SQL Server Query Notes Mr. Sachin Sirohi

M.Tech.(CSE)

```
create database rgpg
use rgpg
use sachinsirohi
drop database RGPG
alter database RGPGcollege Modify Name=RGPG
EXEC sp renamedb 'rgpg', 'RGPGcollege'
sp rename computer, Computer5
sp help
select host id()
create table computer2
ComputerName varchar(100),
ComputerAddress varchar(200),
Contact int
create table emptytable
username varchar (100)
select * from dbo.computer
select ComputerName from dbo.computer
```

```
select ComputerName, computeraddress from
computer
select * from emptytable
select Computername as 'EmpName', computeraddress
as 'EmpAddress' from computer
select Computername 'EmpName1', computeraddress
'EmpAddress1' from computer
select 'EmpName2'=Computername
, 'EmpAddress2'=computeraddress from computer
select Computername, 'Contact', computeraddress
from computer
select
Computername+'HCL'+computeraddress+'Hapur' as
Information from computer
insert into computer values ('Sony Computer'
, 'Baraut', 105)
select computername, contact, calulating=contact%2
from computer
select * from computer where ComputerName='HP'
select * from computer where Contact=102 and
ComputerName='Accer' and
ComputerAddress='modinagar'
select * from computer where Contact !=101
select * from computer where Contact <>101
select computername, ComputerAddress, Contact from
computer where Contact not between 101 and 10000
select computername, ComputerAddress, Contact from
computer where computername not in('HP','Accer')
select * from computer where ComputerAddress
like '%nagar'
select * from computer where ComputerAddress
like 'Mee%'
select * from computer where ComputerAddress
like ' eerut'
```

```
select * from computer where ComputerAddress
like 'Modina '
select * from computer where ComputerName
like' ony Compute '
select * from computer where computername like
'[a-e][a-d]%'
select * from computer where computername is
select * from computer order by computername
select top 4 computername, ComputerAddress from
computer
select distinct * from computer where
ComputerName like 'De%'
select distinct ComputerName from computer where
ComputerName like 'De%'
create table newtable
newvalue int default 0,
name char(20) not null,
haddress varchar(100) not null,
dob datetime not null,
salary float not null,
price money not null,
contact bigint not null
alter table newtable contact bigint not null
select * from newtable
insert into newtable
values(0, 'Hari', 'Meerut', '12/02/2015', 30000.50, 5
0.69,)
 create table employee
 (
```

```
emp id varchar(20) not null primary key,
 emp name varchar(100)
 select * from employee
 insert into employee values('E105', 'Payal')
 create table department
 dept Id varchar(20) not null primary key,
 Dept name varchar(100) null,
 emp id varchar(20) foreign key references
employee(emp id)
 )
 select * from department
 insert into department
values('D202', 'English', 'E102')
 delete from department where emp id='E102'
 delete from employee where emp id='E101'
 create table prmy
 u id int primary key,
 u name varchar(100) not null
 select * from prmy
 insert into prmy values(102, 'Sita')
 create table forn
 C ID int primary key,
 c name varchar(100),
 uu id int foreign key references prmy(u id)
 select * from forn
 insert into forn values(1003, 'Wipro', 102)
  create table autonumber
```

```
u id int identity(101,1) primary key,
 u name varchar(100) not null
select * from autonumber
insert into autonumber values('Hari')
create table newtable1
newtext char(6)primary key clustered
select * from newtable1
create table clust
compt id varchar(100) not null,
compt name varchar(100)
insert into clust values ('C102', 'Sony')
select * from clust
create unique clustered index abcd
on clust(compt id)
create table friends
friend name char (4) not null
constraint fr frind primary key clustered
check( friend name in ('Ram', 'Ravi', 'Rita')
or friend name like('AB[a-z][a-z]')),
frnd add varchar(50)
drop table friends
insert into friends values('ABta', 'Modinagar')
select * from friends
```

```
create table person
p ID int not null,
 lastname varchar(255) not null ,
 constraint pkperson primary key(p ID, lastname),
 addrs varchar(50)
 alter table person add addrs2 varchar(50)unique
 alter table person drop constraint pkperson
 drop table person
 select * from person
 alter table person add unique(addrs)
 insert into person
values(104, 'sharma', 'Meerut1', 'mrt1')
 create table [dbo].[EmployeeTable]
 empname varchar(100),
 addres varchar (100) not null,
 salary bigint
 insert into EmployeeTable
values('Sita', 'abcd', 50000)
 drop table[dbo].[EmployeeTable]
 select * from [dbo].[EmployeeTable]
 alter table [dbo].[EmployeeTable] add
check(salary>10000)
 insert into EmployeeTable (empname, addres)
values('Sita','Meerut')
 insert into EmployeeTable select
EmployeeTable2.empname2,addres2,salary2 from
EmployeeTable2
```

```
create table [dbo].[EmployeeTable2]
 empname2 varchar(100),
 addres2 varchar(100) not null,
 salary2 bigint
 insert into EmployeeTable2
values('James','Washington',70000)
 select * from EmployeeTable2 order by empname2
desc
 select * from EmployeeTable2 order by addres2
 select empname2, max (salary2) as 'Maximum
Salary',
min(salary2)as 'Minimum Salary',avg(salary2)
 as'average Salary', sum(salary2)as 'Total
Salary'
 from EmployeeTable2 group by empname2
 having MAX(salary2)>=100000
  select count(salary2)as 'total salary'
  from EmployeeTable2
  create table join1
  j id bigint primary key,
  jname varchar(50),
  amount bigint
  select * from join1
  insert into join1 values (11, 'Sita
kumari',4000,800)
  create table join2
  j id bigint primary key,
```

```
jnamee varchar(50),
  amountt bigint
  select * from join2
  insert into join2 values (6, 'Ravi', 5800)
  select * from join1, join2
  where join1.j id=join2.j id
   select * from join1 inner join join2 on
   join1.j id=join2.j id
   select * from join1 left join join2 on
   join1.j id=join2.j id
    select * from join1 left join join2 on
   join1.jname=join2.jnamee
   select * from join1 right join join2 on
   join1.j id=join2.j id
   select * from join1 inner join join2 on
   join1.jname=join2.jnamee inner join
EmployeeTable2
   on EmployeeTable2.empname2=join2.jnamee
   select empname2+'.'+addres2 as Full name from
EmployeeTable2
   select * from join1 where j id=101
   update join1 set jname='Ram' where j id=103
   update join1 set amount=59000 where
iname='Sita'
   update join1 set amount=9000 where j id<>993
```

```
update join1 set amount=8840 where jname
like'R%'
   update join1 set amount=9840 where jname not
in
   ('Ram', 'Sita')
  update join1 set amount=6099 where amount
like
   '%20!%%' Escape'!'
   select jname from join1 group by jname having
   sum (amount) > 10000
  update join1 set jname='Ram Kumar' from
(select
   jname as myname from join1 group by jname
having SUM(amount)
  >10000) as myselect where
join1.jname=myselect.myname
   select jname as MyName from join1
  update join1 set jname='Rita' from (select
  jnamee from join2 group by jnamee having
SUM (amountt)
  >10000) as j2 where join1.jname=j2.jnamee
  update join1 set jname='Rita' from (select
  jnamee from join2 group by jnamee having
SUM (amountt)
  >10000) as al where join1.jname=a1.jnamee
  update join1 set
amount=join1.amount+join2.amountt
  from join1, join2 where join1.j id=join2.j id
```

```
update join1 set jname='Robert' where j id=101
 update join1 set jname='Robert' from (select
  join1.j id, join2.jnamee from join1 inner join
join2
  on join1.j id=join2.j id)as myselect where
  join1.jname=myselect.jnamee
  select * from join1
  select * from join2
 delete from join2 where j id=450
 delete from join2
 truncate table join1
  alter table friends add salary bigint
  select * from friends
  insert into friends(salary) values(500000)
 update friends set salary=45000 where
friend name='ravi'
  select friend name from friends group by
friend name
 having SUM(salary)>46000
 delete friends from friends where friend name
in
  ( select friend name from friends group by
  friend name having SUM(salary) >= 46000)
   select * from employee
  select * from employee where exists( select *
  from employee where employee.emp id='E101')
  insert into employee values(2, 'Ram')
```

```
select * from join1
  select * from join2
  select * from employee where exists(Select *
from
  join1 inner join join2 on
join1.jname=join2.jnamee
 where join1.jname=employee.emp name)
select j id, jname from join1 where j id in(
 select j id from join2 where j id=3)
select j id, jname from join1 where jname<>all
 (select jnamee from join2)
  select j id, jname from join1 where jname=any
 (select jnamee from join2)
select j id, jname from join1 where jname=some
 (select jnamee from join2)
 select * from join1 where amount like' 0%'
 select * from join1 where amount like'20%'
update join1 set amount=5000 where jname like
'p%'
select amount, ISNULL (amount, $0.00) from join1
insert into join1(j id, jname) values(10, 'gita')
select * from join1 where amount is null
 select * from join1 where amount is not null
select * from join1 where amount = null
select * from join1 where amount between 2000
and 8000
```

```
select distnct jname from join1
 select j_id+amount from join1
 select j id*amount from join1
 select (amount+100) / 10 from join1
 select amount*(10+50) from join1
 alter table join1 add salary bigint
 update join1 set salary=5000
 select count (distinct jname) as 'total name
row', count (amount)
 from join1
 select count(all jname) from join1
 select count(*)from join1
 select sum(amount)from join1
 select avg(amount)from join1
 select max(amount) from join1
 select min(amount) from join1
 select 'jhon'+'son' returns from join1
 select replace (jname, 'hari', 'B'), jname from
join1
 select upper(jname) from join1
 select lower(jname) from join1
 select substring(jname, 1, 2) from join1
 select INSTR(jname, 'S', 1, 5) from join1
 SELECT LTRIM(jname) from join1
 select * from join1
 insert into join1(j id,amount) values(23,65)
 SELECT ltrim(rtrim(Left(jname, 4))) from join1
 select ltrim(rtrim(' Word '))as UserName
```

```
select ascii('A'),ascii('a')
 select len(jname) from join1
 select len('Word') from join1
 select len('Word')
 select * from join1 where jname is null
 select char(65)
 select stuff('weather', 3, 2, '-Compter-')
 select substring('Computer', 2, 3)
 select reverse('Computer')
 select patindex('%c%','Tcomcruize')
 select charindex('l', 'hello')
 select str2='hello', str(123) as str1
 select pay=str(amount)from join1
 select char(65)
 select integer(j id) from join1
 select pay=amount, payrt=str(amount) from join1
 select pay=amount, payrt=char(amount) from
join1
 select j id+amount from join1
 select 'hello '+'word '+jname from join1
 select getdate()
 select dateadd(month, 4, getdate())
 select dateadd(year, 4, getdate())
 select dateadd(day, 6, getdate())
 select datepart(yy, getdate()) as'dat part
values'
 select datepart(mm, getdate()) as 'dat part
values'
 select datepart(dd, getdate()) as'dat part
values'
 select
datename (month, getdate()) as 'DateNameValues'
 select datename(yy,getdate())as'DateNameValues'
```

```
select datename(dd,getdate())as'DateNameValues'
 select datediff (mm, getdate(), '2015-09-
17') as 'DateDiffValues'
 select datediff(dd, getdate(), '2015-04-
17') as 'DateDiffValues'
 select datediff(yy, getdate(), '2019-04-
17') as 'DateDiffValues'
 select day('2015-04-15')
 select month('2015-04-15')
 select year('2015-04-15')
 select cast(salary as bigint ) from join1
 select ('2015-01-15', 'month dd yyyy')
 select getutcdate()
 select * from join1
 select jname, j id from join1 group by
j id, jname
 select sum(amount), j id, jname from join1 where
amount>1000 group by j id, jname
 select jname, j id, max(amount) from join1 where
amount>1000 group by j_id,jname
 select count(*) from join1
 select jname, sum(amount) from join1 group by
jname
 select salary, sum (amount) from join1 group by
salary
 select jname, sum (amount) from join1 where jname
in
 ('sita', 'gita') group by jname order by jname
asc
select j id, salary from join1 union
select j id, sum (amount) from join1 group by
j id, amount
```

```
select j id, salary from join1 union
select j_id, salary from join1 group by
j id, salary
select j id, salary from join1 union
select j id, amountt from join2 group by
j id, amountt
select jname, sum(j id), sum(salary) as 'salary'
from
join1 group by jname
select jname, sum(j id), count(*) from join1 group
by
iname order by 1
select jname, sum(j id), count(*) from join1 group
by
jname having sum(j id)=2
select jname, j id, count(*) from join1 where
j id between 5 and 20 group by jname, j id having
j id between 10 and 20 order by j id
self equality join
select join1.j id,join2.jnamee from join1,join2
where join1.j id=join2.j id
Natural join
select join1.*,join2.j id from join1,join2
where join1.j id=join2.j id
select jname, jnamee from join1, join2
where join1.j_id=join2.j_id
```

```
inner join
select jname, jnamee from join1 inner join join2
on join1.j id=join2.j id
left outer join
select join1.jname, join2.jnamee from join1 left
outer
join join2 on join1.j id=join2.j id
right outer join
select join1.jname,join2.jnamee from join1 right
outer
join join2 on join1.j id=join2.j id
where join2.amountt=5000
full outer join
select join1.jname,join2.jnamee from join1 full
outer
join join2 on join1.j id=join2.j id
cross join
select join1.jname, join2.jnamee from join1 cross
join join2
select join1.jname, join2.jnamee from join1, join2
equi join
select * from join1 join
join2 on join1.j id=join2.j id
self join using alias
select a.j id,a.jnamee,b.j id,b.jnamee from
join2 a, join2 b where a.j id=b.j id
```

```
select * from join1
select * from join2
desc join1
select
a.j id,a.jname,a.amount,b.j id,b.jnamee,b.amount
from join1 a join join2 b on a.j id=b.j id and
a.amount=b.amountt
select join1.j id,join2.j id from join1,join2
select j id, amount from join1 where
jname=(select
jnamee from join2 where in jnamee='Sita')
Experiment
select join1.j_id,join1.amount from join1,join2
where
join1.jname=(select join2.jnamee from
join1, join2 where
join1.jname=join2.jnamee)
select j id, amount from join1 where
jname=(select
jnamee from join2 where jnamee | (select jname
from
join1 where jname='Ram'))
select * from join1 where jname
in('sita','gita','ram')
select * from join2
insert into join2 values(4, 'Ram', 4004)
```

```
insert into join2 select j id, jname, amount from
join1
where j id=11
insert into join2 select a.j id,a.jname,b.amount
from join1 a, join3 b where a.j id=b.j id and
b.amount<(select amount from join3 where
j id=101)
create table join3
j id bigint primary key,
jname nvarchar(100) not null,
amount bigint not null
insert into join3 values(4, 'Gulfasha', 6000)
select * from join3
update join3 set jname='Ram' where j id=5
update join3 set jname='Shabana' where j id in(
select j id from join2 where jnamee='Ram')
delete from join3 where j id=101
delete from join3 where j id in (select j id from
join2
where j_id>5)
select j id, jname from join1 where j id
in (select
a.j id from join2 a, join3 b where a.j id=b.j id
a.jnamee in (select c.jname from join1 c where
j id<50))
select max(j id),count(*) from join1
```

```
select stdev(amount) from join1
select stdevp(amount) from join1
select var(j id) from join1
select varp(j id) from join1
select * from join1
select abs((-5)+17)
select abs(-17.455)
select acos (-1.00)
with att as (select
jname, amount, row number() over(partition by
jname, amount order by amount ) as NoOfRow from
join1)
delete from att where NoOfRow=2
create view abc as
select jname, jnamee from join1, join2 where
iname=inamee
Multiple Table not update
update abc set jname='Tom cruize',jnamee='Tom
cruize2'
where jname='Ram'
single Table update
update abc set jname='Tom cruize'
where jname='Ram'
select * from abc
alter view abc as
```

```
select a.jname, b.jnamee from join1 a, join2 b
where
a.j_id=b.j_id

drop view abc
sp_rename abc, abc2

EXEC sp_RENAME 'join1.jnamee',
'jname'
select * from join1

delete ate from (select
jname, amount, row_number() over
(partition by jname, amount order by amount ) as
NoOfRow from join1) ate where ate.NoOfRow=2
```