','Apartment','2','10000','45678','AB002','AB2'),

('AB43','St#03', 'ISB','45600','Aparment','3','14000','42347','AB003','AB3'),

('AB44','St#14', 'KAR','12567','Room','1','8000','87362','AB004','AB4'),

('AB45','St#11', 'FSD','35900','Apartment','2','10000','12098','AB005','AB5'),

('AB46','St#18', 'PSW','23800','Apartment','3','15000','90876','AB006','AB6'),

('AB47','St#42', 'LHR','41750','Apartment','4','18000','78635','AB007','AB7'),

('AB48','St#56', 'JHG','28600','House','4','24000','17865','AB008','AB8'),

('AB49','St#32', 'MUL','67700','House','3','22000','87268','AB009','AB9'),

('AB50','St#21', 'SGD','40100','Apartment','2','21000','42300','AB010','AB10');

INSERT INTO Viewing(clientNo, propertyNo, viewDate, comment)

Values('AB51','AB111','2000/05/14','GOOD'),

('AB52','AB222','2000/12/12','GOOD'),

('AB53','AB333','2001/04/04','GOOD'),

('AB54','AB444','2002/01/01','GOOD'),

('AB55','AB555','2003/06/19','GOOD'),

('AB56','AB666','1998/08/02','GOOD'),

('AB57','AB777','2004/07/09','GOOD'),

('AB58','AB888','2005/02/26','GOOD'),

('AB59','AB999','1999/10/12','GOOD'),

('AB60','AB000','2006/12/24','GOOD');

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

values ('AB61','AB1','AB01','1998/12/12'),

('AB62','AB2','AB02','1999/11/18'),

('AB63','AB3','AB03','1994/04/12'),

('AB64','AB4','AB04','1989/01/07'),

('AB65','AB5','AB05','1996/07/29'),

('AB66','AB6','AB06','2001/08/19'),

('AB67','AB7','AB07','1997/11/01'),

('AB68','AB8','AB08','1986/04/12'),

('AB69','AB9','AB09','2002/10/05'),

('AB70','AB10','AB010','2000/05/14');

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

Reviewed by:

Muhammad Adil Mehmood (SP19-BCS-014)

Comments:

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

Problems:

No problem at all

Rating: 1 – 10

10

## HAMZA MUSHTAQ (SP19-BCS-007)

use dreamhome;

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

VALUES

('C011','I#38 BYPASS', 'ISB','8092'),

('C012', 'I#78 HASSAN ROAD', 'ABT', '1278'),

('C013', 'I#79 G-10/2', 'ISB', '3987'),

('C014','I#78 MANILA ROAD', 'ABT', '2576'),

('C015','I#85 CANTT', 'ABT', '9087'),

('C016','I#86 I-9/2', 'ISB', '1265'),

('C017','I#895 I-8/4', 'ISB', '3489'),

('C018','I#55 G-8/4', 'ISB', '9871'),

('C019','I#986 MANDI ROAD', 'HAR', '9087'),

('C020','I#12 F-8/2', 'ISB', '5431');

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

values ('SA49', 'Alex', 'Howe', 'Assistant', 'F', '1988/08/23', 20000, 'C002'),

('SJ14', 'Daeis', 'Ford', 'Assistant', 'M','1987/11/9', 100000, 'C003'),

('SK37', 'Annabelis', 'Bleech', 'Supervisor', 'F','1986/12/8', 90000, 'C003'),

('SL5', 'Sushab', 'Brand', 'Receptionist', 'F', '1989/5/9', 120000, 'C003'),

('SS21', 'Johnny', 'White', 'Manager', 'M', '1992/2/12', 100000, 'C004'),

('SB41', 'Judie', 'Lee', 'Assistant', 'F', '1990/8/3', 50000, 'C002'),

('SM98', 'Ahmed', 'Shoaib', 'Assistant Manager', 'M', '1996/9/8', 70000, 'C005'),

('SL32', 'Meerukh', 'Khan', 'Customer Service', 'F', '1994/9/8', 60000, 'C010'),

('SE83', 'Hamza', 'Hassan', 'Receptionist', 'M', '1991/4/6', 40000, 'C009'),

('SX68', 'Hammas', 'Qazi', 'Security Guard', 'M', '1982/9/12', 10000, 'C007');

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

values ('1', 'Hamza', 'Khalid', '0341-3412312', 'Apartment', '18000'),

('2', 'Hamid', 'Muhstaq', '0341-3412312', 'Apartment', '18000'),

('3', 'Imdadullah', 'Ahmad', '0347-2346553', 'House', '24000'),

('4', 'Ameer', 'Mehmood', '0341-3123565', 'Apartment', '15000'),

('5', 'Zumeer', 'Rehman', '0320-3983493', 'House', '30000'),

('6', 'Humsa', 'Abid', '0312-9817818', 'Room', '12000'),

('7', 'Hafeez', 'Khan', '0300-9182713', 'Room', '14000'),

('8', 'Sher', 'Khan', '0344-3912399', 'House', '22000'),

('9', 'Ahmaz', 'Shah', '0340-1908761', 'Apartment', '20000'),

('10', 'Hamis', 'Kiyani', '0331-7096413', 'House', '24000');

insert into privateowner (ownerNo, fName, lName, address, telNO)

values('13456','Zeeshan','Abid','G-13', '0331-1006543'),

('19283','Shakeel','Abid', 'I#78 Supply', '0332-9123768'),

('23456','Adnan','Khan', 'I#79 I-10/2', '0330-9786523'),

('87362','Ahmed','Saleem','I#78 Mandia', '0336-1238789'),

('12098','Asfi','Khan','I#85 Supply', '0344-1237686'),

('90876','Shanawaz','Ali','I#86 Supply', '0324-2214598'),

('78635','Haneez','Tahir','I#895 Cantt', '0314-9887672'),

('17865','Ahmer','Hassan','I#55 Kalapul', '0304-9991231'),

('87268','Zagyam','Asim','I#986 Beer', '0334-3228123'),

('12876','Ibrar','Saqib','I#12 Cantt', '0314-9122234');

insert into propertyforrent ( propertyNo, street, city, postcode, type, rooms, rent, ownerNo, staffNo, branchNo)

values ('A110','I#38 H-13', 'ISB','8092','Room','1','12000','13456','SA9','C001'),

('B110','I#78 Cantt', 'ABT','1278','Apartment','2','10000','19283','SG14','C002'),

('A111','I#85 I-9/3', 'ISB','3987','Aparment','3','14000','23456','SG37','C003'),

('C065','I#12 Gurdawara', 'ABT','2576','Room','1','8000','87362','SG5','C004'),

('D124','I#78 Kalapull', 'ISB','9087','Apartment','2','10000','12098','SL21','C005'),

('G116','I#55 Nawasher', 'ABT','1265','Apartment','3','15000','90876','SL41','C006'),

('A140','I#12 Supply', 'ABT','3489','Apartment','4','18000','78635','SP98','C007'),

('H180','I#86 PMA Road', 'ISB','1265','House','4','24000','17865','SK32','C008'),

('A230','I#38 F-8/3', 'ISB','9087','House','3','22000','87268','SB83','C009'),

('H210','I#86 Adda', 'ABT','5431','Apartment','2','14000','12876','SR68','C010');

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

values ('1','C001','SG14','1999/12/24'),

('2','C002','GA9','1991/11/18'),

('3','C003','HG37','1994/04/12'),

('4','C004','IG5','1989/01/07'),

('5','C005','JL21','1995/07/29'),

('6','C006','KL41','2000/08/19'),

('7','C007','BP28','1996/11/01'),

('8','C008','DK32','1986/04/12'),

('9','C009','YB83','1990/10/05'),

('10','C010','LR68','1990/05/14');

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

values('1','Y110','2000/05/14','GOOD'),

('2','H110','2001/11/21','GOOD'),

('3','U111','2001/04/04','GOOD'),

('4','K065','2000/01/01','GOOD'),

('5','S124','2004/06/19','AVERAGE'),

('6','C116','1999/08/02','SATISFACTORY'),

('7','I140','2005/07/09','GOOD'),

('8','L180','2000/02/26','AVERAGE'),

('9','S230','1997/10/12','GOOD'),

('10','L210','2003/12/24','GOOD');

Reviewed by:.

Comments:

Problems:

Rating: 1 – 10

## MUHAMMAD ADIL MEHMOOD (SP19-BCS-014)

create database DreamHome

use DreamHome

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);

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));

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)

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)

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));

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)

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 Branch (branchNo, street, city, postcode)

VALUES

('AD1','3rd Street Satellite Town', 'SGD','40100'),

('AD2', '1st Block', 'FSD', '38000'),

('AD3', '4th Street Urdu bazar', 'SGD', '40100'),

('AD4','5th Block', 'FSD', '38000'),

('AD5','3rd Street Urdu bazar', 'SGD', '40100'),

('AD6','Sixth Road', 'RWP', '43600'),

('AD7','Saadaar', 'RWP', '43600'),

('AD8','Deput', 'RWP', '43600'),

('AD9','3rd street University Road', 'SGD', '40100'),

('AD10','2nd street Queens Chock', 'SGD', '40100');

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

VALUES ('AD01', 'Adil', 'Mehmood', 'Assistant', 'M', CAST(0x0000641000000000 AS DateTime), CAST(9000 AS Decimal(18, 0)), 'A001'),

('AD02', 'Abdullah', 'Javed', 'Manager', 'M',CAST(0x0000531200000000 AS DateTime), CAST(18000 AS Decimal(18,0)), 'A002'),

('AD03', 'Hamza', 'Mushtaq', 'Assistant', 'M',CAST(0x000056D400000000 AS DateTime), CAST(12000 AS Decimal(18,0)), 'A003'),

('AD04', 'Huzaifa', 'Abid', 'Assistant', 'M', CAST(0x0000C85800000000 AS DateTime), CAST(24000 AS Decimal(18,0)), 'A004'),

('AD05', 'Ayesha', 'Latif', 'Assistant', 'F', CAST(0x0000CFF200000000 AS DateTime), CAST(30000 AS Decimal(18,0)), 'A005'),

('AD06', 'Komal', 'Mushtaq', 'Assistant', 'F', CAST(0x00005D6000000000 AS DateTime), CAST(9000 AS Decimal(18, 0)), 'A006'),

('AD07', 'Rafiya', 'Siddique', 'Assistant', 'F', CAST(0x00005D6000000000 AS DateTime), CAST(9000 AS Decimal(18, 0)), 'A007'),

('AD08', 'Alina', 'Mukhtiar', 'Assistant', 'F', CAST(0x00005D6000000000 AS DateTime), CAST(9000 AS Decimal(18, 0)), 'A008'),

('AD09', 'Kamran', 'Ali', 'Supervisor', 'M', CAST(0x00005D6000000000 AS DateTime), CAST(9000 AS Decimal(18, 0)), 'A009'),

('AD010', 'Khurram', 'Shehzad', 'Supervisor', 'M', CAST(0x00005D6000000000 AS DateTime), CAST(9000 AS Decimal(18, 0)), 'A0010');

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

values ('AD001', 'Muhammad', 'Hamza', '0341-3487431', 'Apartment', '160000'),

('AD002', 'Muhammad', 'Ali', '0341-3412312', 'Apartment', '180000'),

('AD003', 'Asim', 'Azhar', '0347-2346553', 'House', '24000'),

('AD004', 'Adil', 'Mehmood', '0341-3123565', 'Apartment', '5000'),

('AD005', 'Atif', 'Aslam', '0320-3983493', 'House', '3000'),

('AD006', 'Touqeef', 'Rehman', '0312-9817818', 'Room', '2000'),

('AD007', 'Haseeb', 'Khan', '0300-9182713', 'Room', '1400'),

('AD008', 'Sharjeel', 'Khan', '0344-3912399', 'House', '2000'),

('AD009', 'Ahmed', 'Shah', '0340-1908761', 'Apartment', '20000'),

('AD0010', 'Hamza', 'Javed', '0331-7096413', 'House', '2000');

insert into privateowner (ownerNo, fName, lName, address, telNO)

values('AD0001','Huzaifa','Abid','G-13', '0331-132326543'),

('AD0002','Hamza','Khalid', 'I#78 Supply', '0332-913268'),

('AD0003','Adeel','Waraich', 'I#79 I-10/2', '0330-978323223'),

('AD0004','Zeeshan','Akhtar','I#78 Mandia', '0336-248789'),

('AD0005','Asif','Niazi','I#85 Supply', '0344-12373466'),

('AD0006','Shan','Shahd','I#86 Supply', '0324-22145538'),

('AD0007','Hanzala','Maqsood','I#895 Cantt', '0314-7787672'),

('AD0008','Ahmed','Ali','I#55 Kalapul', '0304-5591231'),

('AD0009','Zain','Farooq','I#986 Beer', '0334-322448123'),

('AD00010','Ibrahim','Uziar','I#12 Cantt', '0314-91442234');

insert into propertyforrent ( propertyNo, street, city, postcode, type, rooms, rent, ownerNo, staffNo, branchNo)

values ('AD101','I#38 G-13', 'ISB','8092','Room','1','12000','13456','AD01','AD1'),

('AD102','I#78 Mandia', 'ABT','1278','Apartment','2','10000','19283','AD02','AD2'),

('AD103','I#85 Mirpur', 'ISB','3987','Aparment','3','14000','23456','AD03','AD3'),

('AD104','I#12 Cantt', 'ABT','2576','Room','1','8000','87362','AD04','AD4'),

('AD105','I#78 Mandia', 'ISB','9087','Apartment','2','10000','12098','AD05','AD5'),

('AD106','I#55 Kalapul', 'ABT','1265','Apartment','3','15000','90876','AD06','AD6'),

('AD107','I#12 Cantt', 'ABT','3489','Apartment','4','18000','78635','AD07','AD7'),

('AD108','I#86 Supply', 'ISB','1265','House','4','24000','17865','AD08','AD8'),

('AD109','I#38 G-13', 'ISB','9087','House','3','22000','87268','AD09','AD9'),

('AD1010','I#86 Supply', 'ABT','5431','Apartment','2','14000','AD10','SR68','AD10');

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

values ('AD1101','AD1','AD01','1999/12/24'),

(''AD1102','AD2','AD02','1991/11/18'),

(''AD1103','AD3','AD03','1994/04/12'),

(''AD1104','AD4','AD04','1989/01/07'),

(''AD1105','AD5','AD05','1995/07/29'),

(''AD1106','AD6','AD06','2000/08/19'),

(''AD1107','AD7','AD07','1996/11/01'),

(''AD1108','AD8','AD08','1986/04/12'),

(''AD1109','AD9','AD09','1990/10/05'),

(''AD11010','AD10','AD10','1990/05/14');

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

values('AD001','A110','2000/05/14','GOOD'),

('AD002','B110','2001/11/21','GOOD'),

('AD003','A111','2001/04/04','GOOD'),

('AD004','C065','2000/01/01','GOOD'),

('AD005','D124','2004/06/19','GOOD'),

('AD006','G116','1999/08/02','GOOD'),

('AD007','A140','2005/07/09','GOOD'),

('AD008','H180','2000/02/26','GOOD'),

('AD009','A230','1997/10/12','GOOD'),

('AD0010','B210','2003/12/24','GOOD');

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

Reviewed by:.

Badar

Comments:

Complete the task according to the requirements.

Problems:

no

Rating: 1 – 10

10

## SAIF UR REHMAN (SP19-BCS-021)

create database DreamHome

use DreamHome

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);

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));

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)

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)

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));

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)

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 Branch (branchNo, street, city, postcode)

VALUES

('AD1','3rd Street Satellite Town', 'SGD','40100'),

('AD2', '1st Block', 'FSD', '38000'),

('AD3', '4th Street Urdu bazar', 'SGD', '40100'),

('AD4','5th Block', 'FSD', '38000'),

('AD5','3rd Street Urdu bazar', 'SGD', '40100'),

('AD6','Sixth Road', 'RWP', '43600'),

('AD7','Saadaar', 'RWP', '43600'),

('AD8','Deput', 'RWP', '43600'),

('AD9','3rd street University Road', 'SGD', '40100'),

('AD10','2nd street Queens Chock', 'SGD', '40100');

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

VALUES ('AD01', 'Adil', 'Mehmood', 'Assistant', 'M', CAST(0x0000641000000000 AS DateTime), CAST(9000 AS Decimal(18, 0)), 'A001'),

('AD02', 'Abdullah', 'Javed', 'Manager', 'M',CAST(0x0000531200000000 AS DateTime), CAST(18000 AS Decimal(18,0)), 'A002'),

('AD03', 'Hamza', 'Mushtaq', 'Assistant', 'M',CAST(0x000056D400000000 AS DateTime), CAST(12000 AS Decimal(18,0)), 'A003'),

('AD04', 'Huzaifa', 'Abid', 'Assistant', 'M', CAST(0x0000C85800000000 AS DateTime), CAST(24000 AS Decimal(18,0)), 'A004'),

('AD05', 'Ayesha', 'Latif', 'Assistant', 'F', CAST(0x0000CFF200000000 AS DateTime), CAST(30000 AS Decimal(18,0)), 'A005'),

('AD06', 'Komal', 'Mushtaq', 'Assistant', 'F', CAST(0x00005D6000000000 AS DateTime), CAST(9000 AS Decimal(18, 0)), 'A006'),

('AD07', 'Rafiya', 'Siddique', 'Assistant', 'F', CAST(0x00005D6000000000 AS DateTime), CAST(9000 AS Decimal(18, 0)), 'A007'),

('AD08', 'Alina', 'Mukhtiar', 'Assistant', 'F', CAST(0x00005D6000000000 AS DateTime), CAST(9000 AS Decimal(18, 0)), 'A008'),

('AD09', 'Kamran', 'Ali', 'Supervisor', 'M', CAST(0x00005D6000000000 AS DateTime), CAST(9000 AS Decimal(18, 0)), 'A009'),

('AD010', 'Khurram', 'Shehzad', 'Supervisor', 'M', CAST(0x00005D6000000000 AS DateTime), CAST(9000 AS Decimal(18, 0)), 'A0010');

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

values ('AD001', 'Muhammad', 'Hamza', '0341-3487431', 'Apartment', '160000'),

('AD002', 'Muhammad', 'Ali', '0341-3412312', 'Apartment', '180000'),

('AD003', 'Asim', 'Azhar', '0347-2346553', 'House', '24000'),

('AD004', 'Adil', 'Mehmood', '0341-3123565', 'Apartment', '5000'),

('AD005', 'Atif', 'Aslam', '0320-3983493', 'House', '3000'),

('AD006', 'Touqeef', 'Rehman', '0312-9817818', 'Room', '2000'),

('AD007', 'Haseeb', 'Khan', '0300-9182713', 'Room', '1400'),

('AD008', 'Sharjeel', 'Khan', '0344-3912399', 'House', '2000'),

('AD009', 'Ahmed', 'Shah', '0340-1908761', 'Apartment', '20000'),

('AD0010', 'Hamza', 'Javed', '0331-7096413', 'House', '2000');

insert into privateowner (ownerNo, fName, lName, address, telNO)

values('AD0001','Huzaifa','Abid','G-13', '0331-132326543'),

('AD0002','Hamza','Khalid', 'I#78 Supply', '0332-913268'),

('AD0003','Adeel','Waraich', 'I#79 I-10/2', '0330-978323223'),

('AD0004','Zeeshan','Akhtar','I#78 Mandia', '0336-248789'),

('AD0005','Asif','Niazi','I#85 Supply', '0344-12373466'),

('AD0006','Shan','Shahd','I#86 Supply', '0324-22145538'),

('AD0007','Hanzala','Maqsood','I#895 Cantt', '0314-7787672'),

('AD0008','Ahmed','Ali','I#55 Kalapul', '0304-5591231'),

('AD0009','Zain','Farooq','I#986 Beer', '0334-322448123'),

('AD00010','Ibrahim','Uziar','I#12 Cantt', '0314-91442234');

insert into propertyforrent ( propertyNo, street, city, postcode, type, rooms, rent, ownerNo, staffNo, branchNo)

values ('AD101','I#38 G-13', 'ISB','8092','Room','1','12000','13456','AD01','AD1'),

('AD102','I#78 Mandia', 'ABT','1278','Apartment','2','10000','19283','AD02','AD2'),

('AD103','I#85 Mirpur', 'ISB','3987','Aparment','3','14000','23456','AD03','AD3'),

('AD104','I#12 Cantt', 'ABT','2576','Room','1','8000','87362','AD04','AD4'),

('AD105','I#78 Mandia', 'ISB','9087','Apartment','2','10000','12098','AD05','AD5'),

('AD106','I#55 Kalapul', 'ABT','1265','Apartment','3','15000','90876','AD06','AD6'),

('AD107','I#12 Cantt', 'ABT','3489','Apartment','4','18000','78635','AD07','AD7'),

('AD108','I#86 Supply', 'ISB','1265','House','4','24000','17865','AD08','AD8'),

('AD109','I#38 G-13', 'ISB','9087','House','3','22000','87268','AD09','AD9'),

('AD1010','I#86 Supply', 'ABT','5431','Apartment','2','14000','AD10','SR68','AD10');

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

values ('AD1101','AD1','AD01','1999/12/24'),

(''AD1102','AD2','AD02','1991/11/18'),

(''AD1103','AD3','AD03','1994/04/12'),

(''AD1104','AD4','AD04','1989/01/07'),

(''AD1105','AD5','AD05','1995/07/29'),

(''AD1106','AD6','AD06','2000/08/19'),

(''AD1107','AD7','AD07','1996/11/01'),

(''AD1108','AD8','AD08','1986/04/12'),

(''AD1109','AD9','AD09','1990/10/05'),

(''AD11010','AD10','AD10','1990/05/14');

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

values('AD001','A110','2000/05/14','GOOD'),

('AD002','B110','2001/11/21','GOOD'),

('AD003','A111','2001/04/04','GOOD'),

('AD004','C065','2000/01/01','GOOD'),

('AD005','D124','2004/06/19','GOOD'),

('AD006','G116','1999/08/02','GOOD'),

('AD007','A140','2005/07/09','GOOD'),

('AD008','H180','2000/02/26','GOOD'),

('AD009','A230','1997/10/12','GOOD'),

('AD0010','B210','2003/12/24','GOOD');

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

Reviewed by:

Muhammad Adil Mehmood (SP19-BCS-014)

Comments:

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

Problems:

No problem at all

Rating: 1 – 10

10

## SYED HUZAIFA ABID (SP19-BCS-025)

use dreamhome;

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

VALUES

('C001','I#38 G-13', 'ISB','8092'),

('C002', 'I#78 Supply', 'ABT', '1278'),

('C003', 'I#79 I-10/2', 'ISB', '3987'),

('C004','I#78 Mandia', 'ABT', '2576'),

('C005','I#85 Mirpur', 'ABT', '9087'),

('C006','I#86 Supply', 'ISB', '1265'),

('C007','I#895 Cantt', 'ABT', '3489'),

('C008','I#55 Kalapul', 'ABT', '9871'),

('C009','I#986 Beer', 'HAR', '9087'),

('C010','I#12 Cantt', 'HAV', '5431');

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

values (' SG5', 'Mary', 'Howe', 'Assistant', 'F', '1988/08/23', 20000, 'C002'),

(' SL21', 'David', 'Ford', 'Assistant', 'M','1987/11/9', 100000, 'C003'),

('SG37', 'Anna', 'Bleech', 'Supervisor', 'F','1986/12/8', 90000, 'C003'),

('SA9', 'Susa', 'Brand', 'Receptionist', 'F', '1989/5/9', 120000, 'C003'),

('SG14', 'Joh', 'White', 'Manager', 'M', '1992/2/12', 100000, 'C004'),

('SL41', 'Julie', 'Lee', 'Assistant', 'F', '1990/8/3', 50000, 'C002'),

(' SR68', 'Akbar', 'Shoaib', 'Assistant Manager', 'M', '1996/9/8', 70000, 'C005'),

('SK32', 'Mahrukh', 'Khan', 'Customer Service', 'F', '1994/9/8', 60000, 'C010'),

('SB83', 'Ali', 'Hassan', 'Receptionist', 'M', '1991/4/6', 40000, 'C009'),

(' SP98', 'Hamid', 'Qazi', 'Security Guard', 'M', '1982/9/12', 10000, 'C007');

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

values ('1', 'Hamza', 'Muhstaq', '0341-3487431', 'Apartment', '16000'),

('2', 'Hamza', 'Abid', '0341-3412312', 'Apartment', '18000'),

('3', 'Imad', 'Ahmad', '0347-2346553', 'House', '24000'),

('4', 'Adil', 'Mehmood', '0341-3123565', 'Apartment', '15000'),

('5', 'Zullkif', 'Rehman', '0320-3983493', 'House', '30000'),

('6', 'Huzaifa', 'Abid', '0312-9817818', 'Room', '12000'),

('7', 'Haseeb', 'Khan', '0300-9182713', 'Room', '14000'),

('8', 'Sharjeel', 'Khan', '0344-3912399', 'House', '22000'),

('9', 'Ahmed', 'Shah', '0340-1908761', 'Apartment', '20000'),

('10', 'Hamza', 'Javed', '0331-7096413', 'House', '24000');

insert into privateowner (ownerNo, fName, lName, address, telNO)

values('13456','Huzaifa','Abid','G-13', '0331-1006543'),

('19283','Hamza','Abid', 'I#78 Supply', '0332-9123768'),

('23456','Adeel','Khan', 'I#79 I-10/2', '0330-9786523'),

('87362','Zeeshan','Saleem','I#78 Mandia', '0336-1238789'),

('12098','Asif','Khan','I#85 Supply', '0344-1237686'),

('90876','Shan','Ali','I#86 Supply', '0324-2214598'),

('78635','Hanzala','Tahir','I#895 Cantt', '0314-9887672'),

('17865','Ahmed','Hassan','I#55 Kalapul', '0304-9991231'),

('87268','Zain','Asim','I#986 Beer', '0334-3228123'),

('12876','Ibrahim','Saqib','I#12 Cantt', '0314-9122234');

insert into propertyforrent ( propertyNo, street, city, postcode, type, rooms, rent, ownerNo, staffNo, branchNo)

values ('A110','I#38 G-13', 'ISB','8092','Room','1','12000','13456','SA9','C001'),

('B110','I#78 Mandia', 'ABT','1278','Apartment','2','10000','19283','SG14','C002'),

('A111','I#85 Mirpur', 'ISB','3987','Aparment','3','14000','23456','SG37','C003'),

('C065','I#12 Cantt', 'ABT','2576','Room','1','8000','87362','SG5','C004'),

('D124','I#78 Mandia', 'ISB','9087','Apartment','2','10000','12098','SL21','C005'),

('G116','I#55 Kalapul', 'ABT','1265','Apartment','3','15000','90876','SL41','C006'),

('A140','I#12 Cantt', 'ABT','3489','Apartment','4','18000','78635','SP98','C007'),

('H180','I#86 Supply', 'ISB','1265','House','4','24000','17865','SK32','C008'),

('A230','I#38 G-13', 'ISB','9087','House','3','22000','87268','SB83','C009'),

('H210','I#86 Supply', 'ABT','5431','Apartment','2','14000','12876','SR68','C010');

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

values ('1','C001','SG14','1999/12/24'),

('2','C002','SA9','1991/11/18'),

('3','C003','SG37','1994/04/12'),

('4','C004','SG5','1989/01/07'),

('5','C005','SL21','1995/07/29'),

('6','C006','SL41','2000/08/19'),

('7','C007','SP28','1996/11/01'),

('8','C008','SK32','1986/04/12'),

('9','C009','SB83','1990/10/05'),

('10','C010','SR68','1990/05/14');

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

values('1','A110','2000/05/14','GOOD'),

('2','B110','2001/11/21','GOOD'),

('3','A111','2001/04/04','GOOD'),

('4','C065','2000/01/01','GOOD'),

('5','D124','2004/06/19','GOOD'),

('6','G116','1999/08/02','GOOD'),

('7','A140','2005/07/09','GOOD'),

('8','H180','2000/02/26','GOOD'),

('9','A230','1997/10/12','GOOD'),

('10','B210','2003/12/24','GOOD');

Reviewed by:.

Comments:

Problems:

Rating: 1 – 10

## ZULKIFIL REHMAN (SP19-BCS-027)

use dreamhome;

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

VALUES

('C001','I#38 G-13', 'ISB','8092'),

('C002', 'I#78 Supply', 'ABT', '1278'),

('C003', 'I#79 I-10/2', 'ISB', '3987'),

('C004','I#78 Mandia', 'ABT', '2576'),

('C005','I#85 Mirpur', 'ABT', '9087'),

('C006','I#86 Supply', 'ISB', '1265'),

('C007','I#895 Cantt', 'ABT', '3489'),

('C008','I#55 Kalapul', 'ABT', '9871'),

('C009','I#986 Beer', 'HAR', '9087'),

('C010','I#12 Cantt', 'HAV', '5431');

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

values (' SG5', 'Mary', 'Howe', 'Assistant', 'F', '1988/08/23', 20000, 'C002'),

(' SL21', 'David', 'Ford', 'Assistant', 'M','1987/11/9', 100000, 'C003'),

('SG37', 'Anna', 'Bleech', 'Supervisor', 'F','1986/12/8', 90000, 'C003'),

('SA9', 'Susa', 'Brand', 'Receptionist', 'F', '1989/5/9', 120000, 'C003'),

('SG14', 'Joh', 'White', 'Manager', 'M', '1992/2/12', 100000, 'C004'),

('SL41', 'Julie', 'Lee', 'Assistant', 'F', '1990/8/3', 50000, 'C002'),

(' SR68', 'Akbar', 'Shoaib', 'Assistant Manager', 'M', '1996/9/8', 70000, 'C005'),

('SK32', 'Mahrukh', 'Khan', 'Customer Service', 'F', '1994/9/8', 60000, 'C010'),

('SB83', 'Ali', 'Hassan', 'Receptionist', 'M', '1991/4/6', 40000, 'C009'),

(' SP98', 'Hamid', 'Qazi', 'Security Guard', 'M', '1982/9/12', 10000, 'C007');

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

values ('1', 'Hamza', 'Muhstaq', '0341-3487431', 'Apartment', '16000'),

('2', 'Hamza', 'Abid', '0341-3412312', 'Apartment', '18000'),

('3', 'Imad', 'Ahmad', '0347-2346553', 'House', '24000'),

('4', 'Adil', 'Mehmood', '0341-3123565', 'Apartment', '15000'),

('5', 'Zullkif', 'Rehman', '0320-3983493', 'House', '30000'),

('6', 'Huzaifa', 'Abid', '0312-9817818', 'Room', '12000'),

('7', 'Haseeb', 'Khan', '0300-9182713', 'Room', '14000'),

('8', 'Sharjeel', 'Khan', '0344-3912399', 'House', '22000'),

('9', 'Ahmed', 'Shah', '0340-1908761', 'Apartment', '20000'),

('10', 'Hamza', 'Javed', '0331-7096413', 'House', '24000');

insert into privateowner (ownerNo, fName, lName, address, telNO)

values('13456','Huzaifa','Abid','G-13', '0331-1006543'),

('19283','Hamza','Abid', 'I#78 Supply', '0332-9123768'),

('23456','Adeel','Khan', 'I#79 I-10/2', '0330-9786523'),

('87362','Zeeshan','Saleem','I#78 Mandia', '0336-1238789'),

('12098','Asif','Khan','I#85 Supply', '0344-1237686'),

('90876','Shan','Ali','I#86 Supply', '0324-2214598'),

('78635','Hanzala','Tahir','I#895 Cantt', '0314-9887672'),

('17865','Ahmed','Hassan','I#55 Kalapul', '0304-9991231'),

('87268','Zain','Asim','I#986 Beer', '0334-3228123'),

('12876','Ibrahim','Saqib','I#12 Cantt', '0314-9122234');

insert into propertyforrent ( propertyNo, street, city, postcode, type, rooms, rent, ownerNo, staffNo, branchNo)

values ('A110','I#38 G-13', 'ISB','8092','Room','1','12000','13456','SA9','C001'),

('B110','I#78 Mandia', 'ABT','1278','Apartment','2','10000','19283','SG14','C002'),

('A111','I#85 Mirpur', 'ISB','3987','Aparment','3','14000','23456','SG37','C003'),

('C065','I#12 Cantt', 'ABT','2576','Room','1','8000','87362','SG5','C004'),

('D124','I#78 Mandia', 'ISB','9087','Apartment','2','10000','12098','SL21','C005'),

('G116','I#55 Kalapul', 'ABT','1265','Apartment','3','15000','90876','SL41','C006'),

('A140','I#12 Cantt', 'ABT','3489','Apartment','4','18000','78635','SP98','C007'),

('H180','I#86 Supply', 'ISB','1265','House','4','24000','17865','SK32','C008'),

('A230','I#38 G-13', 'ISB','9087','House','3','22000','87268','SB83','C009'),

('H210','I#86 Supply', 'ABT','5431','Apartment','2','14000','12876','SR68','C010');

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

values ('1','C001','SG14','1999/12/24'),

('2','C002','SA9','1991/11/18'),

('3','C003','SG37','1994/04/12'),

('4','C004','SG5','1989/01/07'),

('5','C005','SL21','1995/07/29'),

('6','C006','SL41','2000/08/19'),

('7','C007','SP28','1996/11/01'),

('8','C008','SK32','1986/04/12'),

('9','C009','SB83','1990/10/05'),

('10','C010','SR68','1990/05/14');

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

values('1','A110','2000/05/14','GOOD'),

('2','B110','2001/11/21','GOOD'),

('3','A111','2001/04/04','GOOD'),

('4','C065','2000/01/01','GOOD'),

('5','D124','2004/06/19','GOOD'),

('6','G116','1999/08/02','GOOD'),

('7','A140','2005/07/09','GOOD'),

('8','H180','2000/02/26','GOOD'),

('9','A230','1997/10/12','GOOD'),

('10','B210','2003/12/24','GOOD');

Reviewed by:.

Comments:

Problems:

Rating: 1 – 10

## ADNAN KHURSHID (SP19-BCS-029)

create database DreamHome

use DreamHome

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);

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));

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)

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)

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));

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);

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 Branch (branchNo, street, city, postcode)

VALUES

('C1','3rd Street Satellite Town', 'SGD','40100'),

('C2', '1st Block', 'FSD', '38000'),

('C3', '4th Street Urdu bazar', 'SGD', '40100'),

('C4','5th Block', 'FSD', '38000'),

('C5','3rd Street Urdu bazar', 'SGD', '40100'),

('C6','Sixth Road', 'RWP', '43600'),

('C7','Saadaar', 'RWP', '43600'),

('C8','Deput', 'RWP', '43600'),

('C9','3rd street University Road', 'SGD', '40100'),

('C10','2nd street Queens Chock', 'SGD', '40100');

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

VALUES ('CD01', 'Adil', 'Mehmood', 'Assistant', 'M', CAST(0x0000641000000000 AS DateTime), CAST(9000 AS Decimal(18, 0)), 'C1'),

('CD02', 'Abdullah', 'Javed', 'Manager', 'M',CAST(0x0000531200000000 AS DateTime), CAST(18000 AS Decimal(18,0)), 'C2'),

('CD03', 'Hamza', 'Mushtaq', 'Assistant', 'M',CAST(0x000056D400000000 AS DateTime), CAST(12000 AS Decimal(18,0)), 'C3'),

('CD04', 'Huzaifa', 'Abid', 'Assistant', 'M', CAST(0x0000C85800000000 AS DateTime), CAST(24000 AS Decimal(18,0)), 'C4'),

('CD05', 'Ayesha', 'Latif', 'Assistant', 'F', CAST(0x0000CFF200000000 AS DateTime), CAST(30000 AS Decimal(18,0)), 'C5'),

('CD06', 'Komal', 'Mushtaq', 'Assistant', 'F', CAST(0x00005D6000000000 AS DateTime), CAST(9000 AS Decimal(18, 0)), 'C6'),

('CD07', 'Rafiya', 'Siddique', 'Assistant', 'F', CAST(0x00005D6000000000 AS DateTime), CAST(9000 AS Decimal(18, 0)), 'C7'),

('CD08', 'Alina', 'Mukhtiar', 'Assistant', 'F', CAST(0x00005D6000000000 AS DateTime), CAST(9000 AS Decimal(18, 0)), 'C8'),

('CD09', 'Kamran', 'Ali', 'Supervisor', 'M', CAST(0x00005D6000000000 AS DateTime), CAST(9000 AS Decimal(18, 0)), 'C9'),

('CD010', 'Khurram', 'Shehzad', 'Supervisor', 'M', CAST(0x00005D6000000000 AS DateTime), CAST(9000 AS Decimal(18, 0)), 'C10');

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

values ('CD001', 'Muhammad', 'Hamza', '0341-3487431', 'Apartment', '160000'),

('CD002', 'Muhammad', 'Ali', '0341-3412312', 'Apartment', '180000'),

('CD003', 'Asim', 'Azhar', '0347-2346553', 'House', '24000'),

('CD004', 'Adil', 'Mehmood', '0341-3123565', 'Apartment', '5000'),

('CD005', 'Atif', 'Aslam', '0320-3983493', 'House', '3000'),

('CD006', 'Touqeef', 'Rehman', '0312-9817818', 'Room', '2000'),

('CD007', 'Haseeb', 'Khan', '0300-9182713', 'Room', '1400'),

('CD008', 'Sharjeel', 'Khan', '0344-3912399', 'House', '2000'),

('CD009', 'Ahmed', 'Shah', '0340-1908761', 'Apartment', '20000'),

('CD0010', 'Hamza', 'Javed', '0331-7096413', 'House', '2000');

insert into privateowner (ownerNo, fName, lName, address, telNO)

values('CD0001','Huzaifa','Abid','G-13', '0331-132326543'),

('CD0002','Hamza','Khalid', 'I#78 Supply', '0332-913268'),

('CD0003','Adeel','Waraich', 'I#79 I-10/2', '0330-978323223'),

('CD0004','Zeeshan','Akhtar','I#78 Mandia', '0336-248789'),

('CD0005','Asif','Niazi','I#85 Supply', '0344-12373466'),

('CD0006','Shan','Shahd','I#86 Supply', '0324-22145538'),

('CD0007','Hanzala','Maqsood','I#895 Cantt', '0314-7787672'),

('CD0008','Ahmed','Ali','I#55 Kalapul', '0304-5591231'),

('CD0009','Zain','Farooq','I#986 Beer', '0334-322448123'),

('CD00010','Ibrahim','Uziar','I#12 Cantt', '0314-91442234');

insert into propertyforrent ( propertyNo, street, city, postcode, type, rooms, rent, ownerNo, staffNo, branchNo)

values ('CD101','I#38 G-13', 'ISB','8092','Room','1','12000','CD0001','CD01','C1'),

('CD102','I#78 Mandia', 'ABT','1278','Apartment','2','10000','CD0002','CD02','C2'),

('CD103','I#85 Mirpur', 'ISB','3987','Aparment','3','14000','CD0003','CD03','C3'),

('CD104','I#12 Cantt', 'ABT','2576','Room','1','8000','CD0004','CD04','C4'),

('CD105','I#78 Mandia', 'ISB','9087','Apartment','2','10000','CD0005','CD05','C5'),

('CD106','I#55 Kalapul', 'ABT','1265','Apartment','3','15000','CD0006','CD06','C6'),

('CD107','I#12 Cantt', 'ABT','3489','Apartment','4','18000','CD0007','CD07','C7'),

('CD108','I#86 Supply', 'ISB','1265','House','4','24000','CD0008','CD08','C8'),

('CD109','I#38 G-13', 'ISB','9087','House','3','22000','CD0009','CD09','C9'),

('CD1010','I#86 Supply', 'ABT','5431','Apartment','2','334010','CD00010','CD010','C10');

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

values ('CD001','C1','CD01','1999/12/24'),

('CD002','C2','CD02','1991/11/18'),

('CD003','C3','CD03','1994/04/12'),

('CD004','C4','CD04','1989/01/07'),

('CD005','C5','CD05','1995/07/29'),

('CD006','C6','CD06','2000/08/19'),

('CD007','C7','CD07','1996/11/01'),

('CD008','C8','CD08','1986/04/12'),

('CD009','C9','CD09','1990/10/05'),

('CD0010','C10','CD010','1990/05/14');

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

values('CD001','CD101','2000/05/14','GOOD'),

('CD002','CD102','2001/11/21','GOOD'),

('CD003','CD103','2001/04/04','GOOD'),

('CD004','CD104','2000/01/01','GOOD'),

('CD005','CD105','2004/06/19','GOOD'),

('CD006','CD106','1999/08/02','GOOD'),

('CD007','CD107','2005/07/09','GOOD'),

('CD008','CD108','2000/02/26','GOOD'),

('CD009','CD109','1997/10/12','GOOD'),

('CD0010','CD1010','2003/12/24','GOOD');

Reviewed by:

Badar

Comments:

Nice work

Problems:

No

Rating: 1 – 10

10

## AYESHA LATIF (SP19-BCS-030)

Use dream home

Solution:

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

Values(' Sh4' 'saba','Howe' 'Assistant','F','1999/08/23',30000,'f002'),

('Sk21','julie', Ford','Assistant' 'M','1985/11/9',50000,'f003'),

('Sh37','Anna', 'Bleech', 'Supervisor','F','1987/12/8',80000,'f003'),

('Sh89','Sana','Brand' 'Receptionist','F','2000/5/9',100000,'f003'),

('Sk14', 'Jon', 'White', 'Manager', 'M', '1993/2/12', 300000, 'f004'),

('Sk41','Julie','Lee','Assistant', 'F','1988/3/12' 50000 'f002'),

('Sl68','Arham','Shoaib', 'Assistant Manager','M' '1996/9/8',70000,'f005'),

('SK92','Mushk','Khan','Customer Service','F','1994/9/8',60000,'f010'),

('Sh83', 'Ali', 'Hassan', 'Receptionist', 'M', '1991/4/6', 40000, 'f009'),

('So88', 'Hira', 'Qazi', 'Security Guard''M','1982/9/12',10000,'f007');

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

values ('11', 'kinza', 'Muhstaq','0341-3487431','house','16200'),

('12', 'Hina','saad', '0341-3443312','Apartment','12000'),

('13', 'Arham', 'latif', '0347-5646553', 'House','28000'),

('14', 'Ali', '', '0341-3123556', 'Apartment','1900'),

('15', 'Zoya', 'nawaz', '0324-3983493','house','20000'),

('16', 'Hira', 'mehmood', '0312-9854818', 'Room','14000'),

('17', 'Haseeb', 'muhshtaq', '0300-9452713', 'house','15000'),

('18', 'Sharjeel', 'Khan', '0344-3954399', 'House', '27000'),

('19', 'Ahmed', 'Shah', '0340-1905661', 'Apartment', '25000'),

('20', 'komal', 'Javed', '0331-7056413', 'House', '26000');

insert into privateowner (ownerNo, fName, lName, address, telNO)

values ('13346','ayesha','latif','f-12', '0331-1436543'),

('20283','Hafsa','Abid', 'I#78 cantt', '0332-91234568'),

('25456','Adil','Khan', 'I#79 cantt', '0330-9756565'),

('56362','Zanib','saqib','k#78 Mughal pura', '0336-12789'),

('11298','Asif','Kamal', 'k#30 h-1', '0344-1237686'),

('56876','Sara','Ali','L-20 maddar', '0324-2214598'),

('43635','Hina','mujahid','k#895 Cantt', '0314-98887672'),

('15665','Ahmed','Hassan','k#55 Kalapul', '0304-9991231'),

('85468','zoya','abid','k#986 Beer', '0334-3228123'),

('17876','ayesha','Saqib','k#12 Cantt', '0314-9122234')

insert into propertyforrent ( propertyNo, street, city, postcode, type, rooms, rent, ownerNo, staffNo, branchNo)

values ('A1230','h#38 G-13', 'LHR','8092','Room','1','12000','13456','SA9','G001'),

('c110','h#78 Mandia', 'ABT','1278','Apartment','4','10000','19283','SG14','G002'),

('c411','h#85 ', 'ISB','3987','Aparment','3','14000','23456','SG37','G003'),

('f4365','h#12 Cantt', 'KAR','2576','Room','8','8000','87362','SGF5','G004'),

('Df44','k#78 Mandia', 'ABT','9087','Apartment','2','1000','12098','SLD21','G005'),

('f516','k#55 Kalapul', 'LHR','1265','Apartment','3','1500','90876','SLS41','G006'),

('f430','f#12 Cantt', 'SKP','3489','Apartment','4','1800','78635','SP9S8','G007'),

('H30','k#86 khan pur', 'SKP','1265','House','4','24000','17865','SKW32','C008'),

('u730','If#38 G-12', 'LHR','9087','House','3','22000','87268','SB8W3','H009'),

('d540','k#86 cantt', 'LHR','5431','Apartment','2','14000','12Q876','SR6W8','J010');

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

values('11','F110','2002/03/16','Good')

('12','LB00','2010/11/21','Good'),

('13','KG00','2003/04/05','Good'),

('14','HG04','2004/01/03','Good'),

('15','D012','2006/05/19','EXCELLENT'),

('16','GSW43','1999/03/04','V.Good'),

('17','Q2340','2001/02/04','Good'),

('18','J280','2007/02/23','Good'),

('19','C3430','1965/11/12','V.Good'),

('20','K710','2003/12/24','Good');

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

values ('11','f002','Sh4','1998/11/20'),

('12','f003','Sk21','1992/10/12'),

('13','f003','Sh37','1989/04/15'),

('14','f003','Sh89','1991/11/17'),

('15','f004','Sk41','1986/10/29'),

('16','f002','sl68','2005/09/29'),

('17','f005','SK92','1995/10/05'),

('18','f010','Sh83','1987/03/22'),

('19','f007','So88','1990/10/05'),

('20','f006','so34','1990/05/14');

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

# LAB 7

## Common Solution

Print the list of postcode without any repetition

Solution:

Select distinct(postcode) from Branch;

Print all fName from Staff without repetition

Solution:

SELECT distinct(fName) FROM Staff;

List all staff with renaming all its columns in results

Solution:

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.

Solution:

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.

Solution:

SELECT \* FROM Staff WHERE salary > 10000;

List all managers and supervisors.

Solution:

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

## ABDULLAH JAVED (SP19-BCS-002)

select distinct(postcode) from branch;

select distinct(fName) from staff;

select staffNo as ID,fName as FirstName, lName as LastName, position as Position, sex as Gender, DOB as DateofBirth, salary as Salary, branchNO as BranchNumber from staff;

select clientNo as ClientNumber, fName as FirstName, lName as LastName, telNo as TelliPhone, prefType as Preference, maxRent as MaximumRent from client;

select \* from staff where salary > 13000;

select \* from staff where position = 'DIRECTOR' or position = 'MANAGER';

Reviewed by:

Muhammad Adil Mehmood (SP19-BCS-014)

Comments:

Working

Problems:

No problem at all

Rating: 1 – 10

10

## HAMZA MUSHTAQ (SP19-BCS-007)

select distinct(postcode) from branch;

select distinct(fName) from staff;

select staffNo as ID,fName as FirstName, lName as LastName, position as Position, sex as Gender, DOB as DateofBirth, salary as Salary, branchNO as BranchNumber from staff;

select clientNo as ClientNumber, fName as FirstName, lName as LastName, telNo as TelliPhone, prefType as Preference, maxRent as MaximumRent from client;

select \* from staff where salary > 7630;

select \* from staff where position = 'manager' or position = 'manager';

Reviewed by:.

Comments:

Problems:

Rating: 1 – 10

## MUHAMMAD ADIL MEHMOOD (SP19-BCS-014)

Print the list of postcode without any repetition

Solution:

Select distinct(postcode) from Branch;

Print all fName from Staff without repetition

Solution:

SELECT distinct(fName) FROM Staff;

List all staff with renaming all its columns in results

Solution:

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.

Solution:

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.

Solution:

SELECT \* FROM Staff WHERE salary > 10000;

List all managers and supervisors.

Solution:

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

## SAIF UR REHMAN (SP19-BCS-021)

Print the list of postcode without any repetition

Solution:

Select distinct(postcode) from Branch;

Print all fName from Staff without repetition

Solution:

SELECT distinct(fName) FROM Staff;

List all staff with renaming all its columns in results

Solution:

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.

Solution:

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.

Solution:

SELECT \* FROM Staff WHERE salary > 10000;

List all managers and supervisors.

Solution:

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

Reviewed by:

Muhammad Adil Mehmood (SP19-BCS-014)

Comments:

Working

Problems:

No problem at all

Rating: 1 – 10

10

## SYED HUZAIFA ABID (SP19-BCS-025)

select distinct(postcode) from branch;

select distinct(fName) from staff;

select staffNo as ID,fName as FirstName, lName as LastName, position as Position, sex as Gender, DOB as DateofBirth, salary as Salary, branchNO as BranchNumber from staff;

select clientNo as ClientNumber, fName as FirstName, lName as LastName, telNo as TelliPhone, prefType as Preference, maxRent as MaximumRent from client;

select \* from staff where salary > 20000;

select \* from staff where position = 'manager' or position = 'supervisor';

Reviewed by:.

Comments:

Problems:

Rating: 1 – 10

## ZULKIFIL REHMAN (SP19-BCS-027)

 select distinct(postcode) from branch;

select distinct(fName) from staff;

select staffNo as ID,fName as FirstName, lName as LastName, position as Position, sex as Gender, DOB as DateofBirth, salary as Salary, branchNO as BranchNumber from staff;

select clientNo as ClientNumber, fName as FirstName, lName as LastName, telNo as TelliPhone, prefType as Preference, maxRent as MaximumRent from client;

select \* from staff where salary > 20000;

select \* from staff where position = 'manager' or position = 'supervisor';

Reviewed by:.

Badar

Comments:

Great job

Problems

No:

Rating: 1 – 10

10

## ADNAN KHURSHID (SP19-BCS-029)

 Print the list of postcode without any repetition

Solution:

Select distinct(postcode) from Branch;

Print all fName from Staff without repetition

Solution:

SELECT distinct(fName) FROM Staff;

List all staff with renaming all its columns in results

Solution:

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.

Solution:

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.

Solution:

SELECT \* FROM Staff WHERE salary > 10000;

List all managers and supervisors.

Solution:

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

Reviewed by:.

Badar

Comments:

Great job

Problems

No:

Rating: 1 – 10

10

## AYESHA LATIF (SP19-BCS-030)

1.Print the list of postcode without any repetition

Solution:

Select distinct(postcod) from Branch;

2.Print all fName from Staff without repetition

Solution:

SELECT distinct(fName) FROM Staff;

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

Solution:

Select staffNo As StaffNo, fName As FirstName, lName As LastName, position As Position, sex as Gender, salary As income, branchNo As BranchNO from Staff;

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

Solution:

Select clientNo As clientId, fName As MYfirstName, lName As MYlastName, telNo As phonenumber, prefType As precedenceType, maxRent As MYtotalRent from Client;

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

Solution:

SELECT salary FROM Staff WHERE salary >10000;

6.List all managers and supervisors

Solution:

SELECT position FROM Staff WHERE position IN ('Manager', 'Supervisor');

Reviewed by:

Khanzada Haider (sp19-bcs-013)

Comments:

Working

Problems:

No problem at all

Rating: 1 – 10

10

# LAB 8

## Common Solution

Perform all the examples in this lab.

Solution:

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

Solution:

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

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

SELECT fName, salary FROM Staff ORDER BY lName DESC;

Grouping clauses

Solution:

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

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

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

Aggregateclauses

Solution:

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

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

SELECT clientNo, comment FROM Viewing WHERE viewDate BETWEEN '1-May-00' AND '31-May-04';

## Abdullah Javed (SP19-BCS-002)

SELECT staffNo, fName, lName, salary FROM staff ORDER BY Staffno DESC;

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

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

SELECT staffNo, COUNT(salary) FROM staffname;

SELECT COUNT(\*) AS myCount FROM propertyforrent WHERE rent <=12000;

SELECT COUNT(DISTINCT propertyNo) AS myCount FROM Viewing WHERE viewDate BETWEEN '1998-12-16' AND '2004-12-23';

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

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

SELECT staffNo, COUNT(salary) FROM staff;

SELECT staffNo, fName, lName, position, salary FROM staff WHERE (SELECT AVG(salary) FROM staff) < salary;

SELECT staffNo, fName, lName, position, salary FROM staff WHERE salary > SOME (SELECT salary FROM staff WHERE branchNo = 'AB02');

SELECT staffNo, fName, lName, position, salary FROM staff WHERE salary > ALL (SELECT salary FROM staff WHERE branchNo = 'AB01');

-- Sorting

SELECT staffNo, fName, lName, salary FROM staff ORDER BY salary ASC;

SELECT salary FROM staff ORDER BY salary DESC;

SELECT salary FROM staff ORDER BY salary ASC;

-- Grouping

SELECT staffNo, fName,lName, sex, salary FROM Staff WHERE position = 'Receptionist' AND salary < 10000;

SELECT fName,lName,branchNo FROM Staff WHERE sex = 'F' AND position = 'Manager';

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

-- Aggregate

SELECT COUNT(DISTINCT(propertyNo)) AS myCount FROM Viewing WHERE viewDate BETWEEN '2000-01-012' AND '2005-05-20';

SELECT COUNT(salary) AS myCount FROM staff WHERE salary BETWEEN '12000' AND '80000';

SELECT clientNo, propertyNo AS ClientID, PropertyNo FROM Viewing WHERE viewDate BETWEEN '2000-02-16' AND '2005-12-16';

Reviewed by:.

Comments:

Problems:

Rating: 1 – 10

## Hamza Mushtaq (SP19-BCS-007)

-- Few examples for better understanding the concepts of sorting, grouping and aggregating.

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 staffNo, COUNT(salary) FROM staff;

SELECT COUNT(\*) AS myCount FROM propertyforrent WHERE rent <=55000;

SELECT COUNT(DISTINCT propertyNo) AS myCount FROM Viewing WHERE viewDate BETWEEN '2001-03-03' AND '2012-02-02';

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;

SELECT staffNo, fName, lName, position, salary FROM staff WHERE (SELECT AVG(salary) FROM staff) > salary;

SELECT staffNo, fName, lName, position, salary FROM staff WHERE salary > SOME (SELECT salary FROM staff WHERE branchNo = 'C003');

SELECT staffNo, fName, lName, position, salary FROM staff WHERE salary > ALL (SELECT salary FROM staff WHERE branchNo = 'C003');

#### -- Aggregate

SELECT COUNT(DISTINCT(propertyNo)) AS myCount FROM Viewing WHERE viewDate BETWEEN '2003-05-02' AND '2004-03-19';

SELECT COUNT(salary) AS myCount FROM staff WHERE salary BETWEEN '12000' AND '55000';

SELECT clientNo, propertyNo AS ClientID, PropertyNo FROM Viewing WHERE viewDate BETWEEN '1997-04-04' AND '2004-06-19';

#### -- Grouping

SELECT staffNo, fName,lName, sex, salary FROM Staff WHERE position = 'Receptionist' AND salary < 32000;

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

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

#### -- Sorting

SELECT staffNo, fName, lName, salary FROM staff ORDER BY salary ASC;

SELECT salary FROM staff ORDER BY salary DESC;

SELECT salary FROM staff ORDER BY salary ASC;

Reviewed by:.

Comments:

Problems:

Rating: 1 – 10

## Muhammad Adil Mehmood (SP19-BCS-014)

Perform all the examples in this lab.

Solution:

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

Solution:

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

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

SELECT fName, salary FROM Staff ORDER BY lName DESC;

Grouping clauses

Solution:

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

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

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

Aggregateclauses

Solution:

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

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

SELECT clientNo, comment FROM Viewing WHERE viewDate BETWEEN '1-May-00' AND '31-May-04';

Reviewed by:.

Comments:

Problems:

Rating: 1 – 10

## Saif Ur Rehman (SP19-BCS-021)

Perform all the examples in this lab.

Solution:

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

Solution:

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

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

SELECT fName, salary FROM Staff ORDER BY lName DESC;

Grouping clauses

Solution:

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

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

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

Aggregateclauses

Solution:

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

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

SELECT clientNo, comment FROM Viewing WHERE viewDate BETWEEN '1-May-00' AND '31-May-04';

Reviewed by:

Muhammad Adil Mehmood (SP19-BCS-014)

Comments:

Working

Problems:

No problem at all

Rating: 1 – 10

10

## Syed Huzaifa Abid (SP19-BCS-025)

-- 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 staffNo, COUNT(salary) FROM staff;

SELECT COUNT(\*) AS myCount FROM propertyforrent WHERE rent <=10000;

SELECT COUNT(DISTINCT propertyNo) AS myCount FROM Viewing WHERE viewDate BETWEEN '1997-10-12' AND '2003-12-24';

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;

SELECT staffNo, fName, lName, position, salary FROM staff WHERE (SELECT AVG(salary) FROM staff) < salary;

SELECT staffNo, fName, lName, position, salary FROM staff WHERE salary > SOME (SELECT salary FROM staff WHERE branchNo = 'C003');

SELECT staffNo, fName, lName, position, salary FROM staff WHERE salary > ALL (SELECT salary FROM staff WHERE branchNo = 'C003');

-- Sorting

SELECT staffNo, fName, lName, salary FROM staff ORDER BY salary ASC;

SELECT salary FROM staff ORDER BY salary DESC;

SELECT salary FROM staff ORDER BY salary ASC;

-- Grouping

SELECT staffNo, fName,lName, sex, salary FROM Staff WHERE position = 'Receptionist' AND salary < 40000;

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

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

-- Aggregate

SELECT COUNT(DISTINCT(propertyNo)) AS myCount FROM Viewing WHERE viewDate BETWEEN '1999-08-02' AND '2004-06-19';

SELECT COUNT(salary) AS myCount FROM staff WHERE salary BETWEEN '20000' AND '60000';

SELECT clientNo, propertyNo AS ClientID, PropertyNo FROM Viewing WHERE viewDate BETWEEN '2001-04-04' AND '2004-06-19';

Reviewed by:.

Comments:

Problems:

Rating: 1 – 10

## Zulkifil Rehman (SP19-BCS-027)

-- 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 staffNo, COUNT(salary) FROM staff;

SELECT COUNT(\*) AS myCount FROM propertyforrent WHERE rent <=10000;

SELECT COUNT(DISTINCT propertyNo) AS myCount FROM Viewing WHERE viewDate BETWEEN '1997-10-12' AND '2003-12-24';

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;

SELECT staffNo, fName, lName, position, salary FROM staff WHERE (SELECT AVG(salary) FROM staff) < salary;

SELECT staffNo, fName, lName, position, salary FROM staff WHERE salary > SOME (SELECT salary FROM staff WHERE branchNo = 'C003');

SELECT staffNo, fName, lName, position, salary FROM staff WHERE salary > ALL (SELECT salary FROM staff WHERE branchNo = 'C003');

-- Sorting

SELECT staffNo, fName, lName, salary FROM staff ORDER BY salary ASC;

SELECT salary FROM staff ORDER BY salary DESC;

SELECT salary FROM staff ORDER BY salary ASC;

-- Grouping

SELECT staffNo, fName,lName, sex, salary FROM Staff WHERE position = 'Receptionist' AND salary < 40000;

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

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

-- Aggregate

SELECT COUNT(DISTINCT(propertyNo)) AS myCount FROM Viewing WHERE viewDate BETWEEN '1999-08-02' AND '2004-06-19';

SELECT COUNT(salary) AS myCount FROM staff WHERE salary BETWEEN '20000' AND '60000';

SELECT clientNo, propertyNo AS ClientID, PropertyNo FROM Viewing WHERE viewDate BETWEEN '2001-04-04' AND '2004-06-19';

Reviewed by:.

Comments:

Problems:

Rating: 1 – 10

## Adnan Khurshid (SP19-BCS-029)

Perform all the examples in this lab.

Solution:

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

Solution:

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

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

SELECT fName, salary FROM Staff ORDER BY lName DESC;

Grouping clauses

Solution:

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

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

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

Aggregateclauses

Solution:

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

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

SELECT clientNo, comment FROM Viewing WHERE viewDate BETWEEN '1-May-00' AND '31-May-04';

Reviewed by:.

Comments:

Problems:

Rating: 1 – 10

## [Ayesha Latif (SP19-BCS-030)](#_Toc558549338)

Perform all the examples in this lab.

Solution

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 '2004-12-2' AND '2005-12-5';

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;

SELECT staffNo, fName, lName, position, salary FROM Staff WHERE salary > SOME (SELECT salary FROM Staff WHERE branchNo = 'f004');

SELECT staffNo, fName, lName, position, salary FROM Staff WHERE salary > ALL (SELECT salary FROM Staff WHERE branchNo = 'f005');

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

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

SELECT fName, salary FROM Staff ORDER BY lName DESC;

Grouping clause

SELECT staffNo, fName, sex, salary FROM Staff WHERE position = 'Assistant' AND salary < 30000;

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

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

Aggregate clauses

SELECT COUNT(DISTINCT(propertyNo)) AS myCount FROM Viewing WHERE viewDate BETWEEN '1999-03-04 ' AND '2004-01-03';

SELECT clientNo, propertyNo AS ClientID, PropertyNo FROM Viewing WHERE viewDate BETWEEN '2006-05-19 ' AND '2007-02-23';

SELECT clientNo, comment FROM Viewing WHERE viewDate BETWEEN '2002-03-16 ' AND '2010-11-21';

Reviewed by:

Khaznada Haider (sp19-bcs-013)

Comments:

This class is pending by sir

Problems:

Pending

Rating: 1 – 10

Pending

# Lab 9

## Common Solution

## Abdullah Javed (SP19-BCS-002)

## Hamza Mushtaq (SP19-BCS-007)

## Muhammad Adil Mehmood (SP19-BCS-014)

## Saif Ur Rehman (SP19-BCS-021)

## Syed Huzaifa Abid (SP19-BCS-025)

## Zulkifil Rehman (SP19-BCS-027)

## Adnan Khurshid (SP19-BCS-029)

## [Ayesha Latif (SP19-BCS-030)](#_Toc558549338)

# Lab 10

## Common Solution

## Abdullah Javed (SP19-BCS-002)

## Hamza Mushtaq (SP19-BCS-007)

## Muhammad Adil Mehmood (SP19-BCS-014)

## Saif Ur Rehman (SP19-BCS-021)

## Syed Huzaifa Abid (SP19-BCS-025)

## Zulkifil Rehman (SP19-BCS-027)

## Adnan Khurshid (SP19-BCS-029)

## [Ayesha Latif (SP19-BCS-030)](#_Toc558549338)

# Lab 11

## Common Solution

use dreamhome;

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

insert into Abc

values ('Hamza', 'Mushtaq'),

('Imad', 'Ahmad'),

('Zulfi', 'Rehman');

-- CONCATINATION

SELECT CONCAT("Hamza ", "Mushtaq ") AS ConcatenatedString;

-- extra string funtions

SELECT LENGTH(Fname) AS LengthOfString from Abc;

select LOCATE("i", "Zulfi");

SELECT upper("Hamza");

SELECT lower("Hamza");

SELECT REPEAT(familyName, 3) from Abc;

SELECT STRCMP("hamza1", "hamza");

SELECT SUBSTR("Hamza", 4) AS ExtractString;

SELECT LEFT("Hamza", 5) AS ExtractString;

SELECT ASCII(FName) FROM Abc;

-- Maths function

SELECT COT(6);

SELECT COS(2);

SELECT LOG(2);

SELECT SQUARE(64);

SELECT COUNT(Fname) AS NumberOfNames FROM Abc;

SELECT AVG(maxRent) AS AveragePrice FROM client;

SELECT MAX(maxRent) AS LargestPrice FROM client;

SELECT MIN(maxRent) AS SmallestPrice FROM client;

SELECT FLOOR(25.75) AS FloorValue;

SELECT CEILING(25.75) AS CeilValue;

## Abdullah Javed (SP19-BCS-002)

create table AAASSS (FNAME varchar(50)NOT NULL, Familyname Varchar NOT NULL);

INSERT INTO AAASSS

VALUES ('ABDULLAH','JAVED'),

('ADIL','MEHMOOD'),

('TALHA','JAWAD')

--CONCATINATION

SELECT CONCAT('ABDULLAH','Javed')

AS Concantenatedstring;

--extra string functions

SELECT LEN ("Familyname") AS

LENGTHOFSTRING FROM AAASSS;

SELECT LEN('ABDULLAH');

SELECT upper('TALHA');

SELECT lower('TALHA');

SELECT REVERSE('HALLUDBA');

SELECT STR('12');

SELECT SUBSTRING('ABDULLAHJAVED', 1, 3) AS ExtractString;

SELECT REPLICATE('TALHA JAWAD ', 5);

SELECT LEFT('TALHA JAWAD', 3) AS ExtractString;

SELECT 'TALHA' + 'JAWAD';

SELECT ASCII('H')

-- Maths function

SELECT COT(90);

SELECT COS(45);

SELECT LOG(4);

SELECT SQUARE(12);

SELECT COUNT('42');

SELECT AVG(MA) AS AveragePrice FROM client;

SELECT MAX(maxRent) AS LargestPrice FROM client;

SELECT MIN(maxRent) AS SmallestPrice FROM client;

SELECT FLOOR(22.05) AS FloorValue;

SELECT CEILING(42.72) AS CeilValue;

## Hamza Mushtaq (SP19-BCS-007)

## Muhammad Adil Mehmood (SP19-BCS-014)

use dreamhome;

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

insert into Abc

values ('Hamza', 'Mushtaq'),

('Imad', 'Ahmad'),

('Zulfi', 'Rehman');

-- CONCATINATION

SELECT CONCAT("Adil ", "Mehmood") AS ConcatenatedString;

-- extra string funtions

SELECT LENGTH(Fname) AS LengthOfString from Abc;

select LOCATE("i", "Adil");

SELECT upper("Hashir");

SELECT lower("Umer");

SELECT REPEAT(familyName, 3) from Abc;

SELECT STRCMP("Huzaifa1", "Huzaifa");

SELECT SUBSTR("Haider", 4) AS ExtractString;

SELECT LEFT("Hamza", 5) AS ExtractString;

SELECT ASCII(FName) FROM Abc;

-- Maths function

SELECT COT(6);

SELECT COS(2);

SELECT LOG(2);

SELECT SQUARE(64);

SELECT COUNT(Fname) AS NumberOfNames FROM Abc;

SELECT AVG(maxRent) AS AveragePrice FROM client;

SELECT MAX(maxRent) AS LargestPrice FROM client;

SELECT MIN(maxRent) AS SmallestPrice FROM client;

SELECT FLOOR(25.75) AS FloorValue;

SELECT CEILING(25.75) AS CeilValue;

## Saif Ur Rehman (SP19-BCS-021)

## Syed Huzaifa Abid (SP19-BCS-025)

use dreamhome;

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

insert into Abc

values ('Hamza', 'Mushtaq'),

('Imad', 'Ahmad'),

('Zulfi', 'Rehman');

-- CONCATINATION

SELECT CONCAT("Hamza ", "Mushtaq ") AS ConcatenatedString;

-- extra string funtions

SELECT LENGTH(Fname) AS LengthOfString from Abc;

select LOCATE("i", "Zulfi");

SELECT upper("Hamza");

SELECT lower("Hamza");

SELECT REPEAT(familyName, 3) from Abc;

SELECT STRCMP("hamza1", "hamza");

SELECT SUBSTR("Hamza", 4) AS ExtractString;

SELECT LEFT("Hamza", 5) AS ExtractString;

SELECT ASCII(FName) FROM Abc;

-- Maths function

SELECT COT(6);

SELECT COS(2);

SELECT LOG(2);

SELECT SQUARE(64);

SELECT COUNT(Fname) AS NumberOfNames FROM Abc;

SELECT AVG(maxRent) AS AveragePrice FROM client;

SELECT MAX(maxRent) AS LargestPrice FROM client;

SELECT MIN(maxRent) AS SmallestPrice FROM client;

SELECT FLOOR(25.75) AS FloorValue;

SELECT CEILING(25.75) AS CeilValue;

## Zulkifil Rehman (SP19-BCS-027)

## Adnan Khurshid (SP19-BCS-029)

## [Ayesha Latif (SP19-BCS-030)](#_Toc558549338)

# Lab 12

## Common Solution

## Abdullah Javed (SP19-BCS-002)

## Hamza Mushtaq (SP19-BCS-007)

## Muhammad Adil Mehmood (SP19-BCS-014)

## Saif Ur Rehman (SP19-BCS-021)

## Syed Huzaifa Abid (SP19-BCS-025)

## Zulkifil Rehman (SP19-BCS-027)

## Adnan Khurshid (SP19-BCS-029)

## [Ayesha Latif (SP19-BCS-030)](#_Toc558549338)

# Lab 13

## Common Solution

## Abdullah Javed (SP19-BCS-002)

## Hamza Mushtaq (SP19-BCS-007)

## Muhammad Adil Mehmood (SP19-BCS-014)

## Saif Ur Rehman (SP19-BCS-021)

## Syed Huzaifa Abid (SP19-BCS-025)

## Zulkifil Rehman (SP19-BCS-027)

## Adnan Khurshid (SP19-BCS-029)

## [Ayesha Latif (SP19-BCS-030)](#_Toc558549338)

# Lab 14

## Common Solution

## Abdullah Javed (SP19-BCS-002)

## Hamza Mushtaq (SP19-BCS-007)

## Muhammad Adil Mehmood (SP19-BCS-014)

## Saif Ur Rehman (SP19-BCS-021)

## Syed Huzaifa Abid (SP19-BCS-025)

## Zulkifil Rehman (SP19-BCS-027)

## Adnan Khurshid (SP19-BCS-029)

## [Ayesha Latif (SP19-BCS-030)](#_Toc558549338)

# Lab 15

## Common Solution

## Abdullah Javed (SP19-BCS-002)

## Hamza Mushtaq (SP19-BCS-007)

## Muhammad Adil Mehmood (SP19-BCS-014)

## Saif Ur Rehman (SP19-BCS-021)

## Syed Huzaifa Abid (SP19-BCS-025)

## Zulkifil Rehman (SP19-BCS-027)

## Adnan Khurshid (SP19-BCS-029)

## [Ayesha Latif (SP19-BCS-030)](#_Toc558549338)

# Lab 16

## Common Solution

## Abdullah Javed (SP19-BCS-002)

## Hamza Mushtaq (SP19-BCS-007)

## Muhammad Adil Mehmood (SP19-BCS-014)

## Saif Ur Rehman (SP19-BCS-021)

## Syed Huzaifa Abid (SP19-BCS-025)

## Zulkifil Rehman (SP19-BCS-027)

## Adnan Khurshid (SP19-BCS-029)

## [Ayesha Latif (SP19-BCS-030)](#_Toc558549338)

# Lab 17

## Common Solution

## Abdullah Javed (SP19-BCS-002)

## Hamza Mushtaq (SP19-BCS-007)

## Muhammad Adil Mehmood (SP19-BCS-014)

## Saif Ur Rehman (SP19-BCS-021)

## Syed Huzaifa Abid (SP19-BCS-025)

## Zulkifil Rehman (SP19-BCS-027)

## Adnan Khurshid (SP19-BCS-029)

## [Ayesha Latif (SP19-BCS-030)](#_Toc558549338)

# Lab 18

## Common Solution

## Abdullah Javed (SP19-BCS-002)

## Hamza Mushtaq (SP19-BCS-007)

## Muhammad Adil Mehmood (SP19-BCS-014)

## Saif Ur Rehman (SP19-BCS-021)

## Syed Huzaifa Abid (SP19-BCS-025)

## Zulkifil Rehman (SP19-BCS-027)

## Adnan Khurshid (SP19-BCS-029)

## [Ayesha Latif (SP19-BCS-030)](#_Toc558549338)

# Lab 19

## Common Solution

## Abdullah Javed (SP19-BCS-002)

## Hamza Mushtaq (SP19-BCS-007)

## Muhammad Adil Mehmood (SP19-BCS-014)

## Saif Ur Rehman (SP19-BCS-021)

## Syed Huzaifa Abid (SP19-BCS-025)

## Zulkifil Rehman (SP19-BCS-027)

## Adnan Khurshid (SP19-BCS-029)

## [Ayesha Latif (SP19-BCS-030)](#_Toc558549338)

# Lab 20

## Common Solution

## Abdullah Javed (SP19-BCS-002)

## Hamza Mushtaq (SP19-BCS-007)

## Muhammad Adil Mehmood (SP19-BCS-014)

## Saif Ur Rehman (SP19-BCS-021)

## Syed Huzaifa Abid (SP19-BCS-025)

## Zulkifil Rehman (SP19-BCS-027)

## Adnan Khurshid (SP19-BCS-029)

## [Ayesha Latif (SP19-BCS-030)](#_Toc558549338)