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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FROM employees	
WHERE SALARY >	
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SELECT first_name, last_name	
FROM employees	
WHERE department_id IN (SELECT department_id FROM departments WHERE department_name='IT');	
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SELECT FIRST_NAME, LAST_NAME, SALARY	37
FROM employees	37
WHERE SALARY >	37
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SELECT first_name, last_name	
FROM employees	
WHERE department_id	
IN (SELECT department_id FROM departments WHERE department_name='IT');	
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SELECT first_name, last_name FROM employees	
WHERE manager_id in (select employee_id	
FROM employees WHERE department_id	
IN (SELECT department_id FROM departments WHERE location_id	
IN (select location_id from locations where country_id='US')));	38
1.2	38
SELECT first_name, last_name	38
FROM employees	
WHERE (employee_id IN (SELECT manager_id FROM employees));	
1.3	
SELECT first_name, last_name, salary FROM employees	
WHERE salary > (SELECT AVG(salary) FROM employees);	
1.4	
SELECT first_name, last_name, salary	
FROM employees WHERE employees.salary = (SELECT min_salary	
FROM jobs	
11.01.1 10.00	

WHERE employees.job_id = jobs.job_id);	39
1.5	39
SELECT first_name, last_name, salary	39
FROM employees	39
WHERE department_id IN	39
(SELECT department_id FROM departments WHERE department_name LIKE 'IT')	
AND salary > (SELECT avg(salary) FROM employees);	
1.6	
SELECT first_name, last_name, salary	
FROM employees	
WHERE salary >	
(SELECT salary FROM employees WHERE last_name = 'Bell') ORDER BY first_name;	
1.7	
SELECT * FROM employees	
WHERE salary = (SELECT MIN(salary) FROM employees);	
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SELECT * FROM employees	
WHERE salary >	
ALL(SELECT avg(salary)FROM employees GROUP BY department_id);	
1.12	
SELECT employee_id, first_name, last_name,	40
(SELECT department_name FROM departments d	
WHERE e.department_id = d.department_id) department	
FROM employees e ORDER BY department;	
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SELECT employee_id FROM employees	
WHERE employee_id%2 = 0;	
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SELECT DISTINCT salary	
FROM employees e1	40
WHERE 5 = (SELECT COUNT(DISTINCT salary)	40
FROM employees e2	
WHERE e2.salary >= e1.salary);	
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SELECT DISTINCT salary	41
FROM employees e1	41
WHERE 4 = (SELECT COUNT(DISTINCT salary)	
FROM employees e2	41
WHERE e2.salary <= e1.salary);	
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SELECT * FROM (41
SELECT * FROM employees ORDER BY employee_id DESC LIMIT 10) sub	41
ORDER BY employee_id ASC;	41
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SELECT * FROM departments	41
WHERE department_id	41

NOT IN (select department_id FROM employees);	
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SELECT DISTINCT salary	
FROM employees a	
WHERE 3 >= (SELECT COUNT(DISTINCT salary)	
FROM employees b	
ORDER BY a.salary DESC;	
1.19	
SELECT DISTINCT salary	
FROM employees a	
WHERE 3 >= (SELECT COUNT(DISTINCT salary)	
FROM employees b	
WHERE b.salary <= a.salary)	
ORDER BY a.salary DESC;	
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FROM employees emp2	
WHERE emp2.salary > emp1.salary);	42
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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 ('00P', '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 00P', '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
// below work is by Nauman ali
 create table Student (
 ID nchar(30),
 Name varchar(30),
 );
 create table Transcript (
 Subject nchar(30),
 GPA nchar(30),
 ID nchar(30),
 );
 INSERT INTO Std(Identity, Name)
 VALUES ('fa17-bse-000', 'ali');
 INSERT INTO Std (Identity, Name)
 VALUES ('fa17-bse-004', 'nauman');
 INSERT INTO Std (Identity, Name)
 VALUES ('fa17-bse-006', 'shan');
 INSERT INTO Std (Identity, Name)
 VALUES ('fa17-bse-008', 'sardar');
 INSERT INTO Std (Identity, Name)
 VALUES ('fa17-bse-010', 'qasim');
```

```
INSERT INTO Transcript(Subj,GPA,Identity)
VALUES ('Urdu','2.3','fa17-bse-000');
INSERT INTO Transcript(Subj,GPA,Identity)
VALUES ('English','3.3','fa17-bse-004');
INSERT INTO Transcript(Subj,GPA,Identity)
VALUES ('Cal','2.7','fa17-bse-006');
INSERT INTO Transcript(Subj,GPA,Identity)
VALUES ('Ca','3.7','fa17-bse-008')
INSERT INTO Transcript(Subj,GPA,Identity)
VALUES ('Ps','3.0','fa17-bse-010');
```

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 ('00P', '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 00P', '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
  //NAUMAN ALI
create table Student (
ID nchar(30),
Name varchar(30),
);
create table Transcript (
Subject nchar(30),
GPA nchar(30),
ID nchar(30),
);
INSERT INTO Std (Identity, Name)
VALUES ('fa17-bse-000', 'ali');
INSERT INTO Std (Identity, Name) VALUES ('fa17-bse-004', 'nauman')
```

```
INSERT INTO Std (Identity, Name)
VALUES ('fa17-bse-006', 'sardar');
INSERT INTO Std (Identity, Name)
VALUES ('fa17-bse-008', 'shan');
INSERT INTO Std (Identity, Name)
VALUES ('fa17-bse-010', 'qasim');
INSERT INTO Transcript(Subj,GPA,Identity)
VALUES ('Urdu', '2.3', 'fa17-bse-000');
INSERT INTO Transcript(Subj,GPA,Identity)
VALUES ('English', '3.3', 'fa17-bse-004');
INSERT INTO Transcript(Subj,GPA,Identity)
VALUES ('Cal','2.7','fa17-bse-006');
INSERT INTO Transcript(Subj,GPA,Identity)
VALUES ('Ca','3.7','fa17-bse-008');
INSERT INTO Transcript(Subj,GPA,Identity)
VALUES ('Ps','3.0','fa17-bse-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', 'Allex 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 ('00P', '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 00P', '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')
```

```
UPDATE Transcript set GPA='3.3'WHERE StudentId='fa20-bcs-010';
select * from Transcript WHERE StudentId='fa20-bcs-002';
select * from Transcript WHERE StudentId='fa20-bcs-002';
select * from Transcript

UPDATE Transcript set GPA='3.3'WHERE StudentId='fa20-bcs-004';
select * from Transcript WHERE StudentId='fa20-bcs-001';
select * from Transcript

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

UPDATE Transcript Set GPA='1.3'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 Joiva');
INSERT INTO Student (ID, Name)
VALUES ('Sp17-bse-010', 'Allex 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 ('00P', '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 00P', '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
//NAUMAN
create database StudentTranscriptDB
use StudentTranscriptDB
create table Transcript(
CourseName nchar(30),
GPA float(30),
StudentId nchar(30)
 insert into Transcript (Course, GPA, StdId) values
 ('Database Systems','2.3','fa17-bse-000')
insert into Transcript (Course, GPA, Stdld) values
 ('Database Systems','3.3','fa17-bse-004')
insert into Transcript (Course, GPA, Stdld) values
 ('Database System','3.7','fa17-bse-006')
insert into Transcript (Course, GPA, Stdld) values
 ('Database Systems', '3.3', 'fa17-bse-008')
insert into Transcript (Course, GPA, Stdld) values
 ('Database System','3.0','fa17-bse-010')
```

```
DELETE FROM Transcript WHERE StudentId='fa17-bse-000'; select * from Transcript

UPDATE Transcript set GPA='3.3'WHERE StudentId='fa17-bse-004'; select * from Transcript

DELETE FROM Transcript WHERE StudentId='fa17-bse-006'; select * from Transcript

UPDATE Transcript set GPA='3.3'WHERE StudentId='fa17-bse-008'; select * from Transcript

DELETE FROM Transcript WHERE StudentId='fa17-bse-010'; 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');
// NAUMAN ALI
select * from branch;
INSERT into Branch (branchNo, street, city, postcode) VALUES ('BR000', 'H#0 A-1/1', 'ABBOTTABAD', '00000');
INSERT into Branch (branchNo, street, city, postcode) VALUES ('BR001', 'H#1 B-1/2', 'LAHORE', '01000');
INSERT into Branch (branchNo, street, city, postcode) VALUES ('BR002', 'H#2 C-3/3', 'MULTAN', '02000');
INSERT into Branch (branchNo, street, city, postcode) VALUES ('BR003', 'H#3 D-3/4', 'QUETTA', '03000');
INSERT into Branch (branchNo, street, city, postcode) VALUES ('BR004', 'H#4 E-4/5', 'SAWAT', '04000');
INSERT into Branch (branchNo, street, city, postcode) VALUES ('BR005', 'H#5 F-1/6', 'SAWABI', '05000');
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 ('BR001', 'H#7 H-8/8', 'LAHORE', '20001'); INSERT into Branch (branchNo, street, city, postcode) VALUES ('BR002', 'H#8 I-9/9', 'MULTAN', '20002'); INSERT into Branch (branchNo, street, city, postcode) VALUES ('BR003', 'H#9 J-10/10', 'QUETTA', '20003'); INSERT into Branch (branchNo, street, city, postcode) VALUES ('BR004', 'H#10 K-11/11', 'SAWAT', '20004');
```

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, IName 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, IName 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, IName 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, IName 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'

//NAUMAN

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, IName 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, IName 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' DR (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,IName,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, IName, 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,IName,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, IName, 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') //NAUMAN 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 Ans:select count(*) as myCount from PropertyForRent where rent<=500 Q4:..... Ans:select count(Distinct propertyNo) As myCount from Viewing where viewDate BETWEEN 'I-May-04' AND '31-May-04'; Q5: Ans: select count(staffNo) as myCount,sum(salary) as mySalary from staff where position='Manager' Ans:select MIN(salary) as myMin, MAX(salary) as MyMax, AVG(salary) as myAVG from Staff Q7:..... Ans:select staffNo, fName, IName, position, salary from Staff where (select AVG(salary) from Staff) < salary; Ans:select *from Staff where salary> any(select salary from Staff where branchNo='B002')

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

LAB 9 Common Solution:

```
CREATE DATABASE employeese;
```

Q1:

```
SELECT FIRST NAME, LAST NAME, SALARY
FROM employees
WHERE SALARY >
(SELECT salary FROM employees WHERE last name = 'popp');
SELECT first name, last name
FROM employees
WHERE department_id
IN (SELECT department_id FROM departments WHERE
department name='IT');
/* Above work is Zahir Ayub Khan. Work Below Is Jamal khan*/
01:
SELECT * FROM employees;
02:
SELECT FIRST_NAME, LAST NAME, SALARY
FROM employees
WHERE SALARY >
(SELECT salary FROM employees WHERE last name = 'Bull');
Q3:
SELECT first_name, last_name
FROM employees
WHERE department id
IN (SELECT department_id FROM departments WHERE
department name='IT');
Jamal Khan:
```

```
SELECT * FROM employees;
Q2:
SELECT FIRST_NAME, LAST_NAME, SALARY
FROM employees
WHERE SALARY >
(SELECT salary FROM employees WHERE last name = 'Bull');
Q3:
SELECT first_name, last_name
FROM employees
WHERE department id
IN (SELECT department_id FROM departments WHERE
department name='IT');
Zahir Ayub Khan:
CREATE DATABASE employeese;
SELECT FIRST_NAME, LAST_NAME, SALARY
FROM employees
WHERE SALARY >
(SELECT salary FROM employees WHERE last_name = 'popp');
SELECT first_name, last_name
FROM employees
WHERE department_id
IN (SELECT department_id FROM departments WHERE
department_name='IT');
// NAUMAN
Q1:
Ans; SELECT * FROM employees;
Q2:....
```

```
Ans; SELECT FIRST NAME, LAST NAME, SALARY
FROM employees
WHERE SALARY >
(SELECT salary FROM employees WHERE last name = 'xxxx');
Q3:.....
Ans; SELECT first name, last name
FROM employees
WHERE department id
IN (SELECT department id FROM departments WHERE department name='cs');
LAB 10 Common Solution:
1.1
SELECT first name, last name FROM employees
WHERE manager_id in (select employee_id
FROM employees WHERE department id
IN (SELECT department id FROM departments WHERE
location id
IN (select location id from locations where country id='US')));
1.2
SELECT first name, last name
FROM employees
WHERE (employee_id IN (SELECT manager_id FROM
employees));
1.3
```

SELECT first name, last name, salary FROM employees

```
WHERE salary > (SELECT AVG(salary) FROM employees);
```

1.4

SELECT first_name, last_name, salary

FROM employees

WHERE employees.salary = (SELECT min_salary

FROM jobs

WHERE employees.job_id = jobs.job_id);

1.5

SELECT first_name, last_name, salary

FROM employees

WHERE department_id IN

(SELECT department_id FROM departments WHERE department_name LIKE 'IT')

AND salary > (SELECT avg(salary) FROM employees);

1.6

SELECT first_name, last_name, salary

FROM employees

WHERE salary >

(SELECT salary FROM employees WHERE last_name = 'Bell')
ORDER BY first_name;

```
1.7
```

SELECT * FROM employees

WHERE salary = (SELECT MIN(salary) FROM employees);

1.8

SELECT * FROM employees

WHERE salary >

ALL(SELECT avg(salary)FROM employees GROUP BY department_id);

1.12

SELECT employee_id, first_name, last_name,

(SELECT department_name FROM departments d

WHERE e.department_id = d.department_id) department

FROM employees e ORDER BY department;

1.13

SELECT employee_id FROM employees

WHERE employee_id%2 = 0;

1.14

SELECT DISTINCT salary

FROM employees e1

WHERE 5 = (SELECT COUNT(DISTINCT salary)

```
FROM employees e2
WHERE e2.salary >= e1.salary);
1.15
SELECT DISTINCT salary
FROM employees e1
WHERE 4 = (SELECT COUNT(DISTINCT salary)
FROM employees e2
WHERE e2.salary <= e1.salary);
1.16
SELECT * FROM (
SELECT * FROM employees ORDER BY employee_id DESC
LIMIT 10) sub
ORDER BY employee_id ASC;
1.17
SELECT * FROM departments
WHERE department_id
NOT IN (select department_id FROM employees);
1.18
SELECT DISTINCT salary
FROM employees a
WHERE 3 >= (SELECT COUNT(DISTINCT salary)
FROM employees b
```

```
WHERE b.salary >= a.salary)
ORDER BY a.salary DESC;
1.19
SELECT DISTINCT salary
FROM employees a
WHERE 3 >= (SELECT COUNT(DISTINCT salary)
FROM employees b
WHERE b.salary <= a.salary)
ORDER BY a.salary DESC;
1.20
SELECT*
FROM employees emp1
WHERE (1) = (
SELECT COUNT(DISTINCT(emp2.salary))
FROM employees emp2
WHERE emp2.salary > emp1.salary);
/* Above work is Zahir Ayub Khan. Work Below Is Jamal khan*/
01:
SELECT first_name, last_name FROM employees
WHERE manager id in (select employee id
FROM employees WHERE department id
IN (SELECT department_id FROM departments WHERE location_id
```

```
IN (select location id from locations where
country id='US'));
Q2:
SELECT first name, last name
FROM employees
WHERE (employee id IN (SELECT manager id FROM employees));
03:
SELECT first name, last name, salary FROM employees
WHERE salary > (SELECT AVG(salary) FROM employees);
04:
SELECT first name, last name, salary
FROM employees
WHERE employees.salary = (SELECT min salary
FROM jobs
WHERE employees.job id = jobs.job id);
05:
SELECT first name, last name, salary
FROM employees
WHERE department id IN
(SELECT department id FROM departments WHERE department_name
LIKE 'IT%')
AND salary > (SELECT avg(salary) FROM employees);
06:
SELECT first name, last name, salary
FROM employees
WHERE salary >
(SELECT salary FROM employees WHERE last name = 'Bell') ORDER
BY first_name;
07:
SELECT * FROM employees
WHERE salary = (SELECT MIN(salary) FROM employees);
08: Write a guery to find the names (first_name, last_name), the salary of
the em-ployees whose salary greater than the average salary of all
departments?
SELECT * FROM employees
WHERE salary >
ALL(SELECT avg(salary)FROM employees GROUP BY department_id);
09: Write a query to find the names (first name, last name) and salary of
the em-ployees who earn a salary that is higher than the salary of all the
Shipping Clerk (JOB ID = 'SH CLERK'). Sort the results of the salary of the
lowest to highest.
SELECT first name, last name, job id, salary
FROM employees
```

```
WHERE salary >
ALL (SELECT salary FROM employees WHERE job id = 'SH CLERK')
ORDER BY salary;
Q10: Write a query to find the names (first_name, last_name) of the
employees who are not supervisors?
SELECT b.first name, b.last name
FROM employees b
WHERE NOT EXISTS (SELECT 'X' FROM employees a WHERE
a.manager_id = b.employee_id);
011: Write a query to display the employee ID, first name, last names, and
depart-ment names of all employees.
SELECT employee_id, first_name, last name,
(SELECT department name FROM departments d
WHERE e.department id = d.department id) department
 FROM employees e ORDER BY department;
Q12: Write a query to display the employee ID, first name, last names, salary
of all employees whose salary is above average for their departments.
SELECT employee id, first name
FROM employees AS A
WHERE salary >
(SELECT AVG(salary) FROM employees WHERE department id =
A.department id);
013: Write a guery to fetch even numbered records from employees table.
SET @i = 0;
SELECT i, employee id
FROM (SELECT @i := @i + 1 AS i, employee id FROM employees)
a WHERE MOD(a.i, 2) = 0;
Q14: Write a query to find the 5th maximum salary in the employees table.
SELECT DISTINCT salary
FROM employees e1
WHERE 5 = (SELECT COUNT(DISTINCT salary)
FROM employees e2
WHERE e2.salary >= e1.salary);
Q15: Write a query to find the 4th minimum salary in the employees table.
SELECT DISTINCT salary
FROM employees e1
WHERE 4 = (SELECT COUNT(DISTINCT salary)
FROM employees e2
WHERE e2.salary <= e1.salary);</pre>
Q16: Write a query to select last 10 records from a table.
SELECT * FROM (
SELECT * FROM employees ORDER BY employee_id DESC LIMIT 10)
```

```
sub
ORDER BY employee id ASC;
017: Write a guery to list department number, name for all the departments
in which there are no employees in the department.
SELECT * FROM departments
WHERE department id
NOT IN (select department id FROM employees);
018: Write a guery to get 3 maximum salaries.
SELECT DISTINCT salary
FROM employees a
WHERE 3 >= (SELECT COUNT(DISTINCT salary)
FROM employees b
WHERE b.salary >= a.salary)
ORDER BY a.salary DESC;
019: Write a guery to get 3 minimum salaries.
SELECT DISTINCT salary
FROM employees a
WHERE 3 >= (SELECT COUNT(DISTINCT salary)
FROM employees b
WHERE b.salary <= a.salary)</pre>
ORDER BY a.salary DESC;
020: Write a guery to get nth max salaries of employees. Further practice
with nested queries
SELECT *
FROM employees emp1
WHERE (1) = (
SELECT COUNT(DISTINCT(emp2.salary))
FROM employees emp2
WHERE emp2.salary > emp1.salary);
Zahir Ayub Khan:
Jamal Khan:
01:
SELECT first name, last name FROM employees
WHERE manager id in (select employee id
FROM employees WHERE department id
IN (SELECT department id FROM departments WHERE location id
IN (select location id from locations where
country id='US'));
Q2:
```

```
SELECT first name, last name
FROM employees
WHERE (employee id IN (SELECT manager id FROM employees));
03:
SELECT first name, last name, salary FROM employees
WHERE salary > (SELECT AVG(salary) FROM employees);
04:
SELECT first name, last name, salary
FROM employees
WHERE employees.salary = (SELECT min salary
FROM jobs
WHERE employees.job id = jobs.job id);
05:
SELECT first name, last name, salary
FROM employees
WHERE department id IN
(SELECT department id FROM departments WHERE department name
LIKE 'IT%')
AND salary > (SELECT avg(salary) FROM employees);
06:
SELECT first name, last name, salary
FROM employees
WHERE salary >
(SELECT salary FROM employees WHERE last name = 'Bell') ORDER
BY first name;
Q7:
SELECT * FROM employees
WHERE salary = (SELECT MIN(salary) FROM employees);
08: Write a query to find the names (first name, last name), the salary of
the em-ployees whose salary greater than the average salary of all
departments?
SELECT * FROM employees
WHERE salary >
ALL(SELECT avg(salary)FROM employees GROUP BY department id);
Q9: Write a query to find the names (first name, last name) and salary of
the em-ployees who earn a salary that is higher than the salary of all the
Shipping Clerk (JOB ID = 'SH CLERK'). Sort the results of the salary of the
lowest to highest.
SELECT first name, last name, job id, salary
FROM employees
WHERE salary >
ALL (SELECT salary FROM employees WHERE job id = 'SH CLERK')
ORDER BY salary;
```

```
Q10: Write a query to find the names (first name, last name) of the
employees who are not supervisors?
SELECT b.first name, b.last name
FROM employees b
WHERE NOT EXISTS (SELECT 'X' FROM employees a WHERE
a.manager id = b.employee id);
Q11: Write a query to display the employee ID, first name, last names, and
depart-ment names of all employees.
SELECT employee_id, first_name, last_name,
(SELECT department name FROM departments d
 WHERE e.department id = d.department id) department
 FROM employees e ORDER BY department;
Q12: Write a query to display the employee ID, first name, last names, salary
of all employees whose salary is above average for their departments.
SELECT employee id, first name
FROM employees AS A
WHERE salary >
(SELECT AVG(salary) FROM employees WHERE department id =
A.department id);
Q13: Write a guery to fetch even numbered records from employees table.
SET @i = 0;
SELECT i, employee_id
FROM (SELECT @i := @i + 1 AS i, employee id FROM employees)
a WHERE MOD(a.i, 2) = 0;
014: Write a guery to find the 5th maximum salary in the employees table.
SELECT DISTINCT salary
FROM employees e1
WHERE 5 = (SELECT COUNT(DISTINCT salary)
FROM employees e2
WHERE e2.salary >= e1.salary);
Q15: Write a query to find the 4th minimum salary in the employees table.
SELECT DISTINCT salary
FROM employees e1
WHERE 4 = (SELECT COUNT(DISTINCT salary)
FROM employees e2
WHERE e2.salary <= e1.salary);</pre>
Q16: Write a query to select last 10 records from a table.
SELECT * FROM (
SELECT * FROM employees ORDER BY employee id DESC LIMIT 10)
sub
ORDER BY employee id ASC;
Q17: Write a query to list department number, name for all the departments
```

```
in which there are no employees in the department.
SELECT * FROM departments
WHERE department id
NOT IN (select department id FROM employees);
Q18: Write a query to get 3 maximum salaries.
SELECT DISTINCT salary
FROM employees a
WHERE 3 >= (SELECT COUNT(DISTINCT salary)
FROM employees b
WHERE b.salary >= a.salary)
ORDER BY a.salary DESC;
019: Write a query to get 3 minimum salaries.
SELECT DISTINCT salary
FROM employees a
        3 >= (SELECT COUNT(DISTINCT salary)
WHERE
FROM employees b
WHERE b.salary <= a.salary)</pre>
ORDER BY a.salary DESC;
020: Write a guery to get nth max salaries of employees. Further practice
with nested queries
SELECT *
FROM employees emp1
WHERE (1) = (
SELECT COUNT(DISTINCT(emp2.salary))
FROM employees emp2
WHERE emp2.salary > emp1.salary);
//Nauman
Q1:
Ans:SELECT first_name, last_name FROM employees
WHERE manager id in (select employee id
FROM employees WHERE department id
IN (SELECT department id FROM departments WHERE location id
IN (select location id from locations where country id='US'))):
Q2:....
Ans:SELECT first name, last name
FROM employees
WHERE (employee id IN (SELECT manager id FROM employees));
Q3:.....
Ans:SELECT first_name, last_name, salary FROM employees
WHERE salary > (SELECT AVG(salary) FROM employees);
Q4:
Ans:SELECT first name, last name, salary
FROM employees
WHERE employees.salary = (SELECT min_salary
FROM jobs
```

```
WHERE employees.job id = jobs.job id);
Q5:.....
SELECT first name, last name, salary
FROM employees
WHERE department id IN
(SELECT department id FROM departments WHERE department name LIKE 'IT%')
AND salary > (SELECT avg(salary) FROM employees);
Q6:....
Ans:SELECT first name, last name, salary
FROM employees
WHERE salary >
(SELECT salary FROM employees WHERE last name = 'Bell') ORDER BY first name:
Q7:.....
Ans:SELECT * FROM employees
WHERE salary = (SELECT MIN(salary) FROM employees);
Q8: Write a guery to find the names (first name, last name), the salary of the em-ployees whose salary greater than the average salary
of all departments?
SELECT * FROM employees
WHERE salary >
ALL(SELECT avg(salary)FROM employees GROUP BY department id);
Q9: Write a query to find the names (first name, last name) and salary of the em-ployees who earn a salary that is higher than the salary
of all the Shipping Clerk (JOB ID = 'SH CLERK'). Sort the results of the salary of the lowest to highest.
Ans:SELECT first_name,last_name, job_id, salary
FROM employees
WHERE salary >
ALL (SELECT salary FROM employees WHERE job id = 'SH_CLERK') ORDER BY salary;
QIO: Write a query to find the names (first name, last name) of the employees who are not supervisors?
Ans:SELECT b.first_name,b.last_name
FROM employees b
WHERE NOT EXISTS (SELECT 'X' FROM employees a WHERE a.manager id = b.employee id);
QII: Write a query to display the employee ID, first name, last names, and depart-ment names of all employees.
Ans:SELECT employee id, first name, last name,
(SELECT department name FROM departments d
WHERE e.department id = d.department id) department
FROM employees e ORDER BY department;
Q12: Write a query to display the employee ID, first name, last names, salary of all employees whose salary is above average for their
departments.
Ans:SELECT employee id, first name
FROM employees AS A
WHERE salary >
(SELECT AVG(salary) FROM employees WHERE department id = A.department id);
Q13: Write a query to fetch even numbered records from employees table.
Ans:SET @i = 0;
SELECT i, employee id
FROM (SELECT @i := @i + 1 AS i, employee id FROM employees)
a WHERE MOD(a.i, 2) = 0;
Q14: Write a guery to find the 5th maximum salary in the employees table.
Ans:SELECT DISTINCT salary
FROM employees et
WHERE 5 = (SELECT COUNT(DISTINCT salary)
FROM employees e2
WHERE e2.salary >= e1.salary);
Q15: Write a guery to find the 4th minimum salary in the employees table.
```

```
Ans:SELECT DISTINCT salary
FROM employees et
WHERE 4 = (SELECT COUNT(DISTINCT salary)
FROM employees e2
WHERE e2.salary <= e1.salary);
Q16: Write a query to select last 10 records from a table.
Ans:SELECT * FROM (
SELECT * FROM employees ORDER BY employee id DESC LIMIT 10) sub
ORDER BY employee id ASC;
Q17: Write a query to list department number, name for all the departments in which there are no employees in the department.
Ans:SELECT * FROM departments
WHERE department id
NOT IN (select department id FROM employees);
Q18: Write a query to get 3 maximum salaries.
Ans:SELECT DISTINCT salary
FROM employees a
WHERE 3 >= (SELECT COUNT(DISTINCT salary)
FROM employees b
WHERE b.salary >= a.salary)
ORDER BY a.salary DESC;
Q19: Write a query to get 3 minimum salaries.
Ans:SELECT DISTINCT salary
FROM employees a
WHERE 3 >= (SELECT COUNT(DISTINCT salary)
FROM employees b
WHERE b.salary <= a.salary)
ORDER BY a.salary DESC;
Q20: Write a query to get nth max salaries of employees. Further practice with nested queries
Ans:SELECT *
FROM employees empl
WHERE (1) = (
SELECT COUNT(DISTINCT(emp2.salary))
FROM employees emp2
WHERE emp2.salary > emp1.salary);
```

LAB 11 Common Solution:

Zahir Ayub Khan:

```
Jamal Khan:
Use dreamhome;
create table Name (FName varchar(50) NOT NULL,familyName varchar (50) NOT NULL);
insert into Name
values ('Jamal', 'Nawaz'),
('Aftab', 'Kurshid'),
('Abdul', 'Rehman');
-- CONCATINATION
SELECT CONCAT("Ali ", "Shoukat") AS full String;
```

```
-- extra string funtions
 SELECT LENGTH(Fname) AS LengthOfString from Name;
 select LOCATE("i", "Ali");
 SELECT upper("Abdullah");
 SELECT lower("Saifullah");
 SELECT REPEAT(familyName, 3) from Name;
 SELECT STRCMP("Afaaq", "Afaq");
 SELECT SUBSTR("Jawad", 4) AS ExtractString;
 SELECT LEFT("Amaan", 5) AS ExtractString;
 SELECT ASCII(FName) FROM Name;
  -- Maths function
 SELECT COT(6);
 SELECT COS(2);
 SELECT LOG(2);
 SELECT SQUARE(64);
 SELECT COUNT(Fname) AS NumberOfNames FROM Name;
 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;
  LAB 12 Common Solution:
  Zahir Ayub Khan:
  Jamal Khan:
 01:
 SELECT country name, COUNT(Country code)
 SELECT Sum(Urdu+English+pashto)AS total FROM country language
 02:
SELECT sum([DISTINCT] expression) From 'Country'
 03:
 SELECT count(*) as total record 'Country'
 04:
 SELECT countrylanguage
 FROM (
    SELECT countrylanguage, COUNT(*) AS cnt
    FROM mytable
    WHERE language IN ('urdu', 'german', 'french', 'english')
    GROUP BY countrylanguage
  //Nauman
  Q1:.....
 Ans:SELECT country name, COUNT(Country code)
```