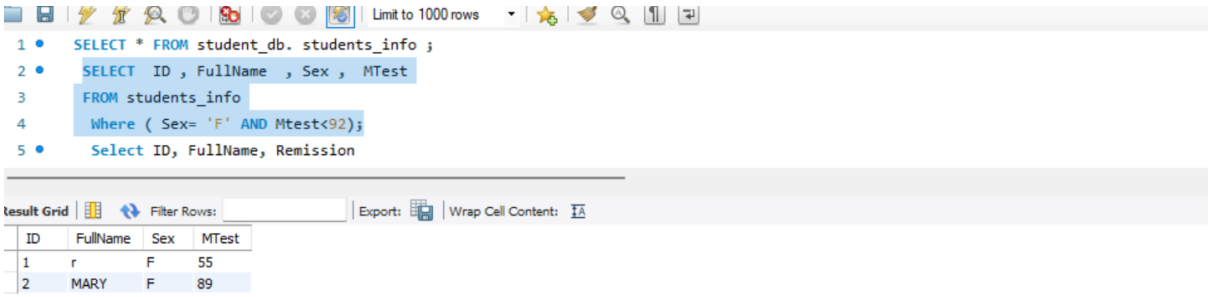
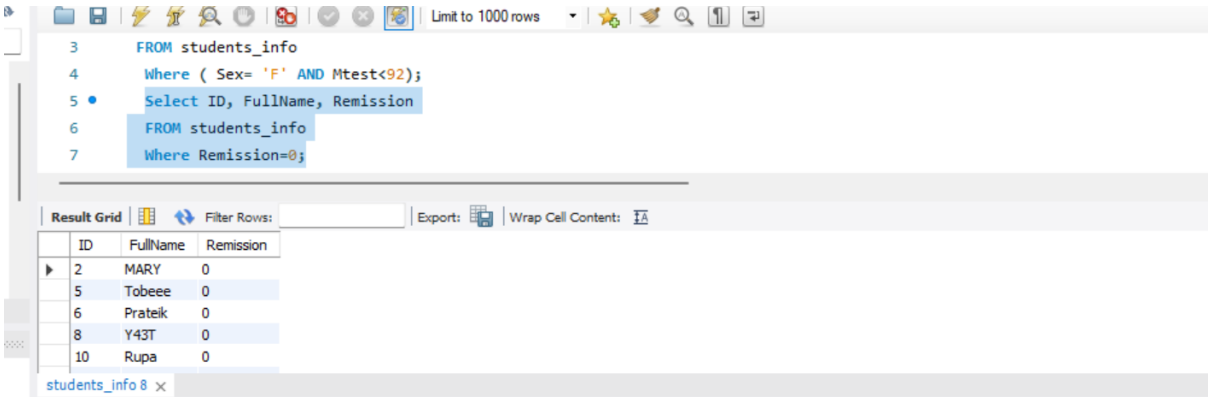


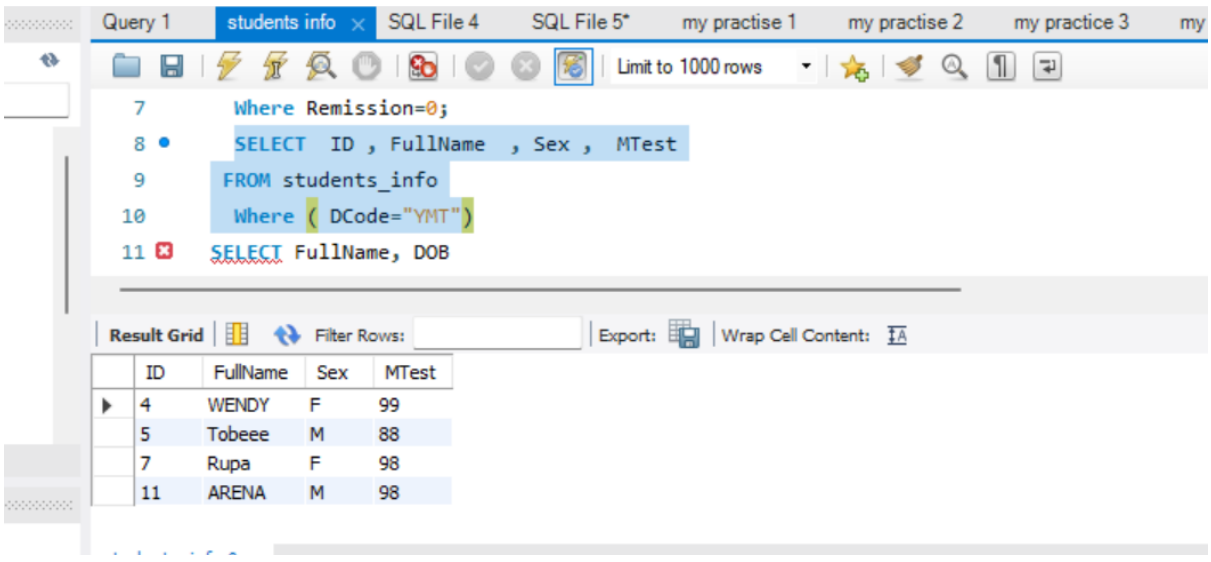
```
SELECT * FROM student_db. students_info ;
 SELECT  ID , FullName  , Sex ,  MTest
FROM students_info
 Where ( Sex= 'F' AND Mtest<92);
  Select ID, FullName, Remission
```

ID	FullName	Sex	MTest
1	r	F	55
2	MARY	F	89



```
FROM students_info
 Where ( Sex= 'F' AND Mtest<92);
 Select ID, FullName, Remission
 FROM students_info
 Where Remission=0;
```

ID	FullName	Remission
2	MARY	0
5	Tobeee	0
6	Prateik	0
8	Y43T	0
10	Rupa	0



```
  Where Remission=0;
  SELECT  ID , FullName  , Sex ,  MTest
 FROM students_info
  Where ( DCode="YMT")
SELECT FullName, DOB
```

ID	FullName	Sex	MTest
4	WENDY	F	99
5	Tobeee	M	88
7	Rupa	F	98
11	ARENA	M	98

```
 9      FROM students_info
10       Where ( DCode="YMT")
11     SELECT FullName, DOB
12     FROM Students_info
13     WHERE (DOB > '01/01/2000 ');
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

FullName	DOB
r	04-06-1986 00:00
MARY	10-01-1986 00:00
PETER Agrawal	17-03-1986 00:00
WENDY	12-07-1986 00:00
Tobeee	17-10-1986 00:00

Students info 10 ×

```
4     select ID, FullName, Sex, MTEST
5
6     from students_info
7     where sex = "M"
8     And MTest > 70
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

ID	FullName	Sex	MTEST
3	PETER Agrawal	M	100
5	Tobeee	M	88
6	Prateik	M	95
8	Y43T	M	75
9	Ramish	M	87

dents_info 1 ×

```
9     / * converting mtest into final score by multiplying 25%*/
0     select ID, FullName, Mtest*.25
1     From students_info
2     where Sex= "M"
3     And MTest>70 ;
```

sult Grid | Filter Rows: | Export: | Wrap Cell Content:

ID	FullName	Mtest*.25
3	PETER Agrawal	25.00
5	Tobeee	22.00
6	Prateik	23.75
8	Y43T	18.75
9	Ramish	21.75

```
create table finalreport
(ID Integer,
FUllName char(100),
Sex char(10),
FinalMtest int
);
insert into finalreport (ID, FullName, Sex, FinalMtest)
select ID, FullName, Sex, Mtest*.25
From students_info
where Sex= "M"
And MTest>70 ;
```

```
use student_db;
// finding student who play music and not play music//
select ID, FullName
from students_info
where ID In ( select ID from music);
use book_management;

use student_db;
// finding mtest between 70 and 80 or not between 70 and 80, in or not in//
Select ID, FullName
From students_info
where ID Not In (select ID from students_info where Mtest Between 70 and 80);

```

```
// group bys, we do group by when we need to count something//
// finding total no of students by class//
select class, count(class) as totalstd
from students_info
group by class;
```

```
// finding total no of boys in each class//
select class, count(class) as totalboysstd
from students_info
where sex = "M"
group by class;
```

```
// classes have atleast 3 boys, greater than equal to 3//
select class, count(class) as totalboysstd
from students_info
where sex = "M"
group by class
having count(class)>=3;
//calculating no of boys and girls in each class, we will do count star here to calculate null value also//
select class, sex, count(*) as totalstd
from students_info
group by class, sex;
```

```
// order by, here we do not count we extract data as per need//
// extracting data like class starting from 1a ie ascending order and mtest as descending order//
select ID, FUllName, Class, Sex, Mtest
from students_info
order by class asc, Mtest desc;
// finding ptest asc and class desc for only girls// doubt
select ID, FUllName, Class, Sex, Ptest where Sex= "F"
from students_info
order by class desc, Ptest asc;
```

```
// Ranking system, rank comes like 1 1 3 3 4 4 7 but dense rank is like nth highest score 1 1 2 2 2 3 3 3 4 4 4 4 5 5 6//
//finding rank of ptest//
select FullName, Ptest, Rank() over ( order by Mtest desc ) as rnkholdeer
from students_info;
// finding dense rank and rank together// doubt
select FullName, Ptest, Rank() over ( order by Ptest desc ) as rnkholder
dense_rank() over (order by Ptest desc) as Nthhigh
from students_info;
//finding the rank within the each class//
select FullName, Ptest, class, Rank() over (partition by class order by Ptest desc)
from students_info;
```

```
// finding classwise average marks of girls//
select class, avg(Ptest) as avgmarks
from students_info
where Sex= "M"
group by class;

//should not show class less than 2 girls//
select class, avg(Ptest) as avgmarks
from students_info
where Sex= "F"
group by class
having count(*)>=2;
```

```
//listing the house of girls sorted by class//
select FullName,class,Hcode,Sex
from students_info
where Sex="F"
order by class, Hcode;


//how many students have unique name//
select Fullname, Count(*) as repeatedname
from students_info
group by FullName; // this gave name and no of times repeated//
```

```
// finding scholars ...scholar criteria ptest>80//
select FullName, if( Ptest>80, "Scholar", " Nonscholar") as designation
from students_info;
//counting no of scholars and nonscholars// doubt
select FullName,  if( Ptest>80, "Scholar", " Nonscholar") as designation
count(*)
from students_info;

// ptest>90 scholar, between 80 and 90 very good, else poor//
select Fullname, Ptest, if( Ptest>90, "scholar", if( ptest>=80, "Average", " Poor")) as designation
from students_info;
```

```
106   //finding 2nd highest scorer//
107   select FullName, Ptest
108   from students_info
109   where Ptest<(select Max(Ptest) from students_info)
110   order by Ptest desc
111   limit 1;
112   // finding top 30% of girls in Ptest//
113   select ceil(count(*) * .3)
114   from students_info
115   where Sex= "F";
116   //so we have to find only top 3 girls//
117   select FullName, Ptest, Sex
118   from students info
```

```
select ceil(count(*) * .3)
from students_info
where Sex= "F";
//so we have to find only top 3 girls//
select FullName, Ptest, Sex
from students_info
where Sex="F"
order by Ptest desc
limit 2;
```

```
//union and joints//
// finding students who is playing bridge as well as chess//

select ID, FullName
from bridge
union
select ID, FullName
from Chess;
```

```
// finding chess performance for bridge playes here we have to give dummy colum for extra column in chess ie " "//
select ID, FUllName, Chessperformance
from chess
union select ID, FullName, " "
from bridge;

// Fetch all the students of class 1A if there exists a student playing music//
select ID, FUllName, class
from students_info
where class= "1A" and ID In( Select ID from Music);


// to get type column for extratcting students who play music//
select students_info.ID, FUllName, Type
from students_info inner join Music on students_info.ID = Music.ID;
// students who are playing music as well as not playing music// here joing whole student column with musis ie left join//
select students_info.ID, FUllName, Type
from students_info left join Music on students_info.ID = Music.ID;
// find no of students learning piano in each class//

//no of students playing piano//
select count(Type) as tot
from Music
where Type= "Piano";
```