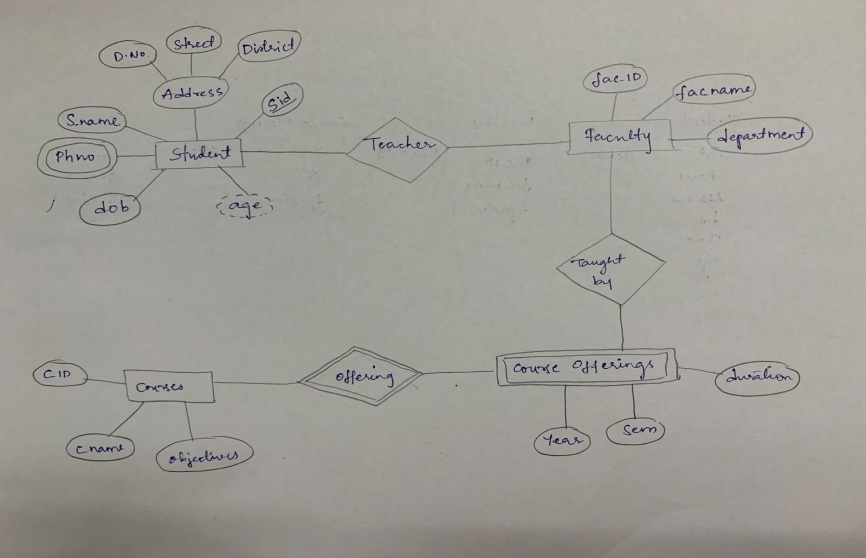
Experiment –1

ER DIAGRAM OF COLLEGE DATABASE

**Aim:** To draw an ER diagram of college database.



Experiment –2

ER DIAGRAM FOR SAILOR BOAT DATABASE

**Aim:** To draw an ER diagram of sailor boat database.



Experiment –3

RELATIONAL MODEL FOR COLLEGE DATABASE

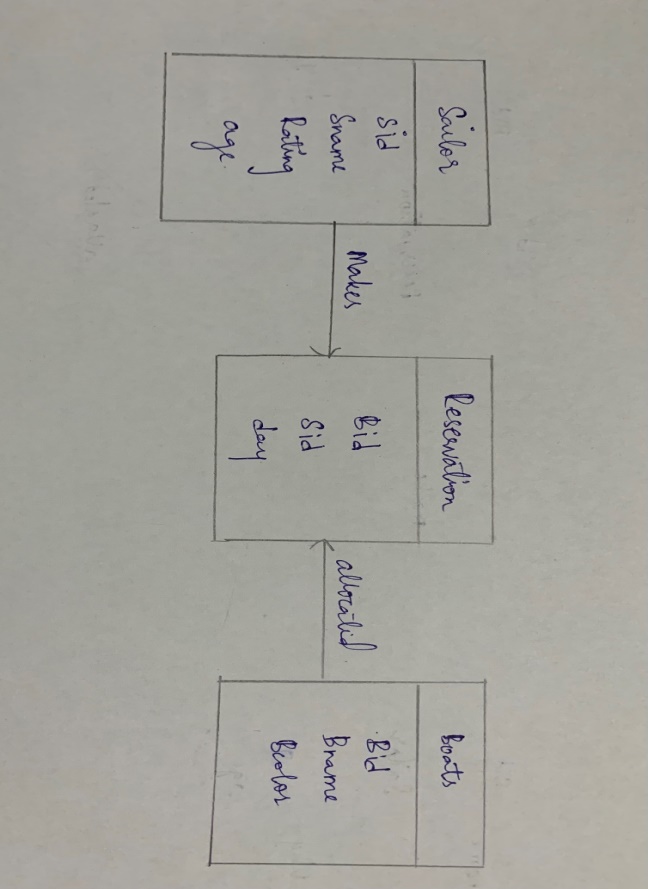
**Aim:** Draw an relational model for college database.



Experiment –4

RELATIONAL MODEL FOR SAILOR BOAT DATABASE

Aim: Draw a relational model for a sailor boat database.



Experiment –5

Activity – 1

1.Create schema college

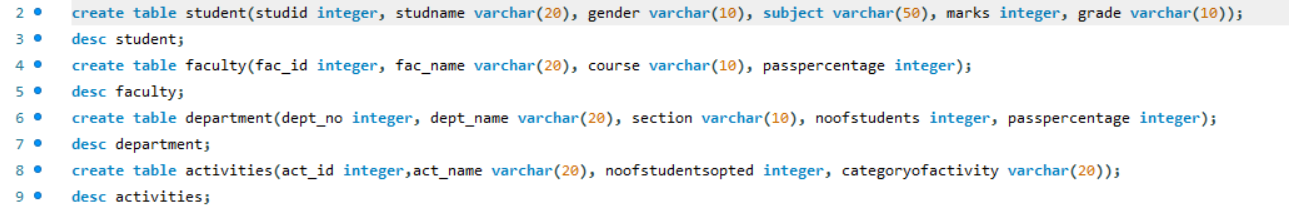
C:\Users\ASUS\Desktop\create schema.png

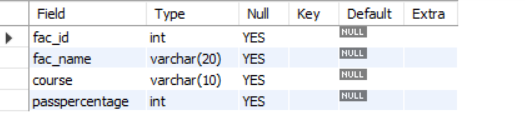
2. Create table-student and attributes are studid, studname, gender, subject, marks, grade.

3. Create table-Faculty and attributes are fac\_id, fac\_name, course, pass percentage.

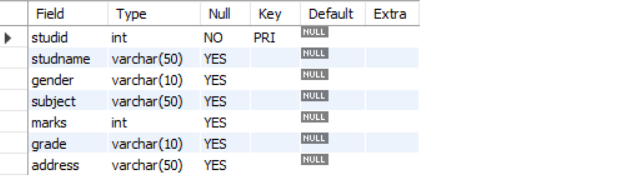
4. Create table-department and attributes are dept-no, dept\_name, section, no of students , pass percentage.

5. Create table-activity and attributes are act\_id, act\_name, no of students opted, category of activity.



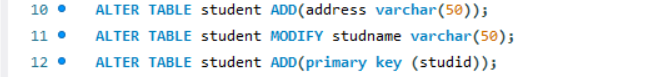


Student table:



Activity – 2

1. Add address in student table, change the datatype size for student name and make studid as primary key



2. Add faculty total mentor details , make fac\_id as primary key

C:\Users\ASUS\Desktop\fac.png

3.Add no of students in wise and make dept no as primary key

C:\Users\ASUS\Desktop\dep.png

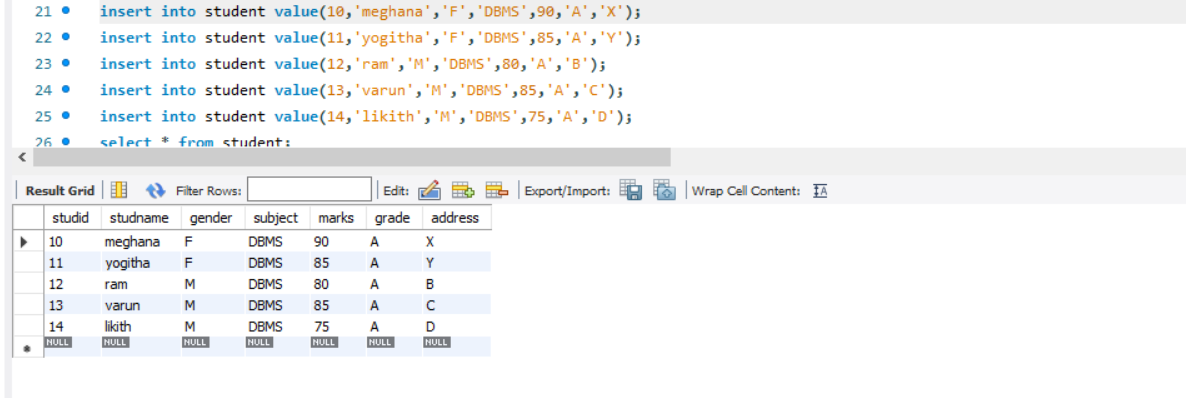
4. Add faculty name and change the size of act\_name and act\_id as primary key

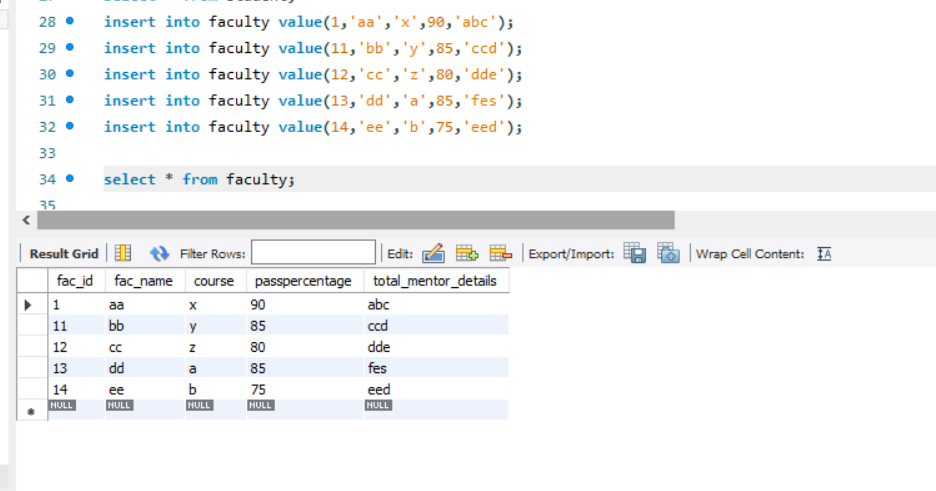


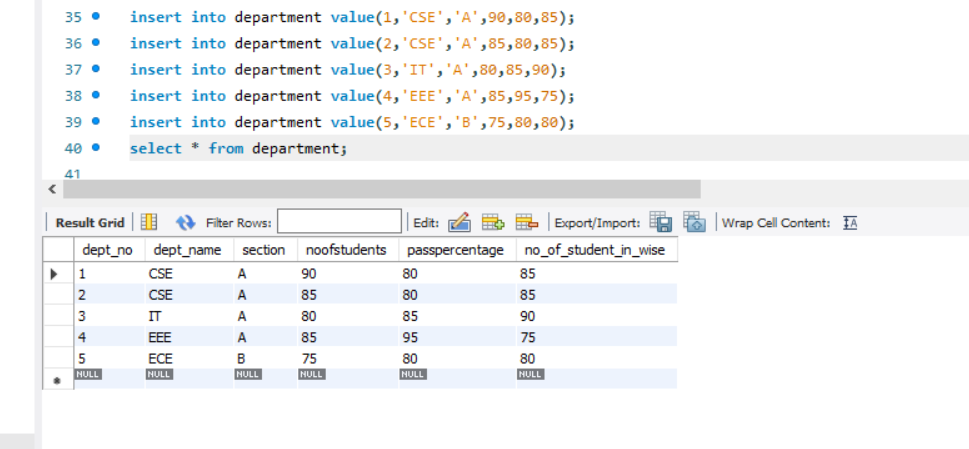
Experiment-6

Activity – 3

1. Insert 5 instances in each table and display the result



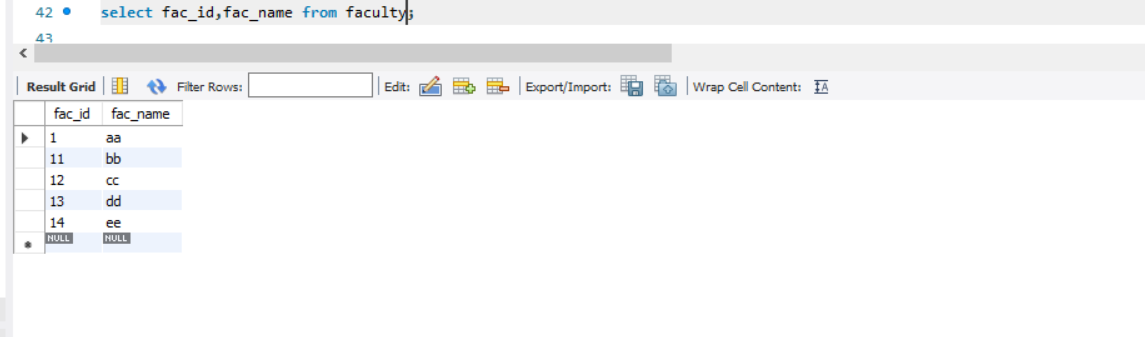




2. Display student no, marks from student table



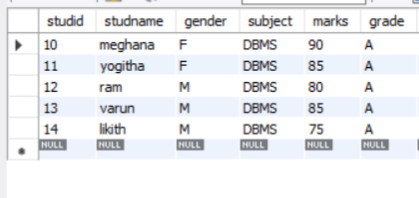
3. Display faculty no, name from faculty table



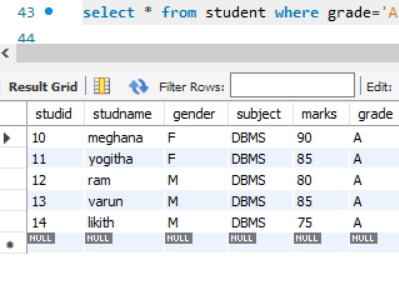
Experiment-7

Activity – 4

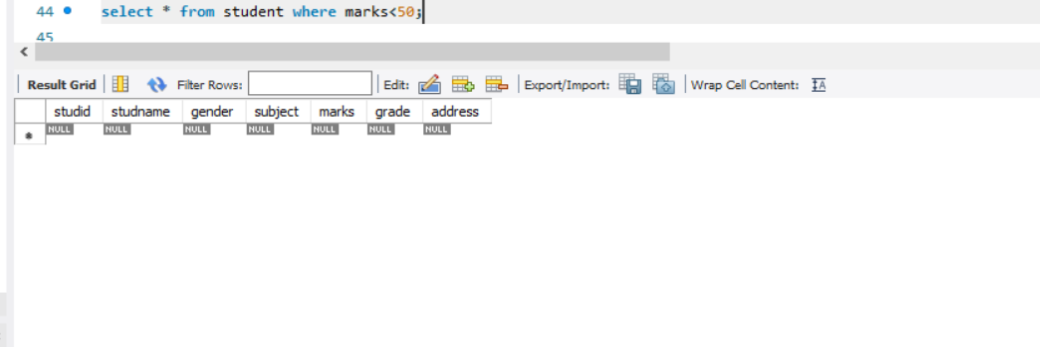
1. Display 1 to 5 students details



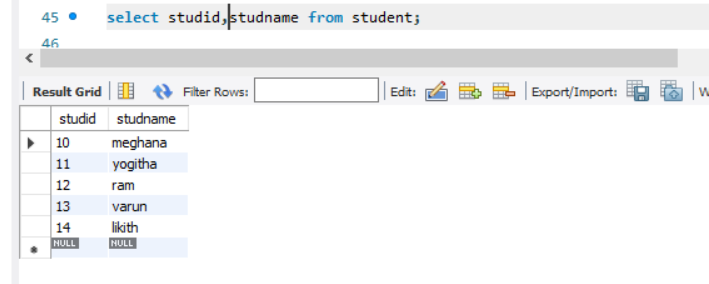
2. Display who got grade A



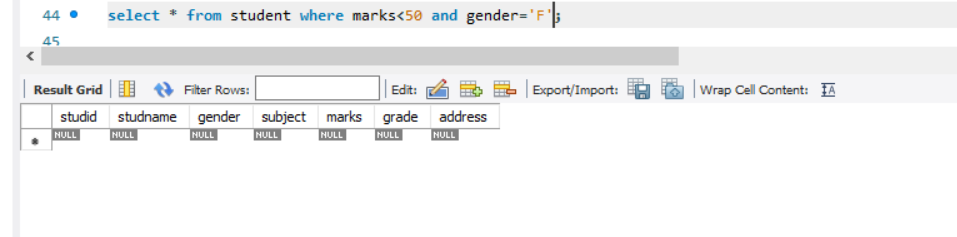
3. Display whose marks is less than 50



4. Display student id and name



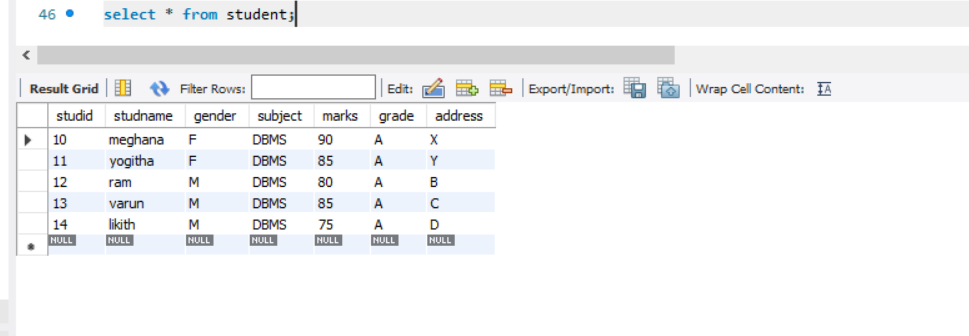
5. Display the student id and name whose mark is 50 to 60 and female.



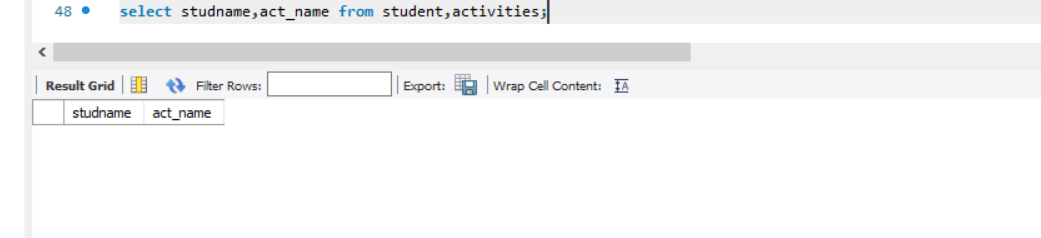
6. Display the list of students who gets greater than 70



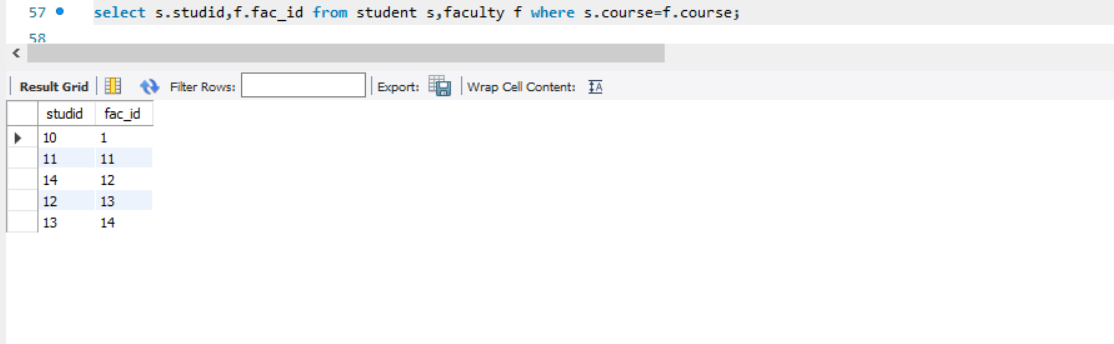
7. Delete the failure students and display complete table.



8. Display activity id, name using object



9. Add course to student table then insert values .Display student id, faculty id using course name condition with object



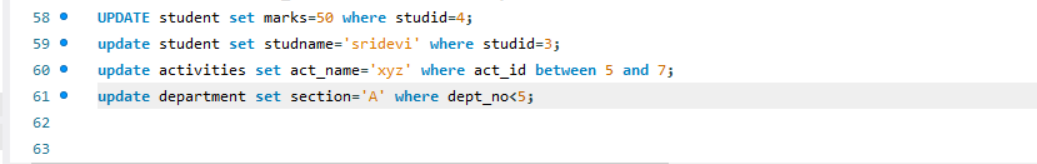
Activity – 5

1. Change mark to 50 whose id is 4

2. Change name whose id is 3

3. Change activity name whose id between 5 to 7

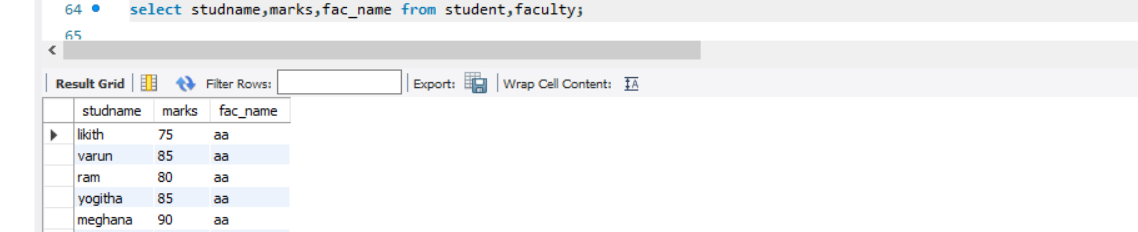
4. Change department section to A whose id is less than 5



5. Delete row who has id = 3

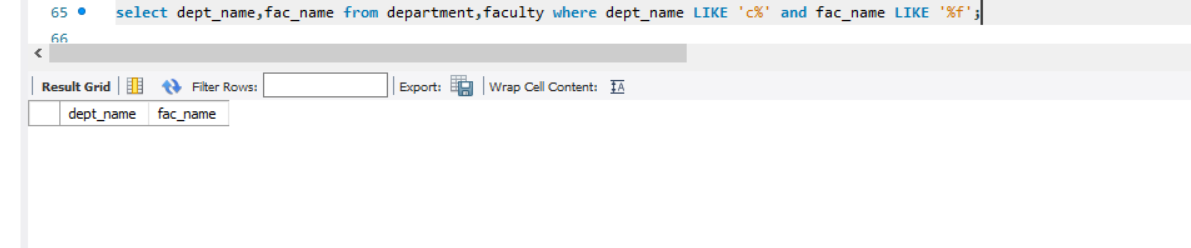
C:\Users\ASUS\Desktop\del.png

6.Select student name and mark from student and faculty name from faculty

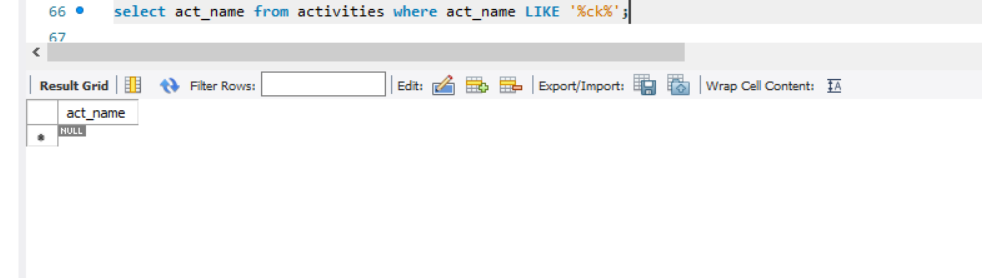


Activity – 6

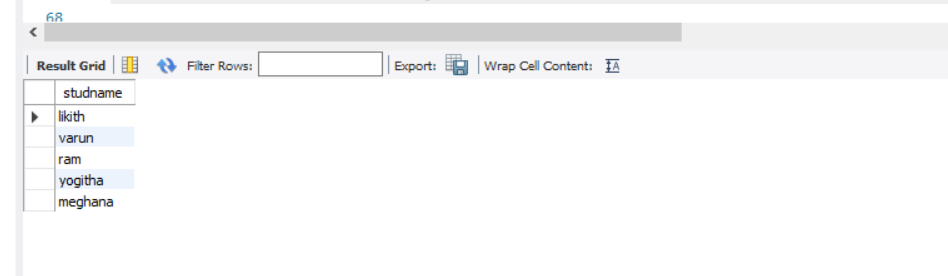
1. Select department starts from ‘c’ and faculty name ends with f



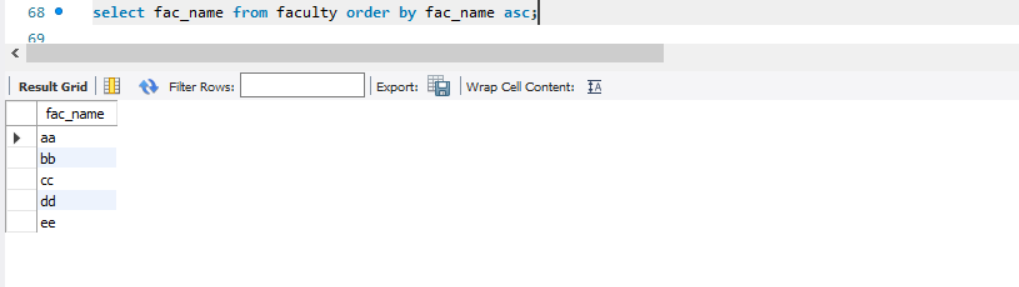
2. Select activity having characters between ‘ct’



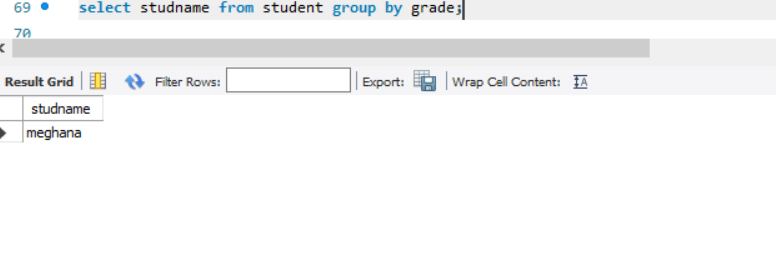
3. Display students list descending order of student id



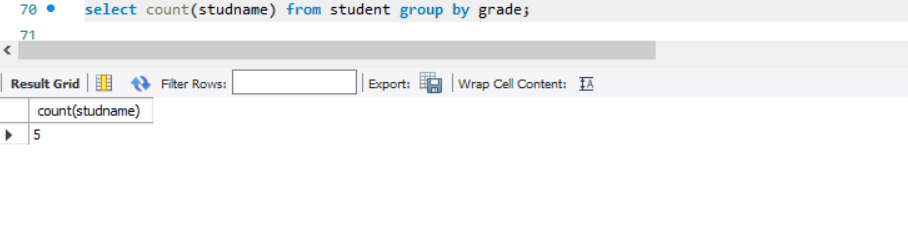
4. Display faculty name ascending order



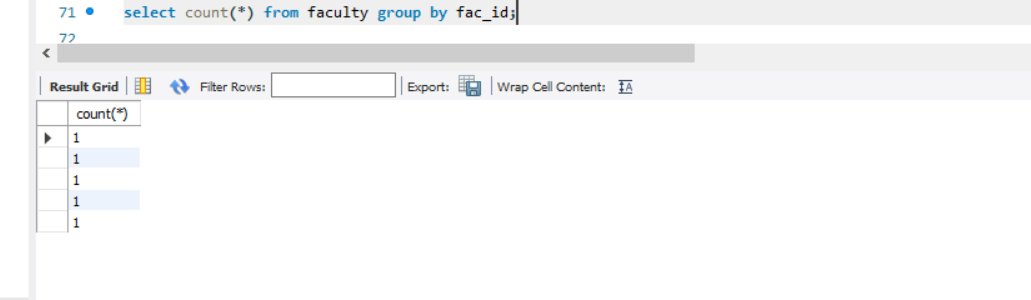
5. Display students list based on grade



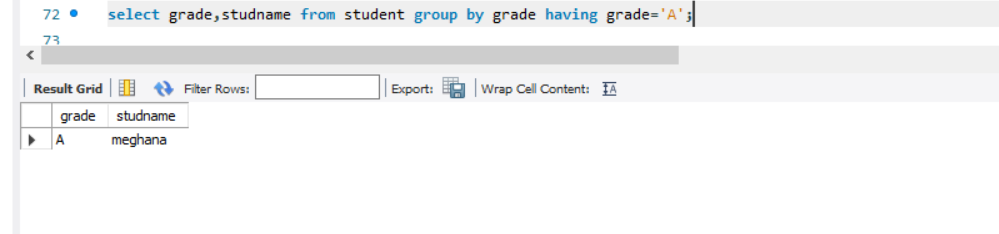
6. Display students having grade a using group by



7. Group by faculty id and display



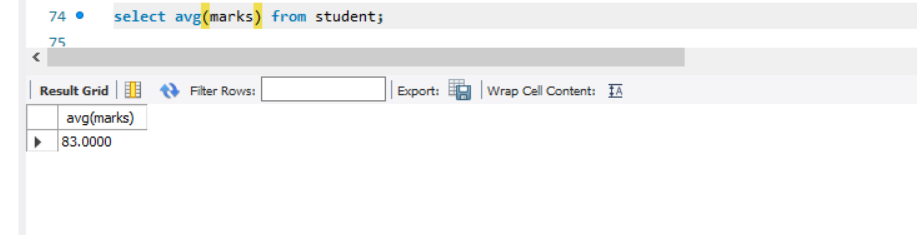
8. Display the students list whose grade is A using having

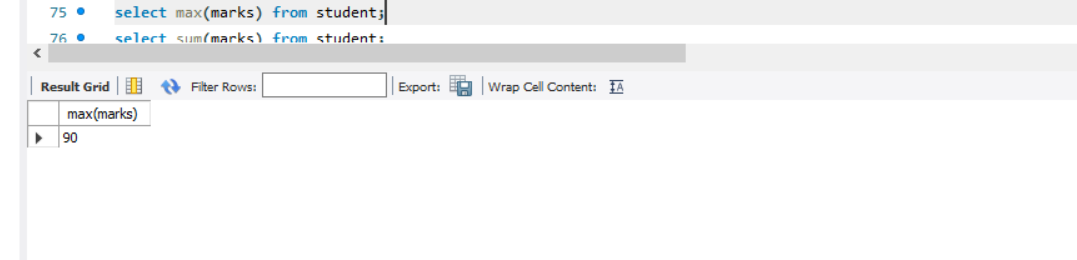


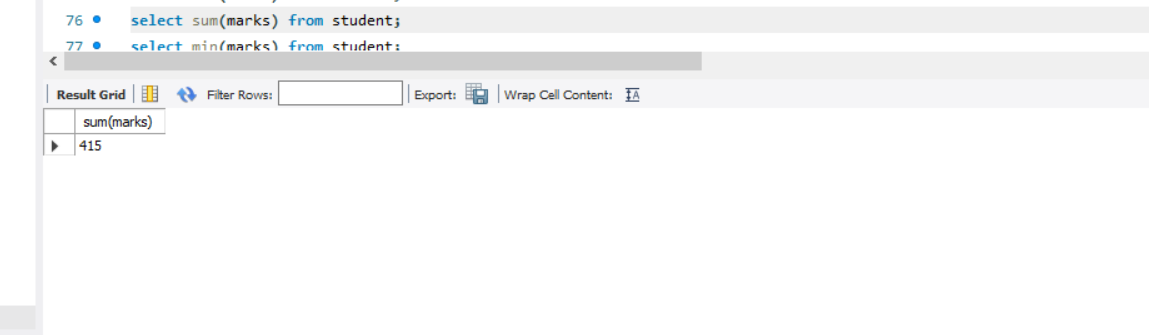
9. Display the faculty list who are teaching subject pps

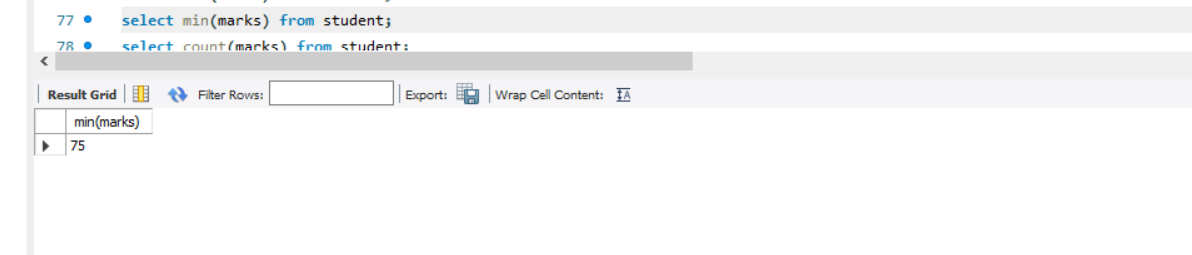


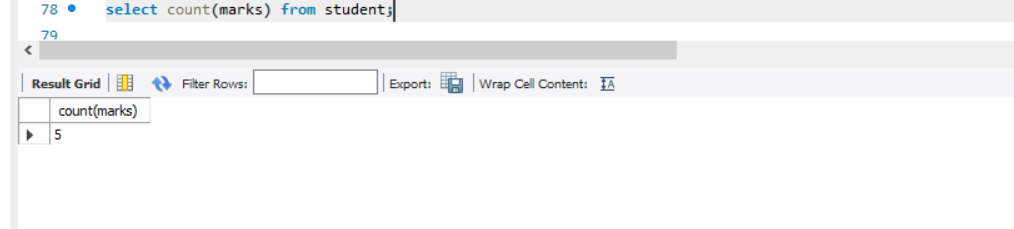
10. Apply aggregate functions in students marks- min, max, sum, count, avg





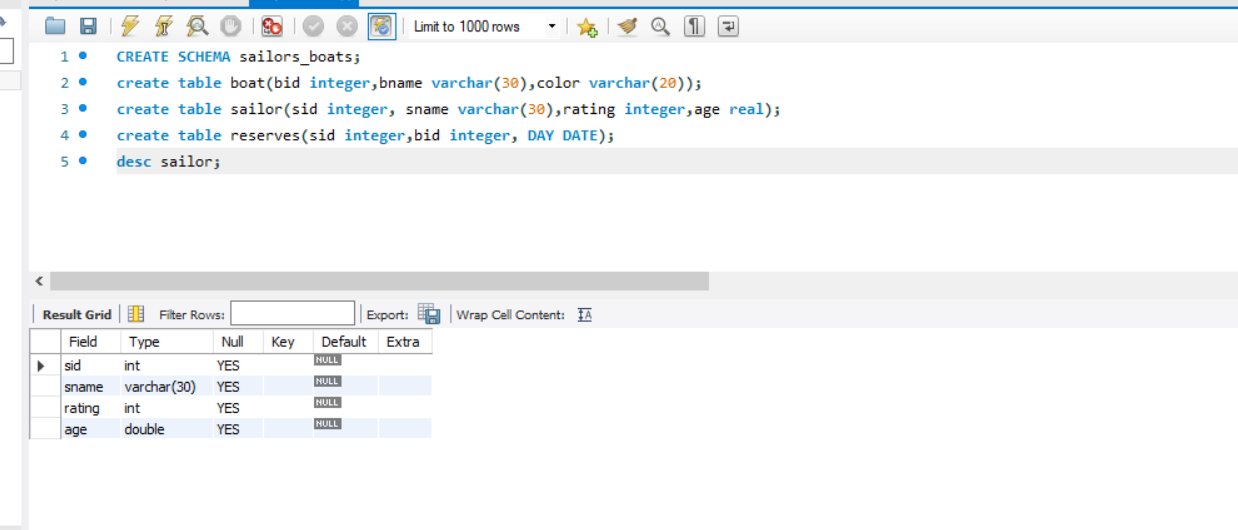


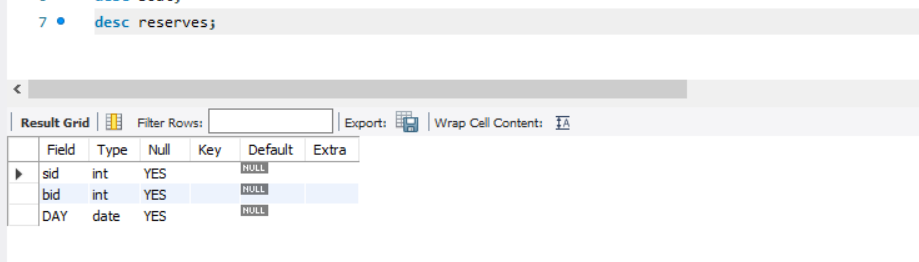


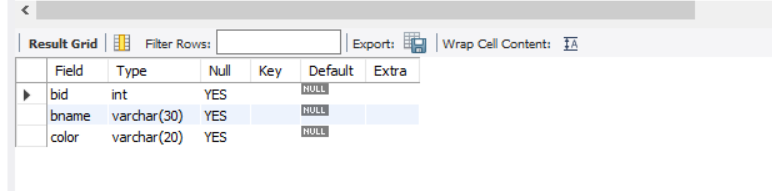


Experiment-8

1. Create a tables for sailors, boats and reserves

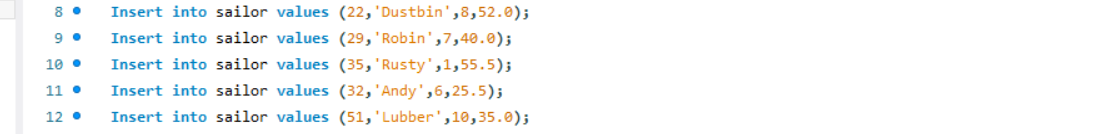




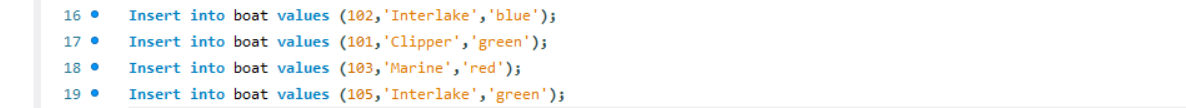


2. Insert 5 values in each table

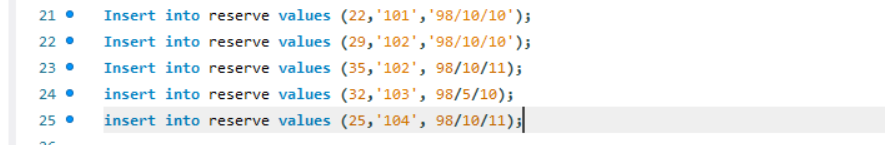
Sailor table:



Boat table:

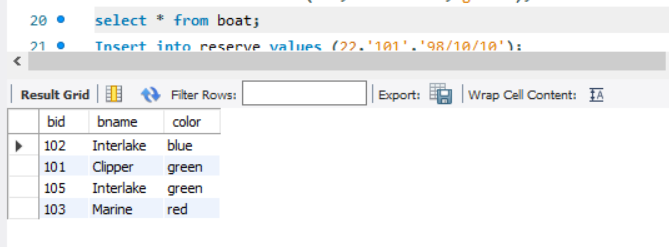


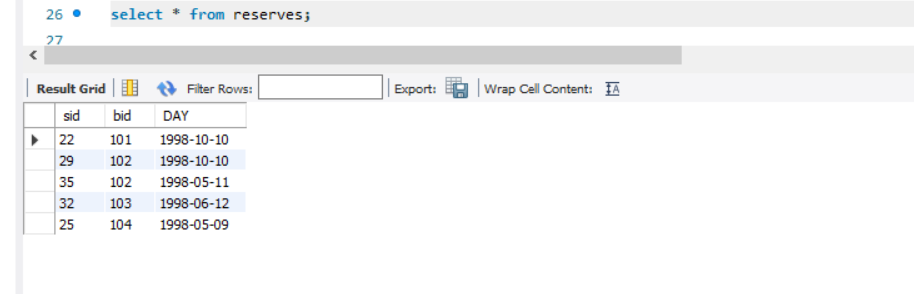
Reverse table:



3. Display all records



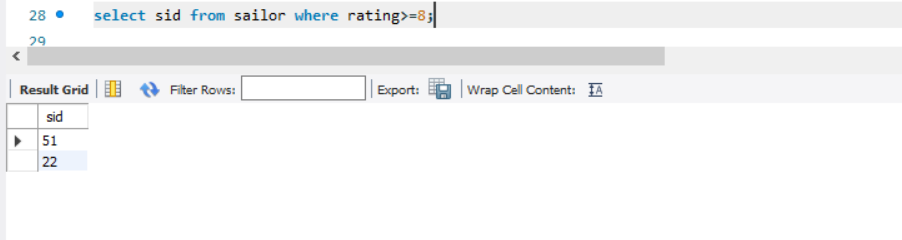


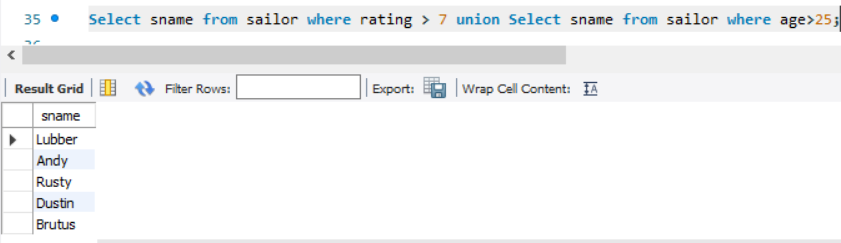


4. Find the names and ages of the sailors

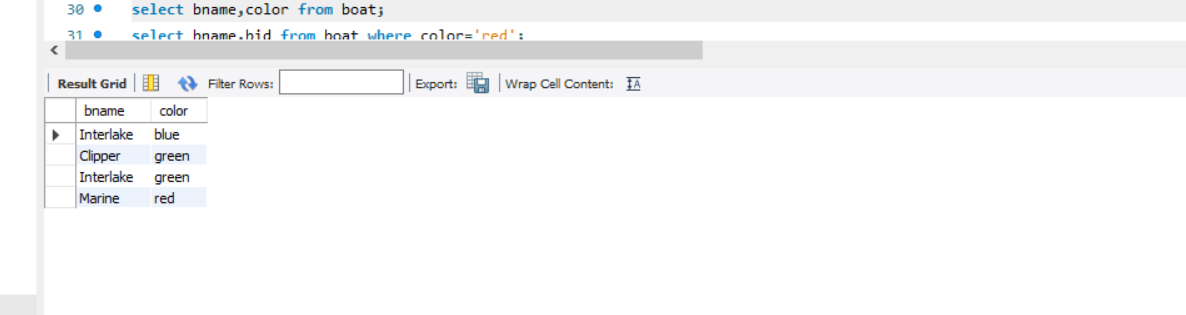


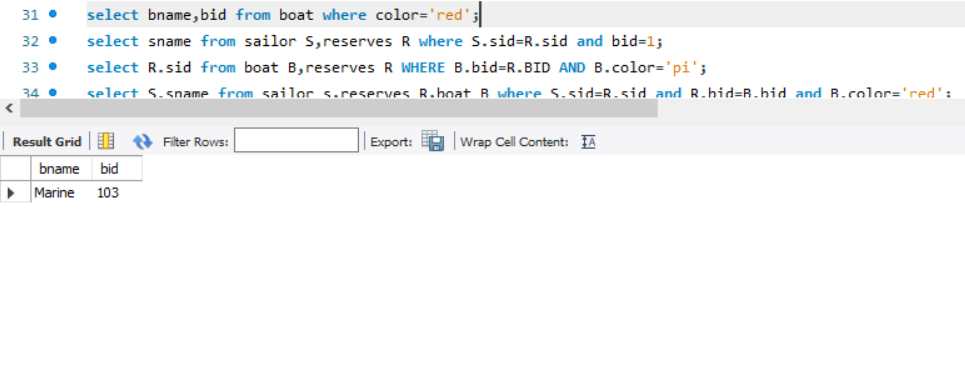
5. Find all the sailors with a rating above 8



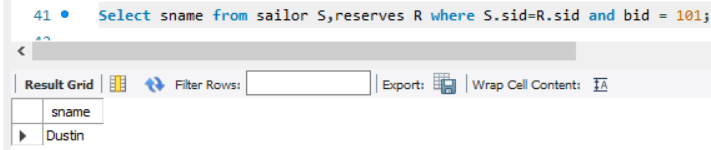
6. Find all sailors name with rating above 7 & age above 25

7. Display all the names and colors of the boat

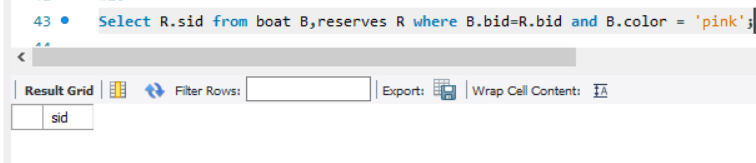


8.Find all the boats with red color 

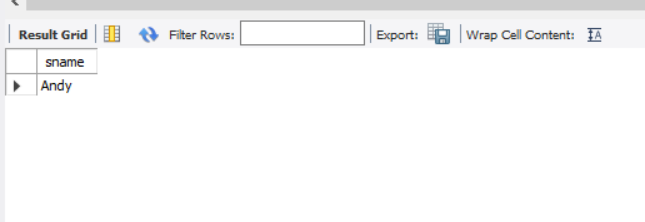
9. Find the names of sailors who have reserved boat number 101



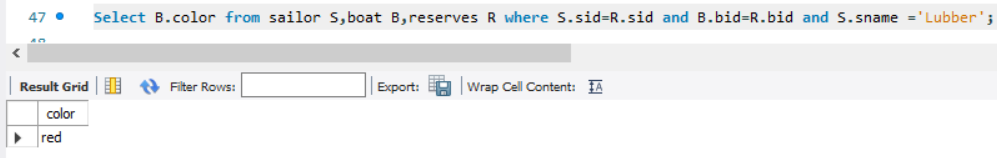
10. Find the sids of sailor who have reserved pink boat



11. Find names of sailors who have reserved red boat



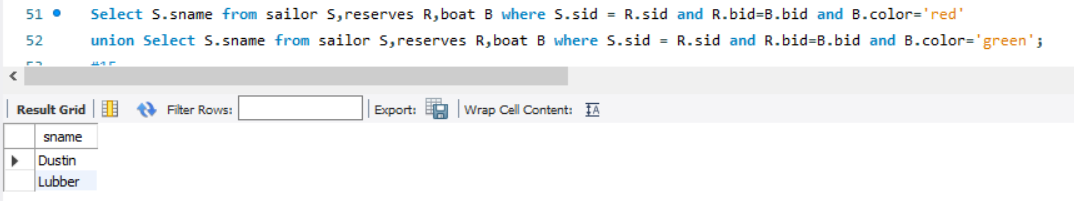
12. Find the colors of boat reserved by same name(provide any name in the table)



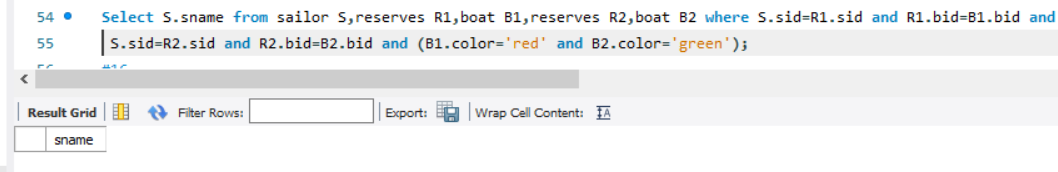
13. Find the names of the sailors who have atleast one boat



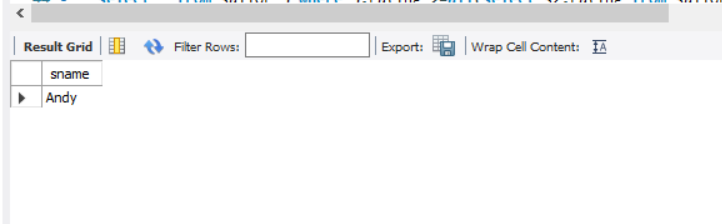
14. Find the names of the sailor who have reserved two different boats



15.Find the names of the sailors who have reserved a red or a green boat



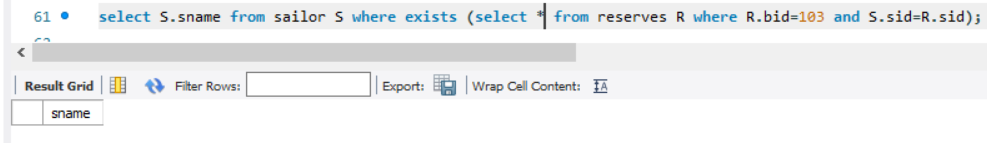
16. Find the names of sailors who have reserved boat 3



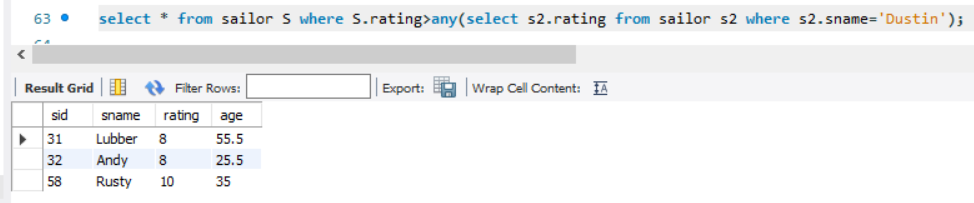
17. Find the names of sailors who have not reserved a red boat(nq)



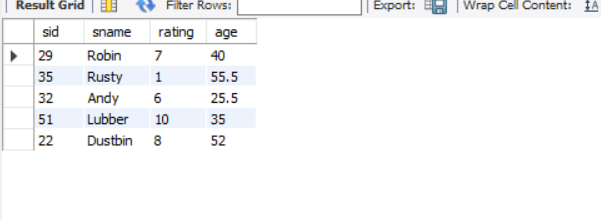
18. Find the names of sailors who have reserved boat number 103(exists)



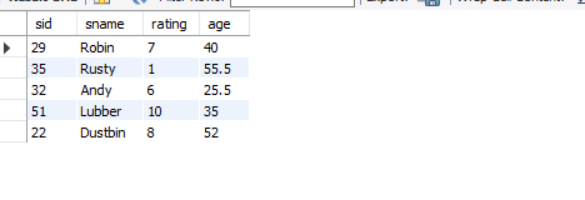
19. Find the sailors whose rating is better than some sailor called name



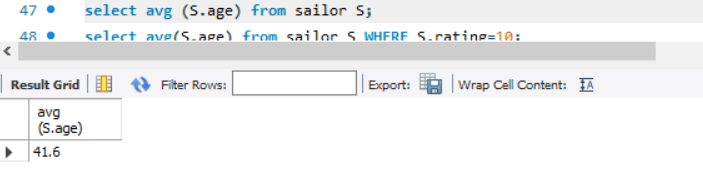
20.Find sailors whose rating is better than every sailor called name



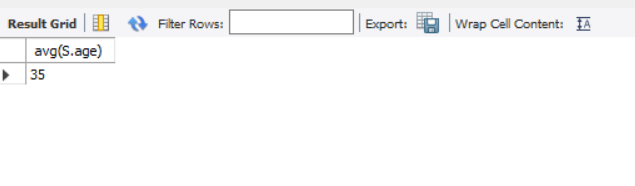
21.Find the sailors with the highest rating.



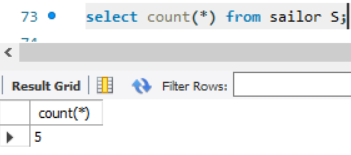
22.Find the average age of all sailors



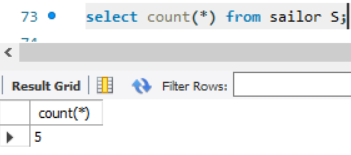
23.Find the average age of sailors with a rating of 10.



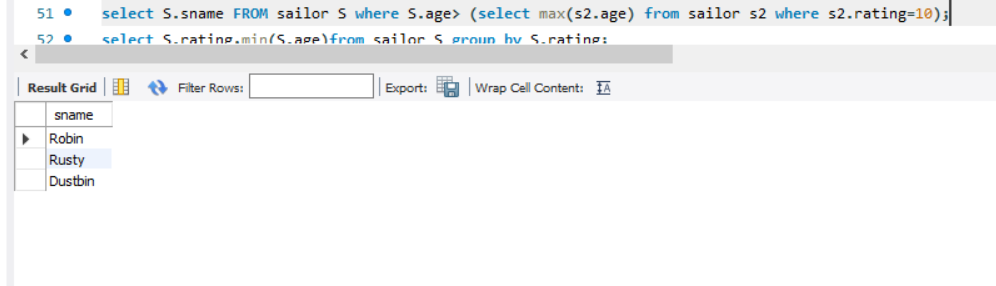
24.count the number of sailors



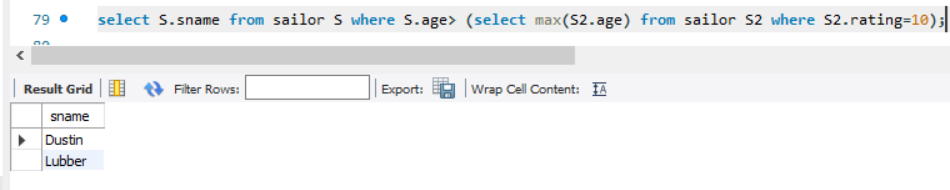
25.count the number of different sailor ratings



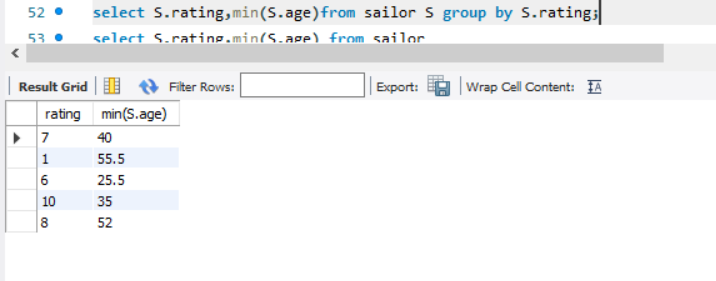
28.find the name and age of the oldest sailor



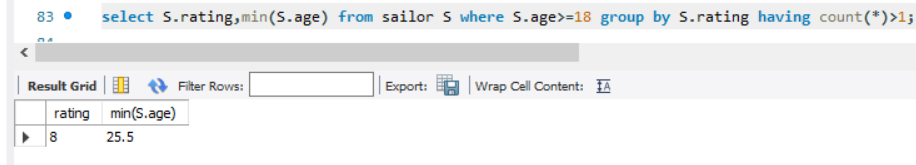
29.find the name of sailors who are older than the oldest sailor with a rating of 10.



30.find the age of the youngest sailor for each rating level.



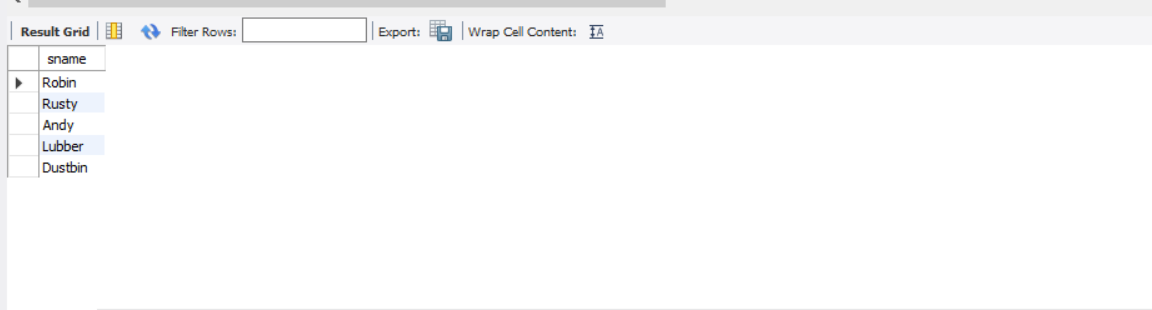
31.find the age of the youngest sailor who is eligible to vote(I.e.,atleast 18 years old)for each rating level with atleast two such sailors.



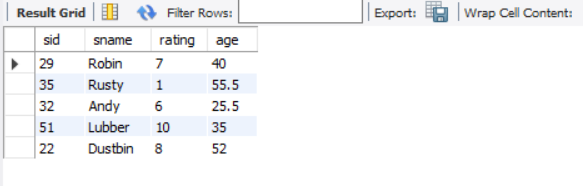
32.for each red boat,find the number of reservation for this boat.



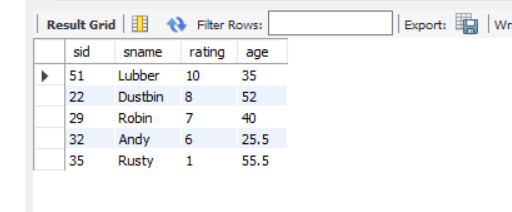
33.find all sailors name according to names.



34.find all sailors details according to rating



35.find all sailors details according to rating (highest first),if ratings are same then according to age.

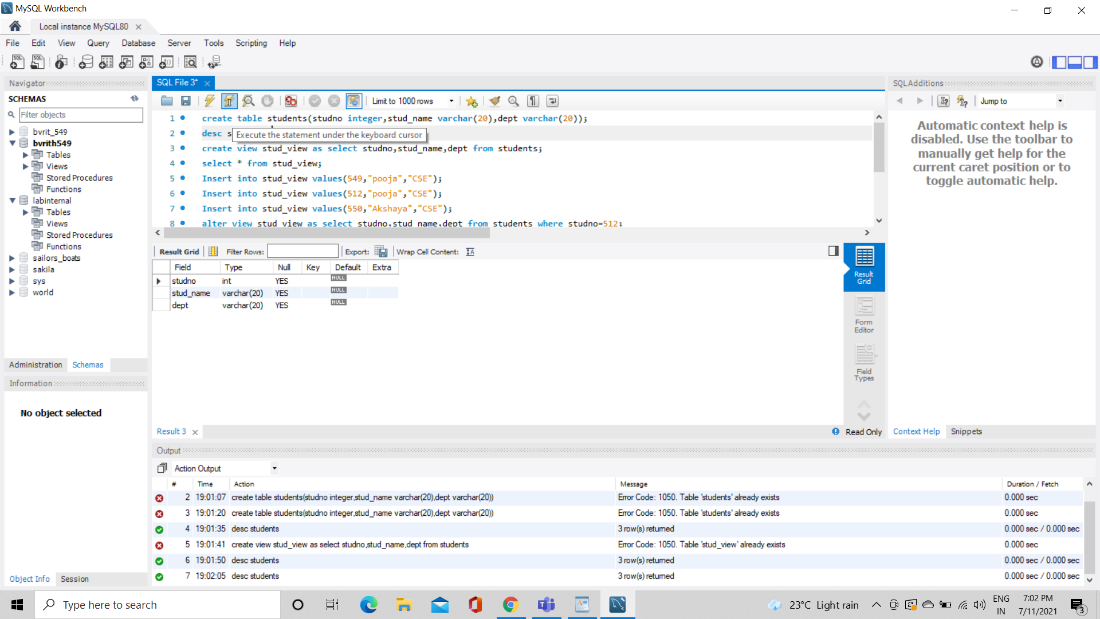


Experiment-9

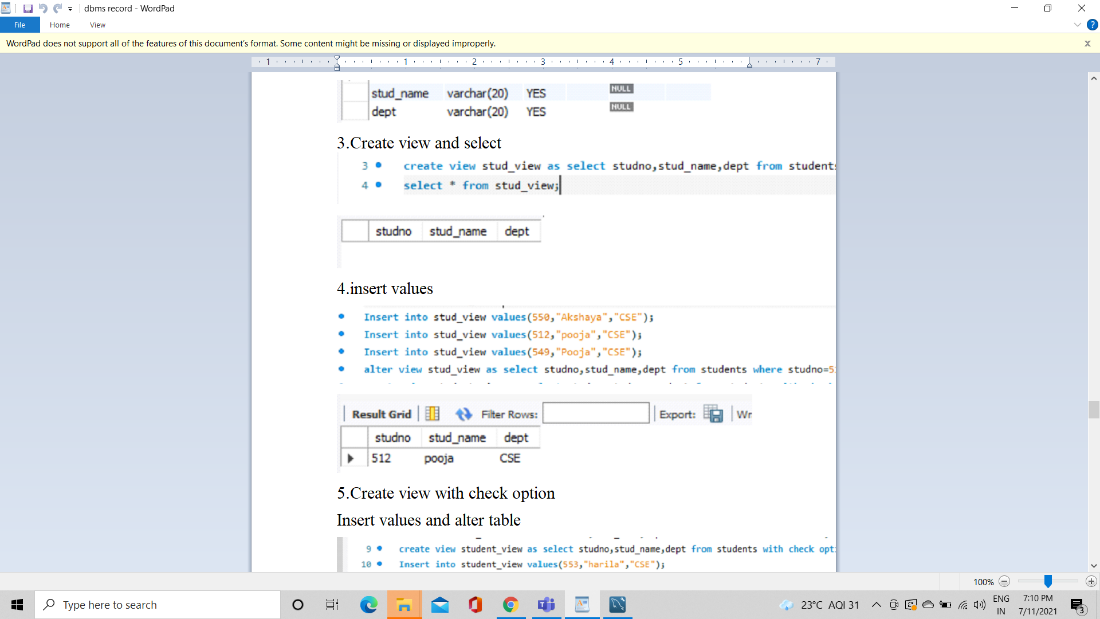
Views

1. Create a table student attributes stdno, name, dept

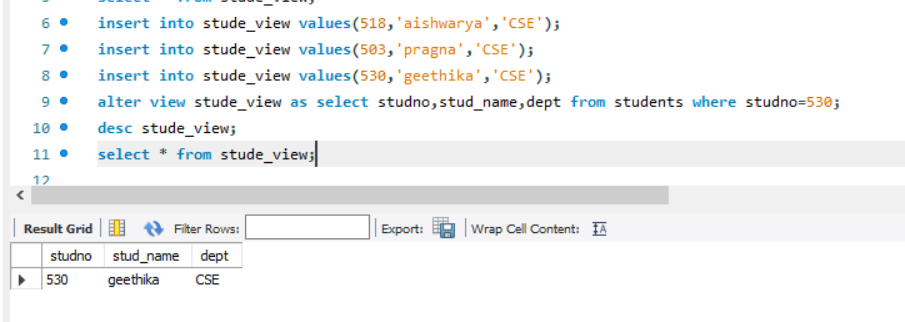
2. Display



3. Create view and select

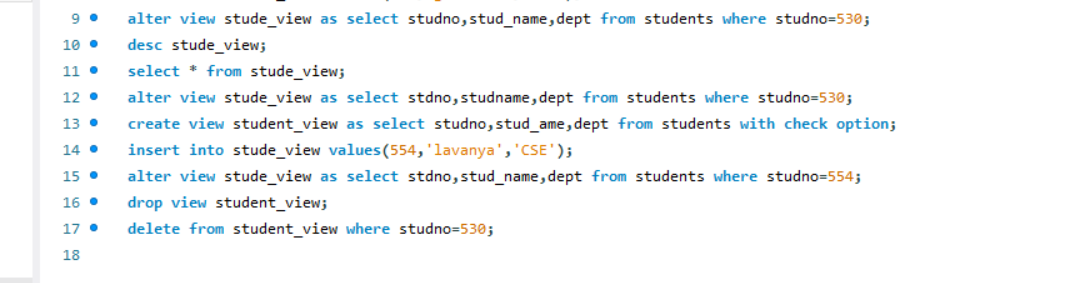


4. Insert values



5. Create view with check option

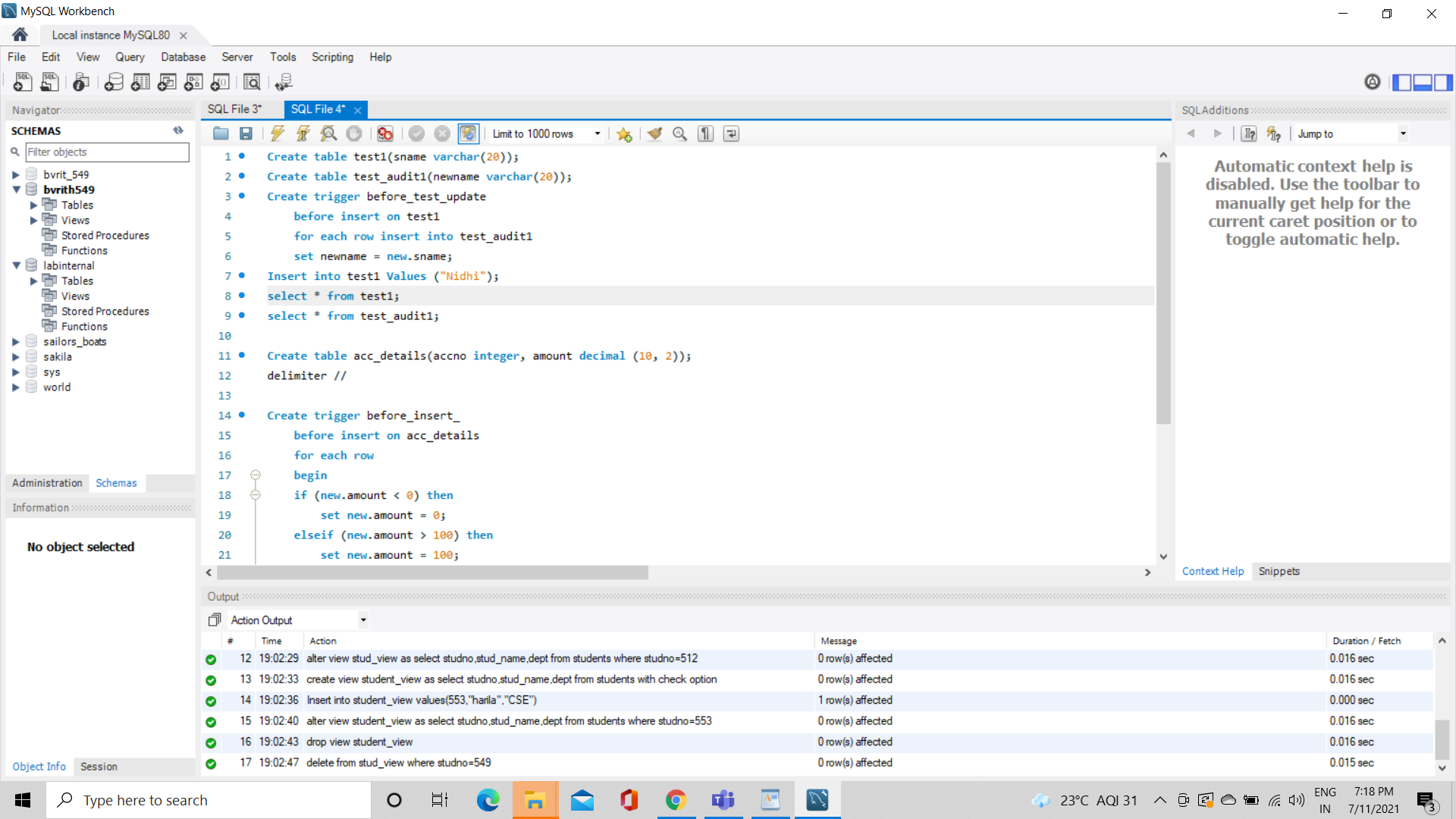
Insert values and alter tables



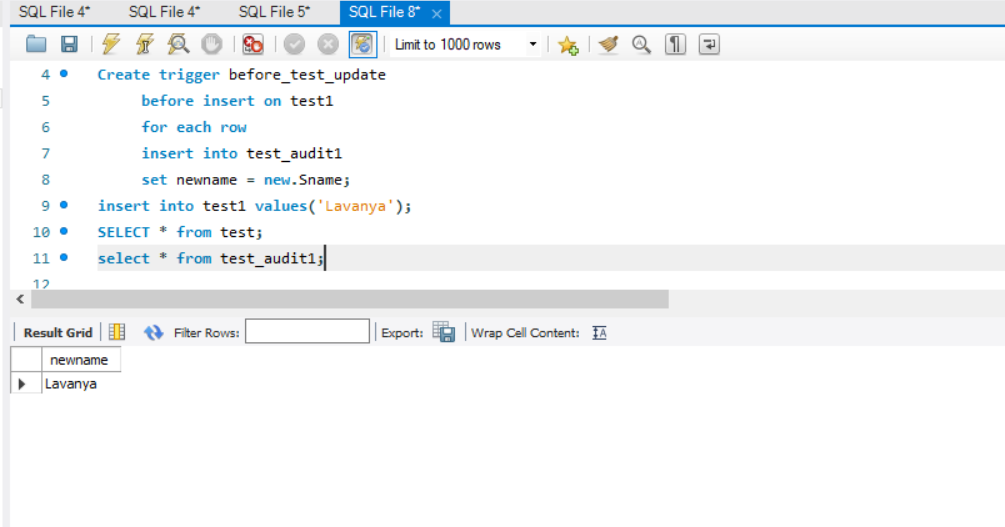
Experiment-10

Triggers

1. Create a table with attribute sname and another table with newname



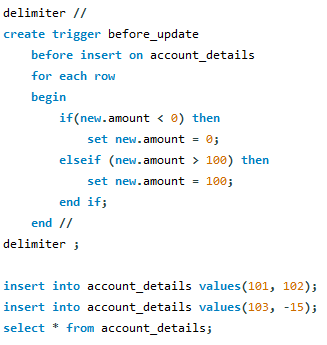
2. Create a trigger to insert second table before inserting the first table

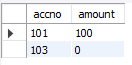


3. Create a table for account details with attributes account number and an amount.



4. Create a trigger to check if amount is negative or greater than zero before inserting to table.



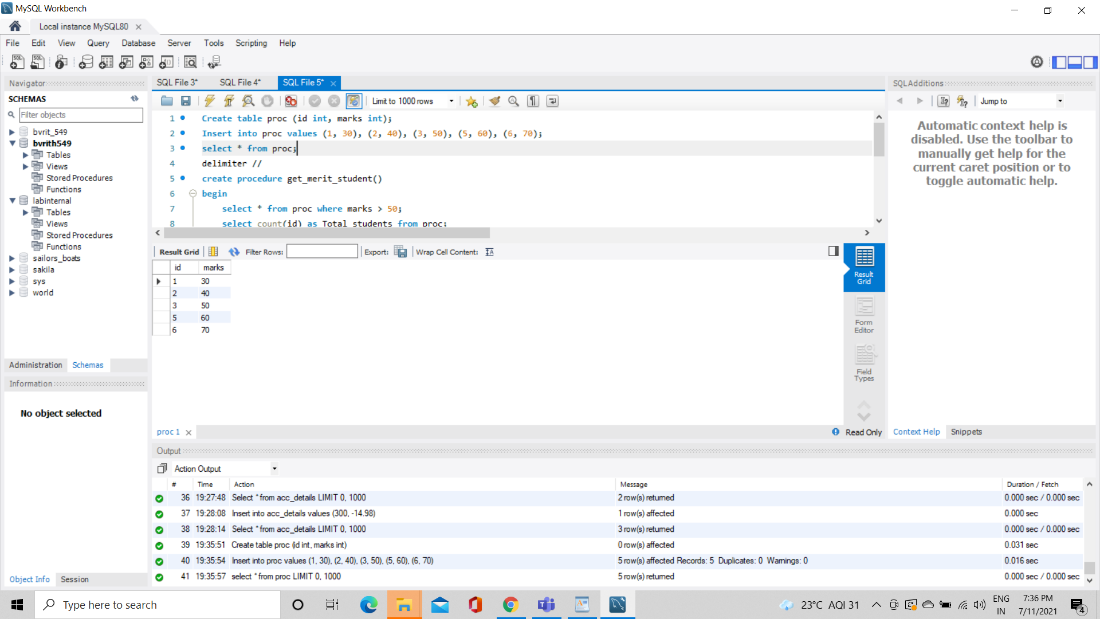


Experiment-11

Procedures

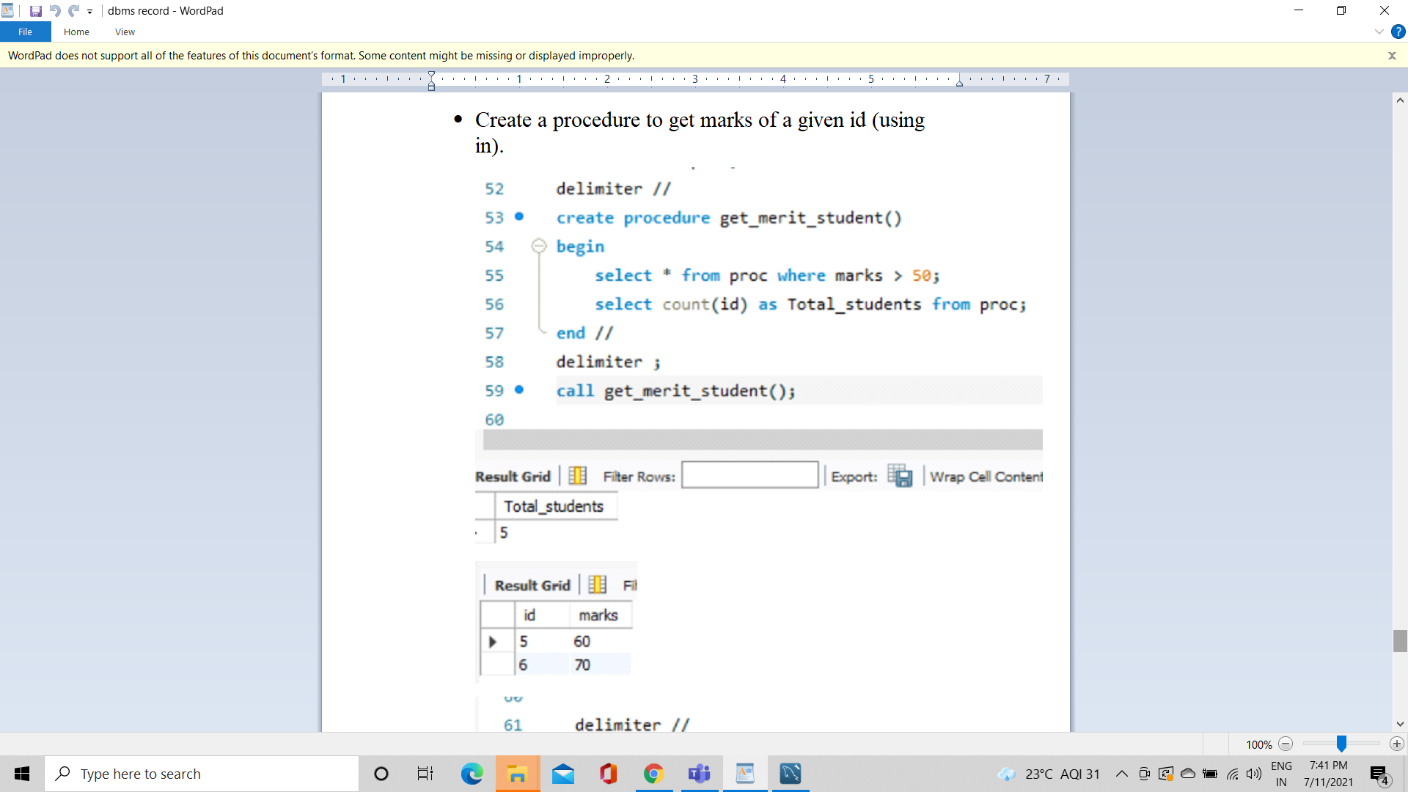
1. Create a table with attributes students and marks

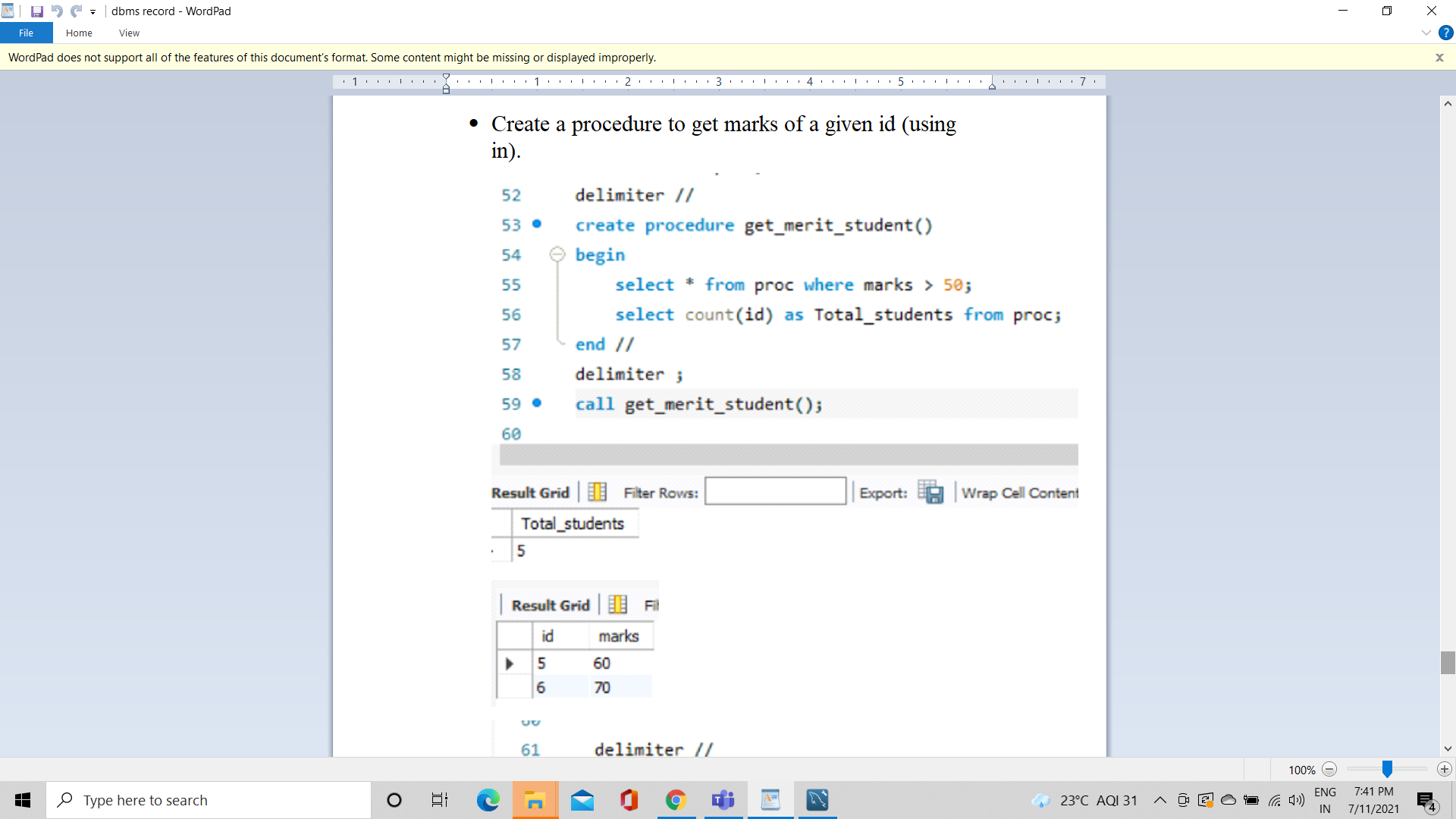
Insert values into tables

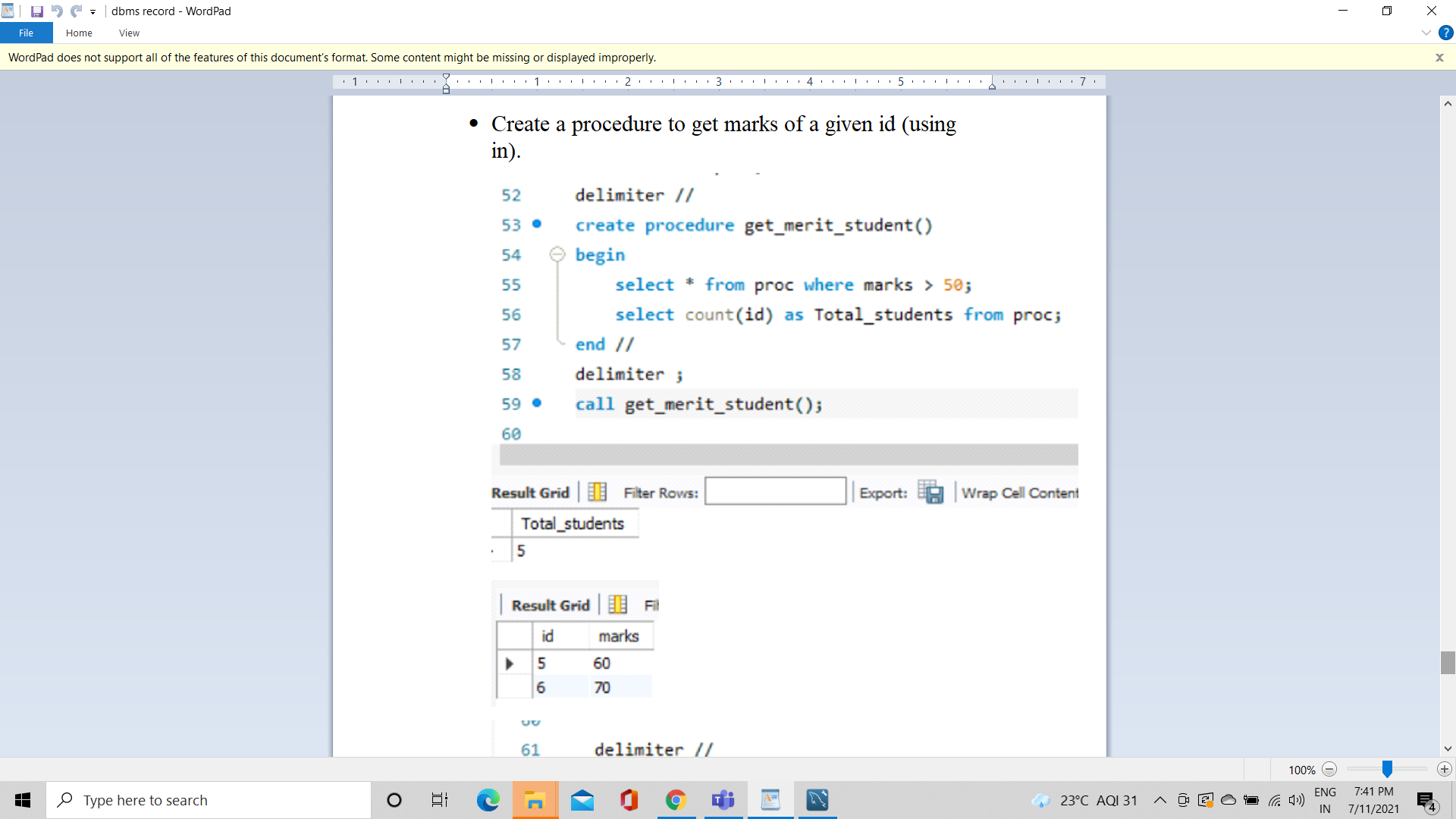


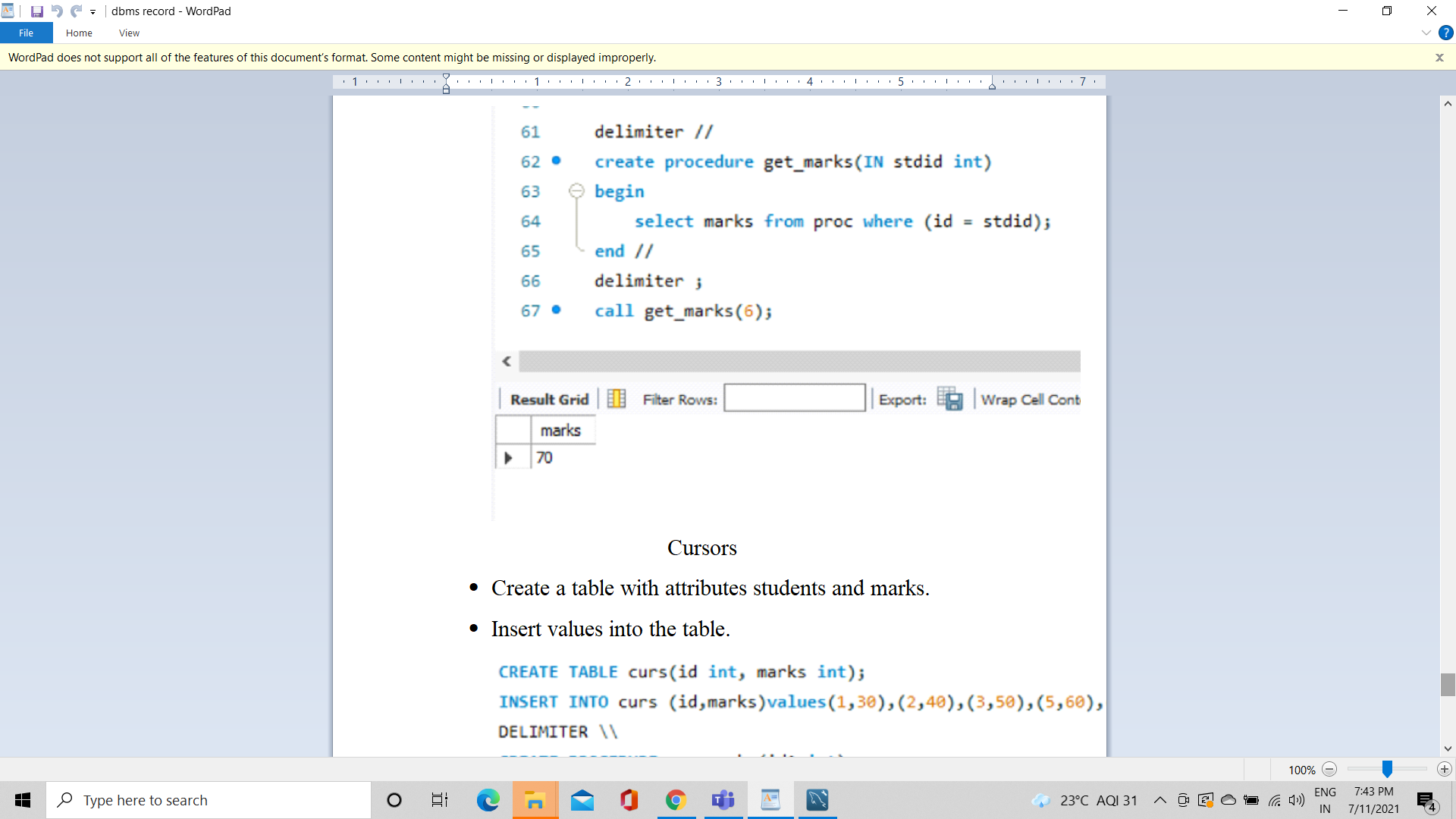
2. Create a procedure to get the merit students(marks>50)

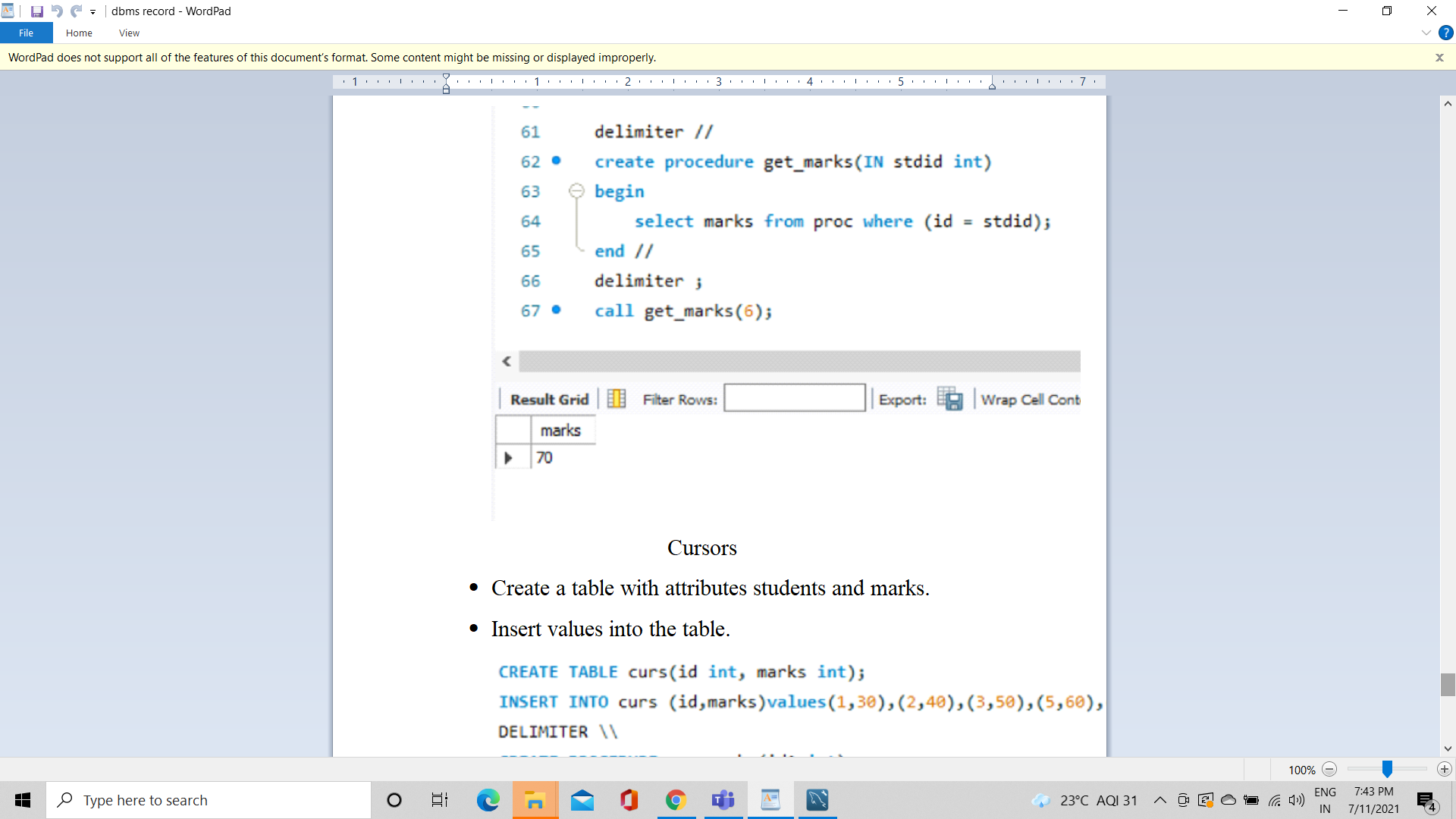
3. Create a procedure to get marks of a given id(using in)









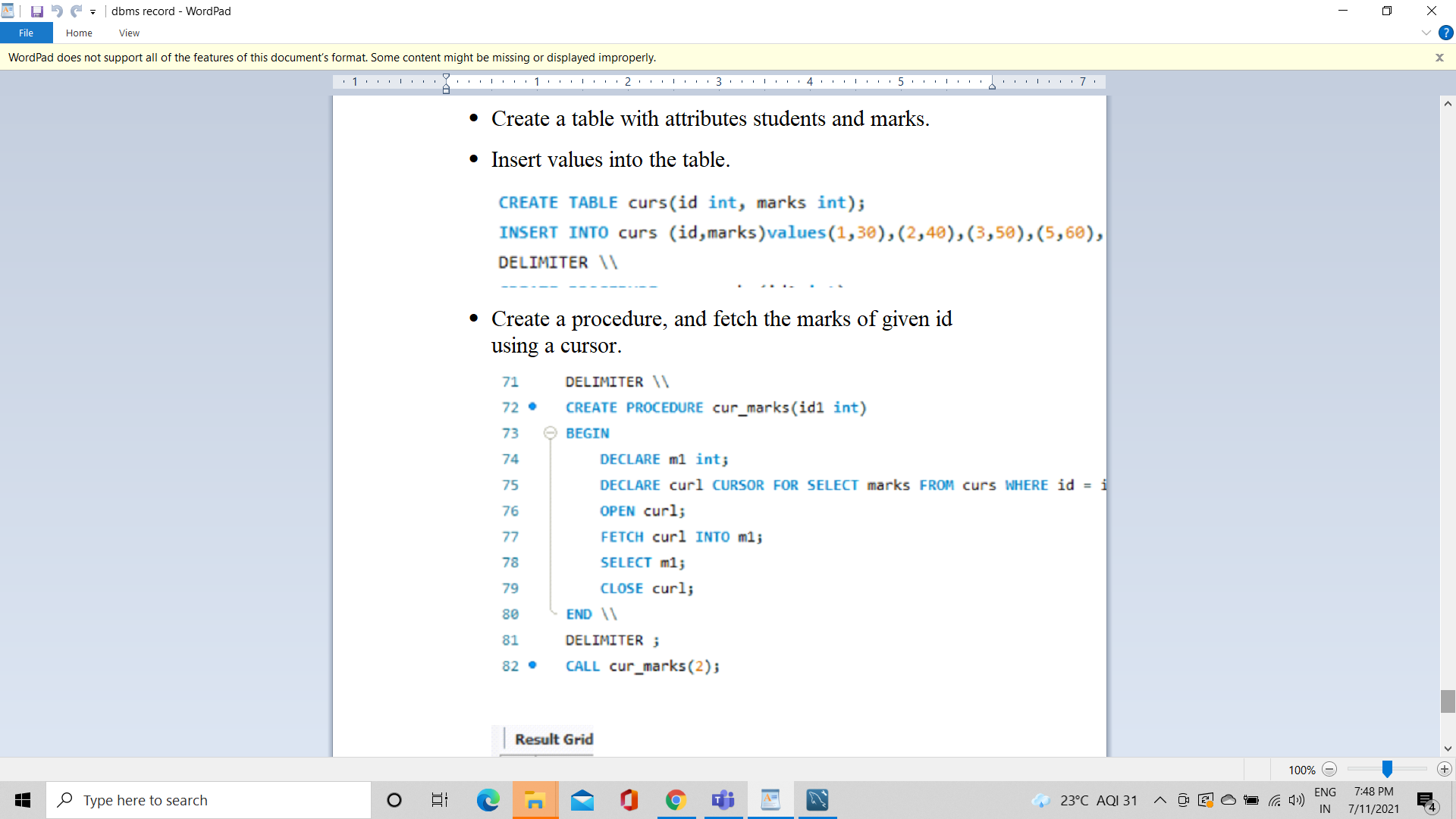


Experiment-12

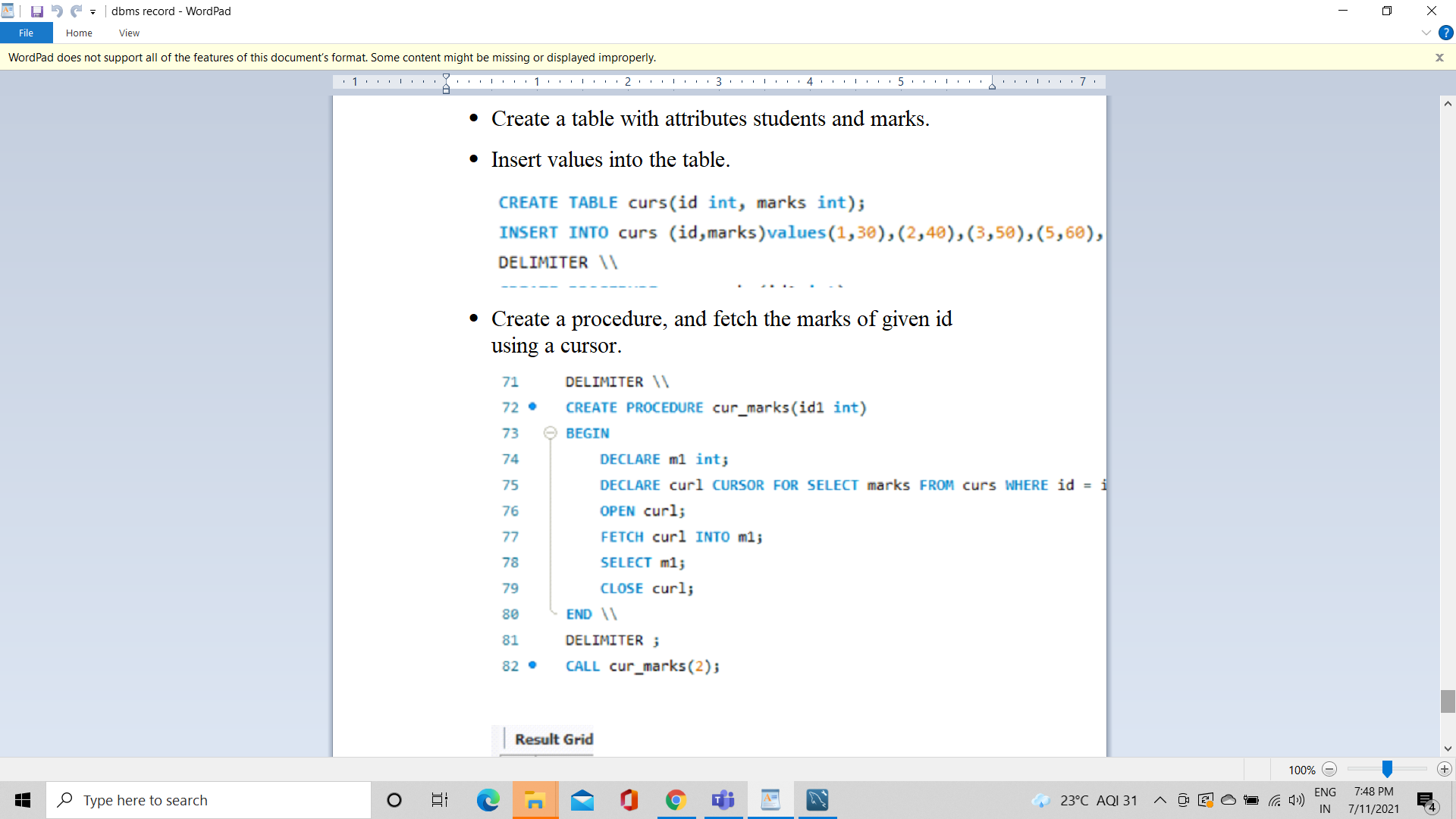
Cursors

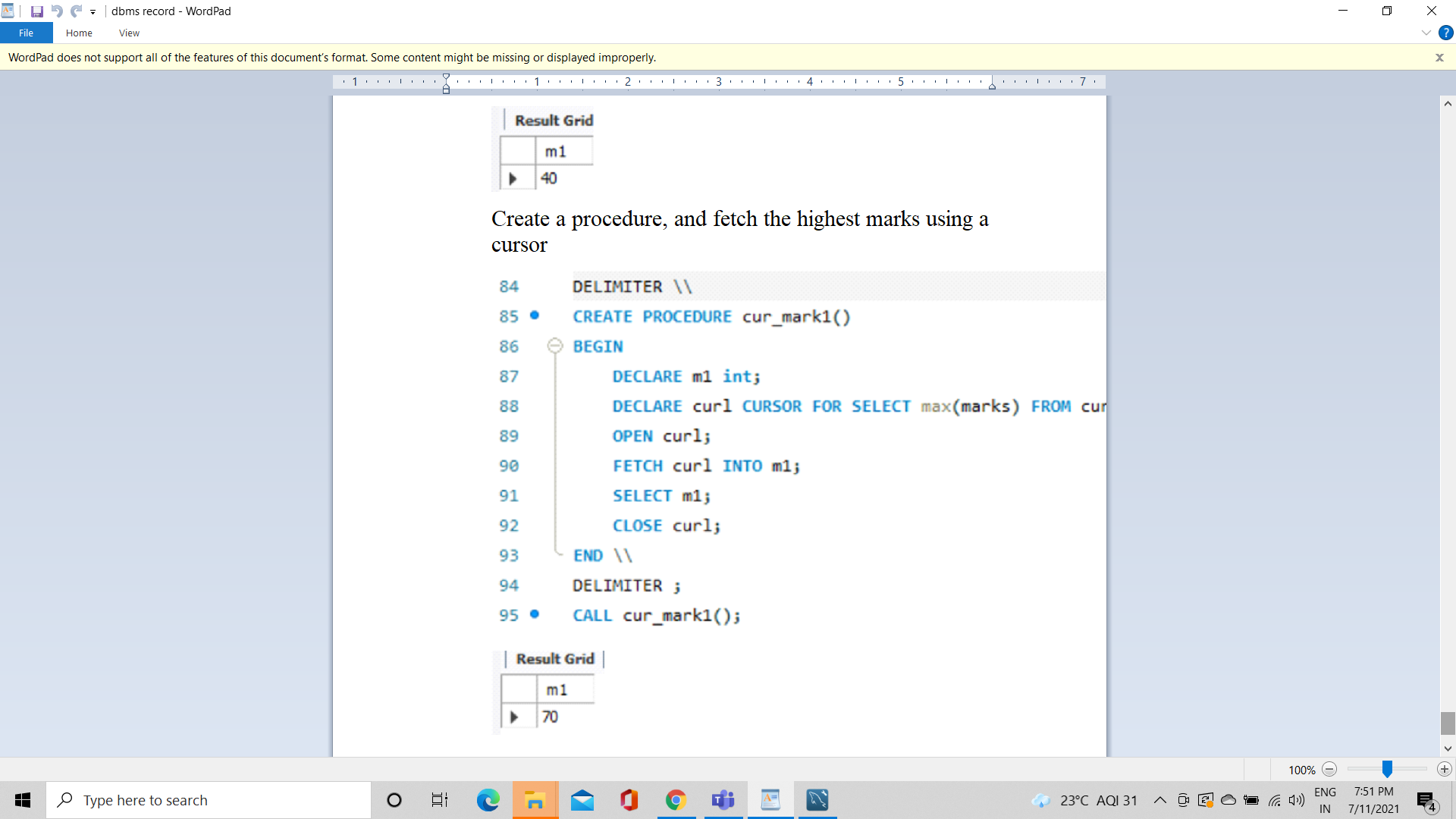
1.Create a table with attributes students and marks

2.Insert values into tables



3. Create a procedure and fetch the marks of given id using a cursor





4. Create a procedure and fetch the highest marks using a cursor

