

Group 4:

Group Members:

1.Zahir Ayub Khan(Group Leader)

2.Jamal khan

3.Nauman Ali

4.Syed Shan E Ali

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Lab 5 Common Solution :

```
create table Student (  
ID nchar(30),  
Name varchar(30),  
);  
  
create table Transcript (  
Subject nchar(30),  
GPA nchar(30),  
ID nchar(30),  
);  
  
INSERT INTO Student (ID, Name)  
VALUES ('Sp17-bse-001', 'ahmad khan');  
  
INSERT INTO Student (ID, Name)  
VALUES ('Sp17-bse-002', 'Hassan ali');  
  
INSERT INTO Student (ID, Name)  
VALUES ('Sp17-bse-003', 'Bilal Khan');  
  
INSERT INTO Student (ID, Name)  
VALUES ('Sp17-bse-004', 'Rana Noon');  
  
INSERT INTO Student (ID, Name)  
VALUES ('Sp17-bse-005', 'Zoya Yusufzai');  
  
INSERT INTO Student (ID, Name)  
VALUES ('Sp17-bse-006', 'Zain Ahmad');  
  
INSERT INTO Student (ID, Name)  
VALUES ('Sp17-bse-007', 'Ghulam mujtaba');  
  
INSERT INTO Student (ID, Name)  
VALUES ('Sp17-bse-008', 'Hamza ali khan');  
  
INSERT INTO Student (ID, Name)  
VALUES ('Sp17-bse-009', 'Ali Joiya');  
  
INSERT INTO Student (ID, Name)  
VALUES ('Sp17-bse-010', 'Alex markovich');  
  
INSERT INTO Transcript(Subject,GPA,ID)  
VALUES ('Math','2.3','Sp17-bse-001');  
  
INSERT INTO Transcript(Subject,GPA,ID)  
VALUES ('English','3.3','Sp17-bse-002');  
  
INSERT INTO Transcript(Subject,GPA,ID)  
VALUES ('Database system','2.7','Sp17-bse-003');  
  
INSERT INTO Transcript(Subject,GPA,ID)  
VALUES ('OOP','3.7','Sp17-bse-004');  
  
INSERT INTO Transcript(Subject,GPA,ID)  
VALUES ('Islamic studies','3.0','Sp17-bse-005');
```

```

INSERT INTO Transcript(Subject,GPA,ID)
VALUES ('CA','2.0','Sp17-bse-006');

INSERT INTO Transcript(Subject,GPA,ID)
VALUES ('Advance OOP','2.7','Sp17-bse-007');

INSERT INTO Transcript(Subject,GPA,ID)
VALUES ('statistics','2.3','Sp17-bse-008');

INSERT INTO Transcript(Subject,GPA,ID)
VALUES ('Cal1','2.3','Sp17-bse-009');

INSERT INTO Transcript(Subject,GPA,ID)
VALUES ('SQE','2.7','Sp17-bse-010');

/* Above work is Zahir Ayub Khan. Work Below Is Jamal khan*/

```

```

create database StudentTranscriptDB
use StudentTranscriptDB

```

```

create table Student(
StudentId nchar(30),
Name(30))

insert into Student(StudentId,Name) values
('fa20-bcs-001','ali')
insert into Student(StudentId,Name) values
('fa20-bcs-002','Aftab')
insert into Student(StudentId,Name) values
('fa20-bcs-003','Ammar')
insert into Student(StudentId,Name) values
('fa20-bcs-004','Mohsin')
insert into Student(StudentId,Name) values
('fa20-bcs-005','Zubair')
insert into Student(StudentId,Name) values
('fa20-bcs-006','Daniyal')
insert into Student(StudentId,Name) values
('fa20-bcs-007','Usman')
insert into Student(StudentId,Name) values
('fa20-bcs-008','Abbass')
insert into Student(StudentId,Name) values
('fa20-bcs-009','Saddique')
insert into Student(StudentId,Name) values
('fa20-bcs-010','Umar')

```

```

create table Transcript(
CourseName nchar(30),
GPA float(30),
StudentId nchar(30)
);

insert into Transcript (CourseName,GPA,StudentId) values

```

```

('Database Systems','1.3','fa20-bcs-001')
insert into Transcript (CourseName,GPA,StudentId) values
('Database Systems','1.3','fa20-bcs-002')
insert into Transcript (CourseName,GPA,StudentId) values
('Database System','2.7','fa20-bcs-003')
insert into Transcript (CourseName,GPA,StudentId) values
('Database Systems','3.3','fa20-bcs-004')
insert into Transcript (CourseName,GPA,StudentId) values
('Database System','4.0','fa20-bcs-005')
insert into Transcript (CourseName,GPA,StudentId) values
('Operating Systems','2.7','fa20-bcs-006')
insert into Transcript (CourseName,GPA,StudentId) values
('Database Systems','2.0','fa20-bcs-007')
insert into Transcript (CourseName,GPA,StudentId) values
('Database Systems','3.7','fa20-bcs-008')
insert into Transcript (CourseName,GPA,StudentId) values
('Operating Systems','2.5','fa20-bcs-009')
insert into Transcript (CourseName,GPA,StudentId) values
('Database Systems','3.0','fa20-bcs-010')

```

```

Select Count(*) As [Number of std]
FROM [StudentTranscriptDB].[dbo].[Transcript]

```

```

Group By CourseName

```

```

Select CourseName, AVG(GPA) As [AVG GPA]
FROM [StudentTranscriptDB].[dbo].[Transcript]

```

```

Group By CourseName

```

Zahir Ayub Khan:

```

create table Student (
ID nchar(30),
Name varchar(30),
);

```

```

create table Transcript (
Subject nchar(30),
GPA nchar(30),
ID nchar(30),
);

```

```

INSERT INTO Student (ID, Name)
VALUES ('Sp17-bse-001', 'ahmad khan');

```

```

INSERT INTO Student (ID, Name)
VALUES ('Sp17-bse-002', 'Hassan ali');

```

```

INSERT INTO Student (ID, Name)
VALUES ('Sp17-bse-003', 'Bilal Khan');

```

```

INSERT INTO Student (ID, Name)
VALUES ('Sp17-bse-004', 'Rana Noon');

INSERT INTO Student (ID, Name)
VALUES ('Sp17-bse-005', 'Zoya Yusufzai');

INSERT INTO Student (ID, Name)
VALUES ('Sp17-bse-006', 'Zain Ahmad');

INSERT INTO Student (ID, Name)
VALUES ('Sp17-bse-007', 'Ghulam mujtaba');

INSERT INTO Student (ID, Name)
VALUES ('Sp17-bse-008', 'Hamza ali khan');

INSERT INTO Student (ID, Name)
VALUES ('Sp17-bse-009', 'Ali Joiya');

INSERT INTO Student (ID, Name)
VALUES ('Sp17-bse-010', 'Alex markovich');


INSERT INTO Transcript(Subject,GPA,ID)
VALUES ('Math','2.3','Sp17-bse-001');

INSERT INTO Transcript(Subject,GPA,ID)
VALUES ('English','3.3','Sp17-bse-002');

INSERT INTO Transcript(Subject,GPA,ID)
VALUES ('Database system','2.7','Sp17-bse-003');

INSERT INTO Transcript(Subject,GPA,ID)
VALUES ('OOP','3.7','Sp17-bse-004');

INSERT INTO Transcript(Subject,GPA,ID)
VALUES ('Islamic studies','3.0','Sp17-bse-005');

INSERT INTO Transcript(Subject,GPA,ID)
VALUES ('CA','2.0','Sp17-bse-006');

INSERT INTO Transcript(Subject,GPA,ID)
VALUES ('Advance OOP','2.7','Sp17-bse-007');

INSERT INTO Transcript(Subject,GPA,ID)
VALUES ('statistics','2.3','Sp17-bse-008');

INSERT INTO Transcript(Subject,GPA,ID)
VALUES ('Cal1','2.3','Sp17-bse-009');

INSERT INTO Transcript(Subject,GPA,ID)
VALUES ('SQE','2.7','Sp17-bse-010');

```

Jamal Khan:

```
create database StudentTranscriptDB
```

```
use StudentTranscriptDB
```

```
create table Student(  
StudentId nchar(30),  
Name(30))
```

```
insert into Student(StudentId,Name) values  
( 'fa20-bcs-001', 'ali')  
insert into Student(StudentId,Name) values  
( 'fa20-bcs-002', 'Aftab')  
insert into Student(StudentId,Name) values  
( 'fa20-bcs-003', 'Ammar')  
insert into Student(StudentId,Name) values  
( 'fa20-bcs-004', 'Mohsin')  
insert into Student(StudentId,Name) values  
( 'fa20-bcs-005', 'Zubair')  
insert into Student(StudentId,Name) values  
( 'fa20-bcs-006', 'Daniyal')  
insert into Student(StudentId,Name) values  
( 'fa20-bcs-007', 'Usman')  
insert into Student(StudentId,Name) values  
( 'fa20-bcs-008', 'Abbass')  
insert into Student(StudentId,Name) values  
( 'fa20-bcs-009', 'Saddique')  
insert into Student(StudentId,Name) values  
( 'fa20-bcs-010', 'Umar')
```

```
create table Transcript(  
CourseName nchar(30),  
GPA float(30),  
StudentId nchar(30)  
);
```

```
insert into Transcript (CourseName,GPA,StudentId) values  
( 'Database Systems', '1.3', 'fa20-bcs-001')  
insert into Transcript (CourseName,GPA,StudentId) values  
( 'Database Systems', '1.3', 'fa20-bcs-002')  
insert into Transcript (CourseName,GPA,StudentId) values  
( 'Database System', '2.7', 'fa20-bcs-003')  
insert into Transcript (CourseName,GPA,StudentId) values  
( 'Database Systems', '3.3', 'fa20-bcs-004')  
insert into Transcript (CourseName,GPA,StudentId) values  
( 'Database System', '4.0', 'fa20-bcs-005')  
insert into Transcript (CourseName,GPA,StudentId) values  
( 'Operating Systems', '2.7', 'fa20-bcs-006')  
insert into Transcript (CourseName,GPA,StudentId) values  
( 'Database Systems', '2.0', 'fa20-bcs-007')  
insert into Transcript (CourseName,GPA,StudentId) values  
( 'Database Systems', '3.7', 'fa20-bcs-008')  
insert into Transcript (CourseName,GPA,StudentId) values  
( 'Operating Systems', '2.5', 'fa20-bcs-009')  
insert into Transcript (CourseName,GPA,StudentId) values  
( 'Database Systems', '3.0', 'fa20-bcs-010')
```

```

Select Count(*) As [Number of std]
FROM [StudentTranscriptDB].[dbo].[Transcript]

Group By CourseName

Select CourseName, AVG(GPA) As [AVG GPA]
FROM [StudentTranscriptDB].[dbo].[Transcript]

Group By CourseName

```

Update And Delete Common Solution:

```

create table Student (
ID nchar(30),
Name varchar(30),
);

create table Transcript (
Subject nchar(30),
GPA nchar(30),
ID nchar(30),
);

INSERT INTO Student (ID, Name)
VALUES ('Sp17-bse-001', 'ahmad khan');

INSERT INTO Student (ID, Name)
VALUES ('Sp17-bse-002', 'Hassan ali');

INSERT INTO Student (ID, Name)
VALUES ('Sp17-bse-003', 'Bilal Khan');

INSERT INTO Student (ID, Name)
VALUES ('Sp17-bse-004', 'Rana Noon');

INSERT INTO Student (ID, Name)
VALUES ('Sp17-bse-005', 'Zoya Yusufzai');

INSERT INTO Student (ID, Name)
VALUES ('Sp17-bse-006', 'Zain Ahmad');

INSERT INTO Student (ID, Name)
VALUES ('Sp17-bse-007', 'Ghulam mujtaba');

INSERT INTO Student (ID, Name)
VALUES ('Sp17-bse-008', 'Hamza ali khan');

INSERT INTO Student (ID, Name)
VALUES ('Sp17-bse-009', 'Ali Joiya');

INSERT INTO Student (ID, Name)

```

```

VALUES ('Sp17-bse-010', 'Alex markovich');

INSERT INTO Transcript(Subject,GPA,ID)
VALUES ('Math','2.3','Sp17-bse-001');

INSERT INTO Transcript(Subject,GPA,ID)
VALUES ('English','3.3','Sp17-bse-002');

INSERT INTO Transcript(Subject,GPA,ID)
VALUES ('Database system','2.7','Sp17-bse-003');

INSERT INTO Transcript(Subject,GPA,ID)
VALUES ('OOP','3.7','Sp17-bse-004');

INSERT INTO Transcript(Subject,GPA,ID)
VALUES ('Islamic studies','3.0','Sp17-bse-005');

INSERT INTO Transcript(Subject,GPA,ID)
VALUES ('CA','2.0','Sp17-bse-006');

INSERT INTO Transcript(Subject,GPA,ID)
VALUES ('Advance OOP','2.7','Sp17-bse-007');

INSERT INTO Transcript(Subject,GPA,ID)
VALUES ('statistics','2.3','Sp17-bse-008');

INSERT INTO Transcript(Subject,GPA,ID)
VALUES ('Cal1','2.3','Sp17-bse-009');

INSERT INTO Transcript(Subject,GPA,ID)
VALUES ('SQE','2.7','Sp17-bse-010');

UPDATE Transcript
Set GPA='2.7'
WHERE ID='Sp17-bse-001';

UPDATE Transcript
Set GPA='1.7'
WHERE ID='Sp17-bse-006';

UPDATE Transcript
Set GPA='2.3'
WHERE ID='Sp17-bse-010';

DELETE FROM Transcript WHERE ID='Sp17-bse-009';
DELETE FROM Transcript WHERE ID='Sp17-bse-008';

/* Above work is Zahir Ayub Khan. Work Below Is Jamal khan*/

create database StudentTranscriptDB
use StudentTranscriptDB

create table Student(
StudentId nchar(30),

```



```
Name(30))
```

```
insert into Student(StudentId,Name) values
('fa20-bcs-001','ali')
insert into Student(StudentId,Name) values
('fa20-bcs-002','Aftab')
insert into Student(StudentId,Name) values
('fa20-bcs-003','Ammar')
insert into Student(StudentId,Name) values
('fa20-bcs-004','Mohsin')
insert into Student(StudentId,Name) values
('fa20-bcs-005','Zubair')
insert into Student(StudentId,Name) values
('fa20-bcs-006','Daniyal')
insert into Student(StudentId,Name) values
('fa20-bcs-007','Usman')
insert into Student(StudentId,Name) values
('fa20-bcs-008','Abbass')
insert into Student(StudentId,Name) values
('fa20-bcs-009','Saddique')
insert into Student(StudentId,Name) values
('fa20-bcs-010','Umar')
```

```
create table Transcript(
CourseName nchar(30),
GPA float(30),
StudentId nchar(30)
);
```

```
insert into Transcript (CourseName,GPA,StudentId) values
('Database Systems','1.3','fa20-bcs-001')
insert into Transcript (CourseName,GPA,StudentId) values
('Database Systems','1.3','fa20-bcs-002')
insert into Transcript (CourseName,GPA,StudentId) values
('Database System','2.7','fa20-bcs-003')
insert into Transcript (CourseName,GPA,StudentId) values
('Database Systems','3.3','fa20-bcs-004')
insert into Transcript (CourseName,GPA,StudentId) values
('Database System','4.0','fa20-bcs-005')
insert into Transcript (CourseName,GPA,StudentId) values
('Operating Systems','2.7','fa20-bcs-006')
insert into Transcript (CourseName,GPA,StudentId) values
('Database Systems','2.0','fa20-bcs-007')
insert into Transcript (CourseName,GPA,StudentId) values
('Database Systems','3.7','fa20-bcs-008')
insert into Transcript (CourseName,GPA,StudentId) values
('Operating Systems','2.5','fa20-bcs-009')
insert into Transcript (CourseName,GPA,StudentId) values
('Database Systems','3.0','fa20-bcs-010')
```

```
DELETE FROM Transcript WHERE StudentId='fa20-bcs-008';
select * from Transcript
```

```

UPDATE Transcript set GPA='3.3'WHERE StudentId='fa20-bcs-010';
select * from Transcript

DELETE FROM Transcript WHERE StudentId='fa20-bcs-002';
select * from Transcript

UPDATE Transcript set GPA='3.3'WHERE StudentId='fa20-bcs-004';
select * from Transcript

DELETE FROM Transcript WHERE StudentId='fa20-bcs-001';
select * from Transcript

UPDATE Transcript set GPA='1.3'WHERE StudentId='fa20-bcs-003';
select * from Transcript

DELETE FROM Transcript WHERE StudentId='fa20-bcs-006';
select * from Transcript

UPDATE Transcript set GPA='0'WHERE StudentId='fa20-bcs-009';
select * from Transcript

```

Zahir Ayub Khan:

```

create table Student (
ID nchar(30),
Name varchar(30),
);

create table Transcript (
Subject nchar(30),
GPA nchar(30),
ID nchar(30),
);

INSERT INTO Student (ID, Name)
VALUES ('Sp17-bse-001', 'ahmad khan');

INSERT INTO Student (ID, Name)
VALUES ('Sp17-bse-002', 'Hassan ali');

INSERT INTO Student (ID, Name)
VALUES ('Sp17-bse-003', 'Bilal Khan');

INSERT INTO Student (ID, Name)
VALUES ('Sp17-bse-004', 'Rana Noon');

INSERT INTO Student (ID, Name)
VALUES ('Sp17-bse-005', 'Zoya Yusufzai');

INSERT INTO Student (ID, Name)
VALUES ('Sp17-bse-006', 'Zain Ahmad');

INSERT INTO Student (ID, Name)

```

```

VALUES ('Sp17-bse-007', 'Ghulam mujtaba');

INSERT INTO Student (ID, Name)
VALUES ('Sp17-bse-008', 'Hamza ali khan');

INSERT INTO Student (ID, Name)
VALUES ('Sp17-bse-009', 'Ali Joiya');

INSERT INTO Student (ID, Name)
VALUES ('Sp17-bse-010', 'Alex markovich');


INSERT INTO Transcript(Subject,GPA,ID)
VALUES ('Math','2.3','Sp17-bse-001');

INSERT INTO Transcript(Subject,GPA,ID)
VALUES ('English','3.3','Sp17-bse-002');

INSERT INTO Transcript(Subject,GPA,ID)
VALUES ('Database system','2.7','Sp17-bse-003');

INSERT INTO Transcript(Subject,GPA,ID)
VALUES ('OOP','3.7','Sp17-bse-004');

INSERT INTO Transcript(Subject,GPA,ID)
VALUES ('Islamic studies','3.0','Sp17-bse-005');

INSERT INTO Transcript(Subject,GPA,ID)
VALUES ('CA','2.0','Sp17-bse-006');

INSERT INTO Transcript(Subject,GPA,ID)
VALUES ('Advance OOP','2.7','Sp17-bse-007');

INSERT INTO Transcript(Subject,GPA,ID)
VALUES ('statistics','2.3','Sp17-bse-008');

INSERT INTO Transcript(Subject,GPA,ID)
VALUES ('Cal1','2.3','Sp17-bse-009');

INSERT INTO Transcript(Subject,GPA,ID)
VALUES ('SQE','2.7','Sp17-bse-010');

UPDATE Transcript
Set GPA='2.7'
WHERE ID='Sp17-bse-001';

UPDATE Transcript
Set GPA='1.7'
WHERE ID='Sp17-bse-006';

UPDATE Transcript
Set GPA='2.3'
WHERE ID='Sp17-bse-010';

DELETE FROM Transcript WHERE ID='Sp17-bse-009';
DELETE FROM Transcript WHERE ID='Sp17-bse-008';

```

Jamal Khan:

```
create database StudentTranscriptDB
use StudentTranscriptDB
```

```
create table Student(
StudentId nchar(30),
Name(30))
```

```
insert into Student(StudentId,Name) values
('fa20-bcs-001','ali')
insert into Student(StudentId,Name) values
('fa20-bcs-002','Aftab')
insert into Student(StudentId,Name) values
('fa20-bcs-003','Ammar')
insert into Student(StudentId,Name) values
('fa20-bcs-004','Mohsin')
insert into Student(StudentId,Name) values
('fa20-bcs-005','Zubair')
insert into Student(StudentId,Name) values
('fa20-bcs-006','Daniyal')
insert into Student(StudentId,Name) values
('fa20-bcs-007','Usman')
insert into Student(StudentId,Name) values
('fa20-bcs-008','Abbass')
insert into Student(StudentId,Name) values
('fa20-bcs-009','Saddique')
insert into Student(StudentId,Name) values
('fa20-bcs-010','Umar')
```

```
create table Transcript(
CourseName nchar(30),
GPA float(30),
StudentId nchar(30)
);
```

```
insert into Transcript (CourseName,GPA,StudentId) values
('Database Systems','1.3','fa20-bcs-001')
insert into Transcript (CourseName,GPA,StudentId) values
('Database Systems','1.3','fa20-bcs-002')
insert into Transcript (CourseName,GPA,StudentId) values
('Database System','2.7','fa20-bcs-003')
insert into Transcript (CourseName,GPA,StudentId) values
('Database Systems','3.3','fa20-bcs-004')
insert into Transcript (CourseName,GPA,StudentId) values
('Database System','4.0','fa20-bcs-005')
insert into Transcript (CourseName,GPA,StudentId) values
('Operating Systems','2.7','fa20-bcs-006')
insert into Transcript (CourseName,GPA,StudentId) values
('Database Systems','2.0','fa20-bcs-007')
```

```

insert into Transcript (CourseName,GPA,StudentId) values
('Database Systems','3.7','fa20-bcs-008')
insert into Transcript (CourseName,GPA,StudentId) values
('Operating Systems','2.5','fa20-bcs-009')
insert into Transcript (CourseName,GPA,StudentId) values
('Database Systems','3.0','fa20-bcs-010')

DELETE FROM Transcript WHERE StudentId='fa20-bcs-008';
select * from Transcript

UPDATE Transcript set GPA='3.3'WHERE StudentId='fa20-bcs-010';
select * from Transcript

DELETE FROM Transcript WHERE StudentId='fa20-bcs-002';
select * from Transcript

UPDATE Transcript set GPA='3.3'WHERE StudentId='fa20-bcs-004';
select * from Transcript

DELETE FROM Transcript WHERE StudentId='fa20-bcs-001';
select * from Transcript

UPDATE Transcript set GPA='1.3'WHERE StudentId='fa20-bcs-003';
select * from Transcript

DELETE FROM Transcript WHERE StudentId='fa20-bcs-006';
select * from Transcript

UPDATE Transcript set GPA='0'WHERE StudentId='fa20-bcs-009';
select * from Transcript

```

Lab 6 Common Solution:

```

select * from branch;
INSERT into Branch (branchNo, street, city, postcode) VALUES ('B005',
'H#88 j-13/3', 'ABT', '54000');
INSERT into Branch (branchNo, street, city, postcode) VALUES ('B006',
'H#77 k-14/6', 'KARI', '56000');
INSERT into Branch (branchNo, street, city, postcode) VALUES ('B007',
'H#89 m-11/7', 'QUA', '63000');
INSERT into Branch (branchNo, street, city, postcode) VALUES ('B008',
'H#69 I-10/2', 'ISL', '52200');
INSERT into Branch (branchNo, street, city, postcode) VALUES ('B009',
'H#35 I-61/2', 'HAR', '73000');
INSERT into Branch (branchNo, street, city, postcode) VALUES ('B0010',
'H#66 I-01/5', 'MUL', '32100');
INSERT into Branch (branchNo, street, city, postcode) VALUES ('B0011',
'H#99 I-11/3', 'ABT', '53300');
INSERT into Branch (branchNo, street, city, postcode) VALUES ('B0012',
'H#12 I-10/2', 'SWA', '57700');

```

```

INSERT into Branch (branchNo, street, city, postcode) VALUES ('B0013',
'H#19 I-13/6', 'KARI', '56600');
INSERT into Branch (branchNo, street, city, postcode) VALUES ('B0014',
'H#35 I-62/2', 'HAR', '73800');
INSERT into Branch (branchNo, street, city, postcode) VALUES ('B0015',
'H#66 I-02/5', 'MUL', '23700');
INSERT into Branch (branchNo, street, city, postcode) VALUES ('B0016',
'H#99 I-17/3', 'ABT', '81900');
INSERT into Branch (branchNo, street, city, postcode) VALUES ('B0017',
'H#12 I-80/6', 'SWA', '65100');
INSERT into Branch (branchNo, street, city, postcode) VALUES ('B0018',
'H#19 I-93/6', 'KARI', '89100');

/* Above work is Zahir Ayub Khan. Work Below Is Jamal khan*/

```

```

create database DreamHome;
use Dreamhome;
create table Branch(branchNo varchar(20) NOT NULL PRIMARY KEY, street varchar(50)
NOT NULL, city varchar(50) NOT NULL,
postcode varchar(20) NOT NULL);

```

```

INSERT into Branch (branchNo, street, city, postcode) VALUES
('B0019', 'X#11 Y-11/1', 'ABBOTTABAD', '22500');
INSERT into Branch (branchNo, street, city, postcode) VALUES
('B0020', 'X#77 Y-22/2', 'MANSERA', '23400');
INSERT into Branch (branchNo, street, city, postcode) VALUES
('B0021', 'X#89 Y-33/3', 'PESHAWER', '24500');
INSERT into Branch (branchNo, street, city, postcode) VALUES
('B0022', 'X#69 Y-44/4', 'MARDAN', '26500');
INSERT into Branch (branchNo, street, city, postcode) VALUES
('B0023', 'X#35 Y-55/5', 'KOHAH', '27500');
INSERT into Branch (branchNo, street, city, postcode) VALUES
('B0024', 'X#66 Y-66/6', 'NOWSHERA', '28500');
INSERT into Branch (branchNo, street, city, postcode) VALUES
('B0025', 'X#99 Y-77/7', 'SWABI', '29500');
INSERT into Branch (branchNo, street, city, postcode) VALUES
('B0026', 'X#12 Y-88/8', 'ISLAMABAD', '31500');
INSERT into Branch (branchNo, street, city, postcode) VALUES
('B0027', 'X#19 Y-99/9', 'RAWALPINDI', '32500');
INSERT into Branch (branchNo, street, city, postcode) VALUES
('B0028', 'X#35 Y-12/1', 'LAHORE', '33500');
INSERT into Branch (branchNo, street, city, postcode) VALUES
('B0029', 'X#66 Y-13/2', 'KARACHI', '34500');
INSERT into Branch (branchNo, street, city, postcode) VALUES
('B0030', 'X#99 Y-14/3', 'MULTAN', '35500');
INSERT into Branch (branchNo, street, city, postcode) VALUES
('B0031', 'X#12 Y-15/4', 'HYDERABAD', '36500');
INSERT into Branch (branchNo, street, city, postcode) VALUES
('B0032', 'X#19 Y-16/5', 'OKHARA', '37500');
INSERT into Branch (branchNo, street, city, postcode) VALUES
('B0033', 'X#35 Y-12/1', 'LAHORE', '8000');
INSERT into Branch (branchNo, street, city, postcode) VALUES
('B0034', 'X#66 Y-13/2', 'KARACHI', '9000');
INSERT into Branch (branchNo, street, city, postcode) VALUES
('B0035', 'X#99 Y-14/3', 'MULTAN', '11000');

```

```

INSERT into Branch (branchNo, street, city, postcode) VALUES
('B0036', 'X#12 Y-15/4', 'HYDERABAD', '15000');
INSERT into Branch (branchNo, street, city, postcode) VALUES
('B0037', 'X#19 Y-16/5', 'OKHARA', '34500');
INSERT into Branch (branchNo, street, city, postcode) VALUES
('B0038', 'X#35 Y-12/1', 'LAHORE', '1000');
INSERT into Branch (branchNo, street, city, postcode) VALUES
('B0039', 'X#66 Y-13/2', 'KARACHI', '19000');

```

Zahir Ayub Khan:

```

select * from branch;
INSERT into Branch (branchNo, street, city, postcode) VALUES ('B005',
'H#88 j-13/3', 'ABT', '54000');
INSERT into Branch (branchNo, street, city, postcode) VALUES ('B006',
'H#77 k-14/6', 'KARI', '56000');
INSERT into Branch (branchNo, street, city, postcode) VALUES ('B007',
'H#89 m-11/7', 'QUA', '63000');
INSERT into Branch (branchNo, street, city, postcode) VALUES ('B008',
'H#69 I-10/2', 'ISL', '52200');
INSERT into Branch (branchNo, street, city, postcode) VALUES ('B009',
'H#35 I-61/2', 'HAR', '73000');
INSERT into Branch (branchNo, street, city, postcode) VALUES ('B0010',
'H#66 I-01/5', 'MUL', '32100');
INSERT into Branch (branchNo, street, city, postcode) VALUES ('B0011',
'H#99 I-11/3', 'ABT', '53300');
INSERT into Branch (branchNo, street, city, postcode) VALUES ('B0012',
'H#12 I-10/2', 'SWA', '57700');
INSERT into Branch (branchNo, street, city, postcode) VALUES ('B0013',
'H#19 I-13/6', 'KARI', '56600');
INSERT into Branch (branchNo, street, city, postcode) VALUES ('B0014',
'H#35 I-62/2', 'HAR', '73800');
INSERT into Branch (branchNo, street, city, postcode) VALUES ('B0015',
'H#66 I-02/5', 'MUL', '23700');
INSERT into Branch (branchNo, street, city, postcode) VALUES ('B0016',
'H#99 I-17/3', 'ABT', '81900');
INSERT into Branch (branchNo, street, city, postcode) VALUES ('B0017',
'H#12 I-80/6', 'SWA', '65100');
INSERT into Branch (branchNo, street, city, postcode) VALUES ('B0018',
'H#19 I-93/6', 'KARI', '89100');

```

Jamal Khan:

```

create database DreamHome;
use Dreamhome;
create table Branch(branchNo varchar(20) NOT NULL PRIMARY KEY, street varchar(50)
NOT NULL, city varchar(50) NOT NULL,
postcode varchar(20) NOT NULL);

```

```

INSERT into Branch (branchNo, street, city, postcode) VALUES
('B0019','X#11 Y-11/1', 'ABBOTTABAD', '22500');
INSERT into Branch (branchNo, street, city, postcode) VALUES
('B0020','X#77 Y-22/2', 'MANSERA', '23400');
INSERT into Branch (branchNo, street, city, postcode) VALUES
('B0021','X#89 Y-33/3', 'PESHAWER', '24500');
INSERT into Branch (branchNo, street, city, postcode) VALUES
('B0022','X#69 Y-44/4', 'MARDAN', '26500');
INSERT into Branch (branchNo, street, city, postcode) VALUES
('B0023','X#35 Y-55/5', 'KOHAAT', '27500');
INSERT into Branch (branchNo, street, city, postcode) VALUES
('B0024','X#66 Y-66/6', 'NOWSHERA', '28500');
INSERT into Branch (branchNo, street, city, postcode) VALUES
('B0025','X#99 Y-77/7', 'SWABI', '29500');
INSERT into Branch (branchNo, street, city, postcode) VALUES
('B0026','X#12 Y-88/8', 'ISLAMABAD', '31500');
INSERT into Branch (branchNo, street, city, postcode) VALUES
('B0027','X#19 Y-99/9', 'RAWALPINDI', '32500');
INSERT into Branch (branchNo, street, city, postcode) VALUES
('B0028','X#35 Y-12/1', 'LAHORE', '33500');
INSERT into Branch (branchNo, street, city, postcode) VALUES
('B0029','X#66 Y-13/2', 'KARACHI', '34500');
INSERT into Branch (branchNo, street, city, postcode) VALUES
('B0030','X#99 Y-14/3', 'MULTAN', '35500');
INSERT into Branch (branchNo, street, city, postcode) VALUES
('B0031','X#12 Y-15/4', 'HYDERABAD', '36500');
INSERT into Branch (branchNo, street, city, postcode) VALUES
('B0032','X#19 Y-16/5', 'OKHARA', '37500');
INSERT into Branch (branchNo, street, city, postcode) VALUES
('B0033','X#35 Y-12/1', 'LAHORE', '8000');
INSERT into Branch (branchNo, street, city, postcode) VALUES
('B0034','X#66 Y-13/2', 'KARACHI', '9000');
INSERT into Branch (branchNo, street, city, postcode) VALUES
('B0035','X#99 Y-14/3', 'MULTAN', '11000');
INSERT into Branch (branchNo, street, city, postcode) VALUES
('B0036','X#12 Y-15/4', 'HYDERABAD', '15000');
INSERT into Branch (branchNo, street, city, postcode) VALUES
('B0037','X#19 Y-16/5', 'OKHARA', '34500');
INSERT into Branch (branchNo, street, city, postcode) VALUES
('B0038','X#35 Y-12/1', 'LAHORE', '1000');
INSERT into Branch (branchNo, street, city, postcode) VALUES
('B0039','X#66 Y-13/2', 'KARACHI', '19000');

```

Lab 7 Common Solution:

Q1: Print the list of postcodes without any repetition

Select distinct(postcode) from Branch;

Q2: Print all fName from Staff without repetition

Select distinct(fName) from Staff;

Q3: List all staff with renaming all its columns in results

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

Q4: List all clients with re-naming all its columns to synonyms.

Select clientNo as StakeHolderID, fName as
FirstName, lName as LastName, telNo as PhoneNo, prefType as
Preference, maxRent as MaximumRent from Client;

Q5: List all staff with a salary greater than 10,000.

Select salary from Staff where salary >10000;

Q6: List all managers and supervisors.

Select [position] from Staff Where [position] = 'supervisor' OR [position]
='manager'

/* Above work is Zahir Ayub Khan. Work Below Is Jamal khan*/

Q1: Print the list of postcodes without any repetition

ANS: Select distinct(postcode) from Branch;

Q2: Print all fName from Staff without repetition

ANS: Select distinct(fName) from Staff;

Q3: List all staff with renaming all its columns in
results

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

Q4: List all clients with re-naming all its columns to
synonyms.

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

Q5: List all staff with a salary greater than 10,000. ANS
SELECT salary FROM Staff where salary >10000;

Q6: List all managers and supervisors.

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

Zahir Ayub khan:

Q1: Print the list of postcodes without any repetition

Select distinct(postcode) from Branch;

Q2: Print all fName from Staff without repetition

Select distinct(fName) from Staff;

Q3: List all staff with renaming all its columns in results

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

Q4: List all clients with re-naming all its columns to synonyms.

Select clientNo as StakeHolderID, fName as FirstName, lName as LastName, telNo as PhoneNo, prefType as Preference, maxRent as MaximumRent from Client;

Q5: List all staff with a salary greater than 10,000.

Select salary from Staff where salary >10000;

Q6: List all managers and supervisors.

Select [position] from Staff Where [position] = 'supervisor' OR [position] = 'manager'

Jamal Khan:

Q1: Print the list of postcodes without any repetition

ANS: Select distinct(postcode) from Branch;

Q2: Print all fName from Staff without repetition

ANS: Select distinct(fName) from Staff;

Q3: List all staff with renaming all its columns in results

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

Q4: List all clients with re-naming all its columns to synonyms.

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

Q5: List all staff with a salary greater than 10,000. ANS
SELECT salary FROM Staff where salary >10000;

Q6: List all managers and supervisors.

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

LAB 8 Common Solution:

Q1:

select staffNo,fName,lName,salary from staff order by salary desc

Q2:

select propertyNo,type,rooms,rent from PropertyForRent order by type

select propertyNo,type,rooms,rent from PropertyForRent order by type,rent desc

Q3:

select count(*) as myCount from PropertyForRent where rent<=500

Q4:

select count(Distinct propertyNo) As myCount from
Viewing where viewDate BETWEEN '1-May-04' AND '31-May-04';

Q5:

select count(staffNo) as myCount,sum(salary) as mySalary from staff where
position='Manager'

Q6:

```
select MIN(salary) as myMin, MAX(salary) as MyMax, AVG(salary)
as myAVG from Staff
```

Q7:

```
select staffNo, fName, lName, position,
salary from Staff where (select AVG(salary) from Staff) < salary;
```

Q8:

```
select *from Staff where salary> any(select salary from Staff
where branchNo='B002')
```

Qno9:-

```
select *from Staff where salary> all(select salary from Staff
where branchNo='B002')
```

```
/* Above work is Zahir Ayub Khan. Work Below Is Jamal khan*/
```

Q1:

Ans: select staffNo,fName,lName,salary from staff order by salary desc

Q2:

Ans: select propertyNo,type,rooms,rent from PropertyForRent order by
type select propertyNo,type,rooms,rent from PropertyForRent order by
type,rent desc

Q3:

Ans: select count(*) as myCount from PropertyForRent where
rent<=500

Q4:

Ans: select count(Distinct propertyNo) As myCount from Viewing
WHERE viewDate BETWEEN '1-May-04' AND '31-May-04';

Q5:

Ans: select count(staffNo) as myCount,sum(salary) as mySalary from
staff where position='Manager'

Q6:

Ans: select MIN(salary) as myMin, MAX(salary) as myMax, AVG(salary) as myAVG from Staff

Q7:

Ans: SELECT staffNo, fName, lName, position, salary FROM Staff WHERE (SELECT AVG(salary) FROM Staff) < salary;

Q8:

Ans: select *from Staff where salary> any(select salary from Staff where branchNo='B003')

Q9:

Ans: select *from Staff where salary> all(select salary from Staff where branchNo='B003')

Zahir Ayub Khan:

Q1:

select staffNo,fName,lName,salary from staff order by salary desc

Q2:

select propertyNo,type,rooms,rent from PropertyForRent order by type

select propertyNo,type,rooms,rent from PropertyForRent order by type,rent desc

Q3:

select count(*) as myCount from PropertyForRent where rent<=500

Q4:

select count(Distinct propertyNo) As myCount from

Viewing where viewDate BETWEEN '1-May-04' AND '31-May-04';

Q5:

select count(staffNo) as myCount,sum(salary) as mySalary from staff where position='Manager'

Q6:

select MIN(salary) as myMin, MAX(salary) as MyMax, AVG(salary) as myAVG from Staff

Q7:

select staffNo, fName, lName, position, salary from Staff where (select AVG(salary) from Staff) < salary;

Q8:

select *from Staff where salary> any(select salary from Staff
where branchNo='B002')

Qno9:-

select *from Staff where salary> all(select salary from Staff
where branchNo='B002')

Jamal Khan:

Q1:

Ans: select staffNo,fName,lName,salary from staff order by salary desc

Q2:

Ans: select propertyNo,type,rooms,rent from PropertyForRent order by
type select propertyNo,type,rooms,rent from PropertyForRent order by
type,rent desc

Q3:

Ans: select count(*) as myCount from PropertyForRent where
rent<=500

Q4:

Ans: select count(Distinct propertyNo) As myCount from Viewing
WHERE viewDate BETWEEN '1-May-04' AND '31-May-04';

Q5:

Ans: select count(staffNo) as myCount,sum(salary) as mySalary from
staff where position='Manager'

Q6:

Ans: select MIN(salary) as myMin, MAX(salary) as myMax, AVG(salary)
as myAVG from Staff

Q7:

Ans: SELECT staffNo, fName, lName, position, salary FROM Staff WHERE
(SELECT AVG(salary) FROM Staff) < salary;

Q8:

Ans: select *from Staff where salary> any(select salary from Staff where
branchNo='B003')

Q9:

Ans: select *from Staff where salary> all(select salary from Staff where
branchNo='B003')