Group 4:

Group Members:

1.Zahir Ayub Khan(Group Leader)

2.Jamal khan

3.Nauman Ali

4.Syed Shan E Ali

Table of Contents

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');
```

```sql
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');
```

```sql
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
```

```sql
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');
```

```sql
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', 'KOHAT', '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', 'KOHAT', '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')