**WhB\_18 DAYAL ADITYA KISHOR**

**Assignment No. 8**

**Title:**

Study and Implementation of PL/SQL

**Problem Statement:**

1. Create table student(rollno, name, percentage). Insert suitable records in the table. Write a PL/SQL block of code for the following requirements:
   * Accept rollno from user
   * Retrieve name and percentage of the student as per follows
   * Calculate grade of that student as per follows  
     Percentage >=80 then grade=A+  
     Percentage>=70 and <80 then grade = A   
     Percentage>=60 and <70 then grade = B+  
     Percentage>=50 and <60 then grade = B  
     Percentage>=40 and <50 then grade = C  
     Percentage below 40 then grade = fail
   * Print rollno, name, percentage and grade of student
   * Use appropriate control structure and exception handling
2. Write a PL/SQL block for following requirement and handle the exceptions. Roll no. of student will be entered by user. Attendance of roll no. entered by user will be checked in student table. If attendance is less than 75% then display the message “Term not granted” and set the status in Student table as “D”. Otherwise display message “Term granted” and set the status in Student table as “ND”

**Answers:**

**Code 1:**

create table student(roll\_no int primary key, name varchar2(20), percentage float)

insert into student values(01,'Riya',80)

insert into student values(02,'Priya',88)

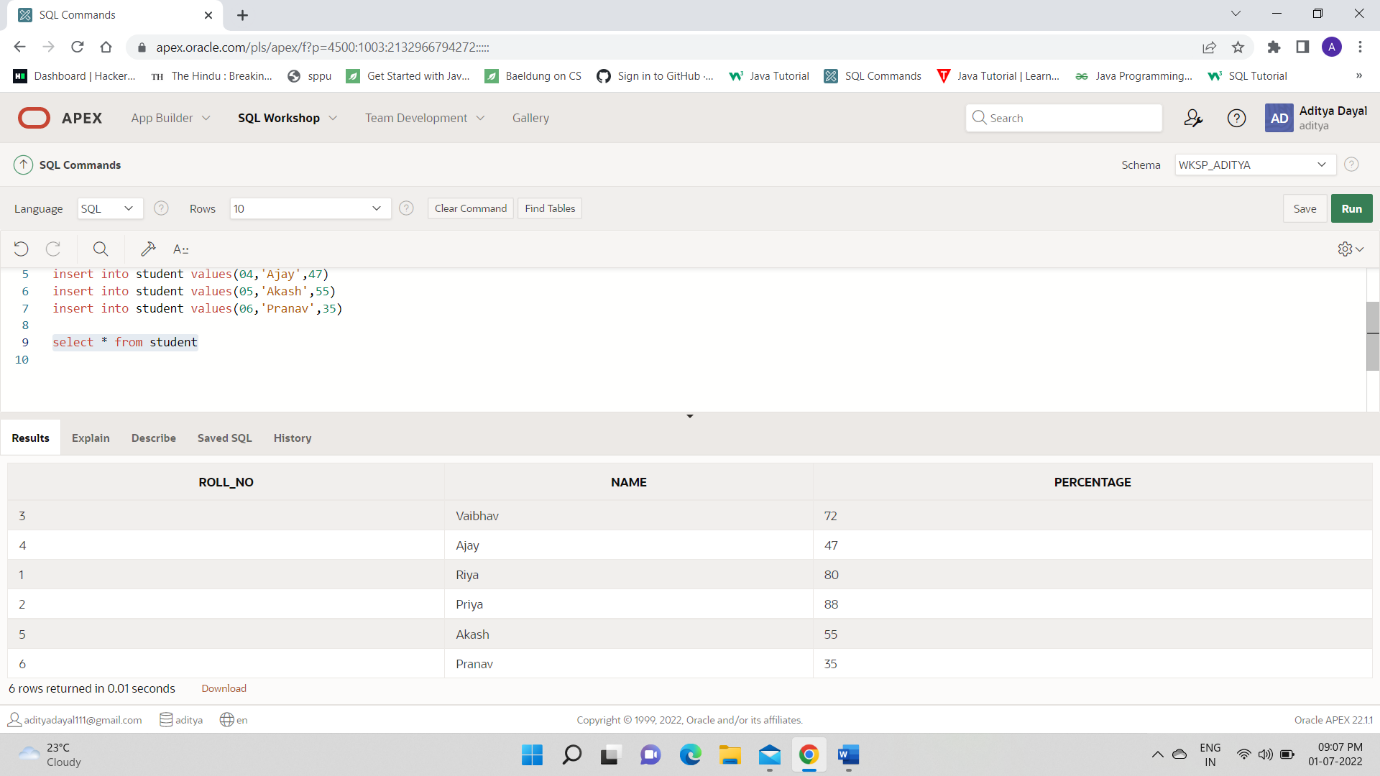
insert into student values(03,'Vaibhav',72)

insert into student values(04,'Ajay',47)

insert into student values(05,'Akash',55)

insert into student values(06,'Pranav',35)

select \* from student



DECLARE

RNO student.roll\_no%type:=:RNO;

Name\_s student.name%type;

Percent student.percentage%type;

BEGIN

select name,percentage into Name\_s,Percent from student where roll\_no=RNO;

dbms\_output.put\_line('Rollno:'||RNO);

dbms\_output.put\_line('Name:'||Name\_s);

dbms\_output.put\_line('Marks:'||Percent);

dbms\_output.put\_line('Grade:');

if Percent >= 80.00 then

dbms\_output.put\_line('A+');

elsif (Percent >= 70.00 and Percent <80)then

dbms\_output.put\_line('A');

elsif( Percent >= 60.00 and Percent <70) then

dbms\_output.put\_line('B+');

elsif (Percent >= 50.00 and Percent <60) then

dbms\_output.put\_line('B');

elsif (Percent >= 40.00 and Percent <50)then

dbms\_output.put\_line('C');

else

dbms\_output.put\_line('Fail');

END IF;

EXCEPTION

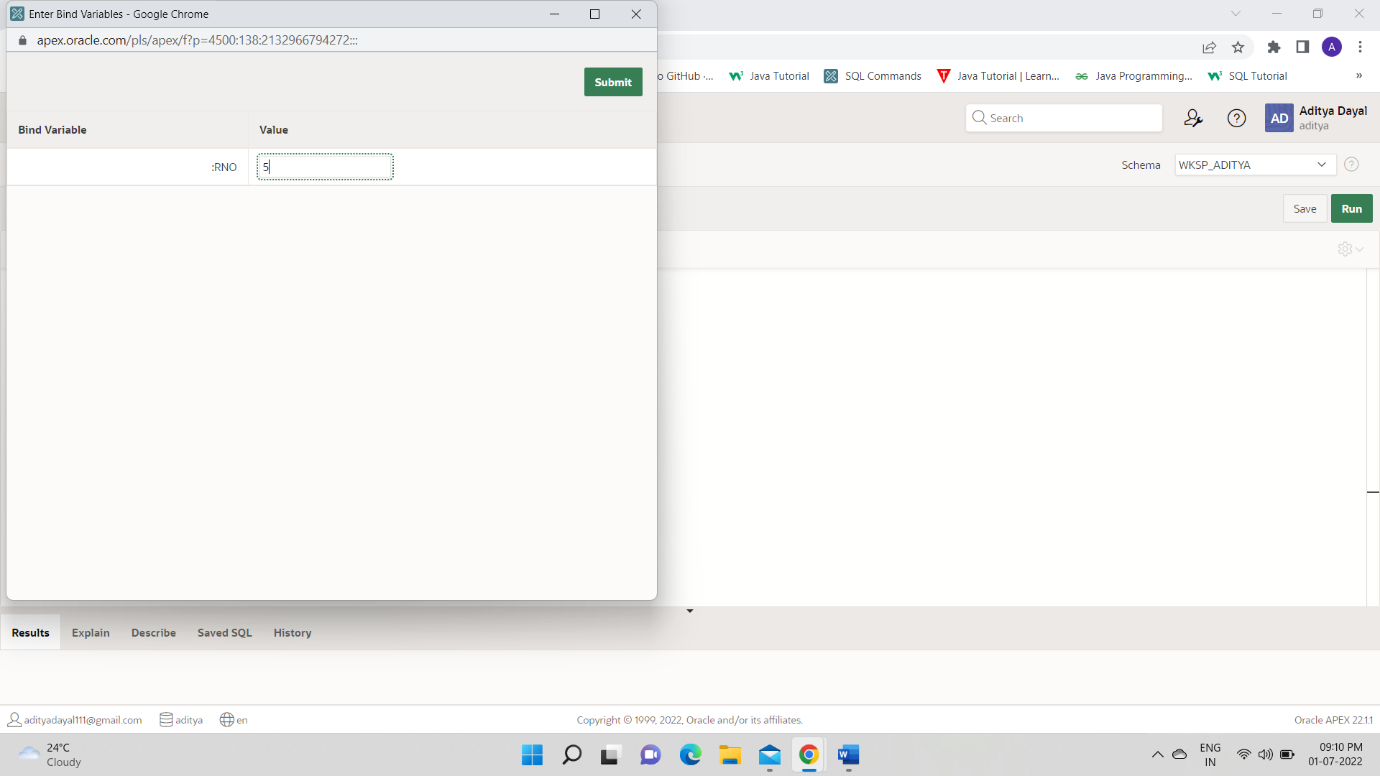
WHEN NO\_DATA\_FOUND THEN

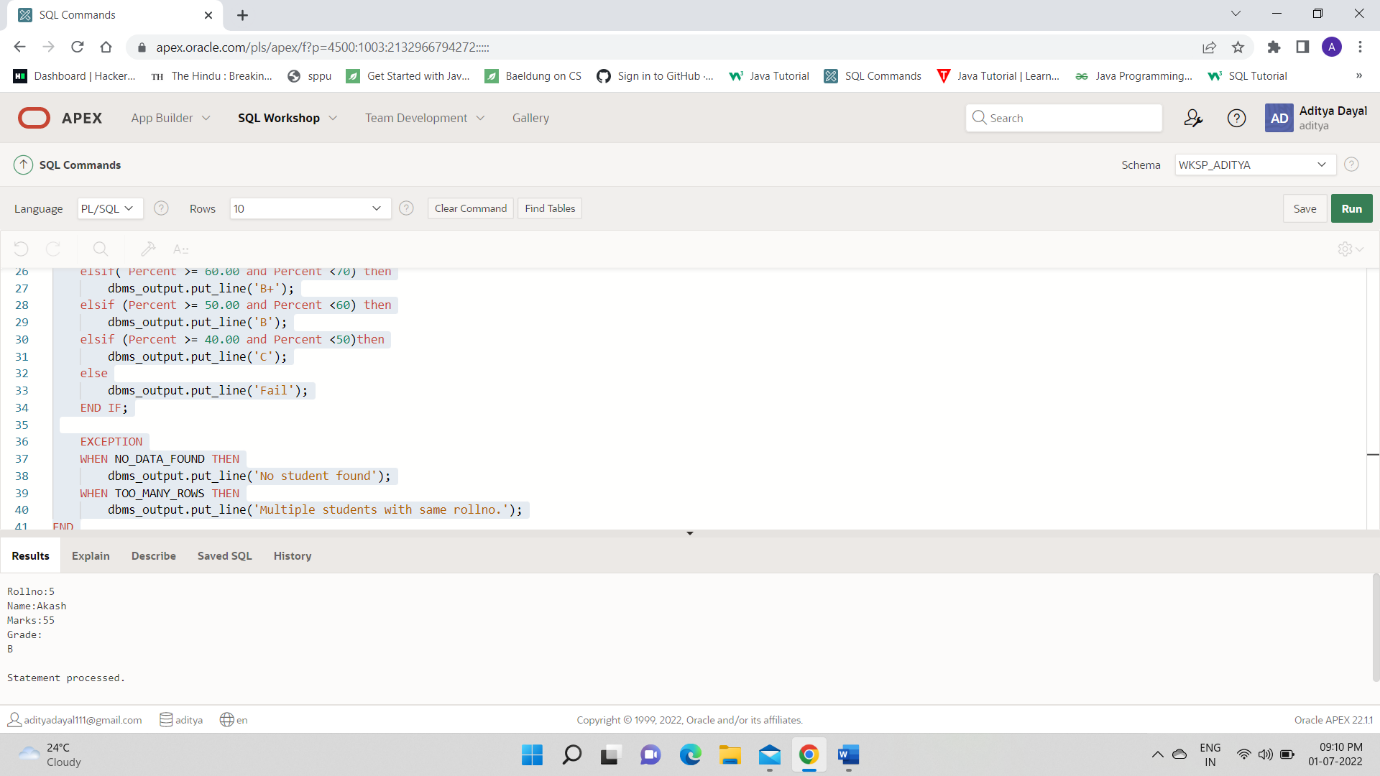
dbms\_output.put\_line('No student found');

WHEN TOO\_MANY\_ROWS THEN

dbms\_output.put\_line('Multiple students with same rollno.');

END





2. Write a PL/SQL block for following requirement and handle the exceptions. Roll no. of student will be entered by user. Attendance of roll no. entered by user will be checked in student table. If attendance is less than 75% then display the message “Term not granted” and set the status in Student table as “D”. Otherwise display message “Term granted” and set the status in Student table as “ND”

Code:

create table student(roll\_no int primary key, name varchar2(20), attendance int, status varchar(20));

insert into student values(01,'Riya',80,'')

insert into student values(02,'Priya',88,'')

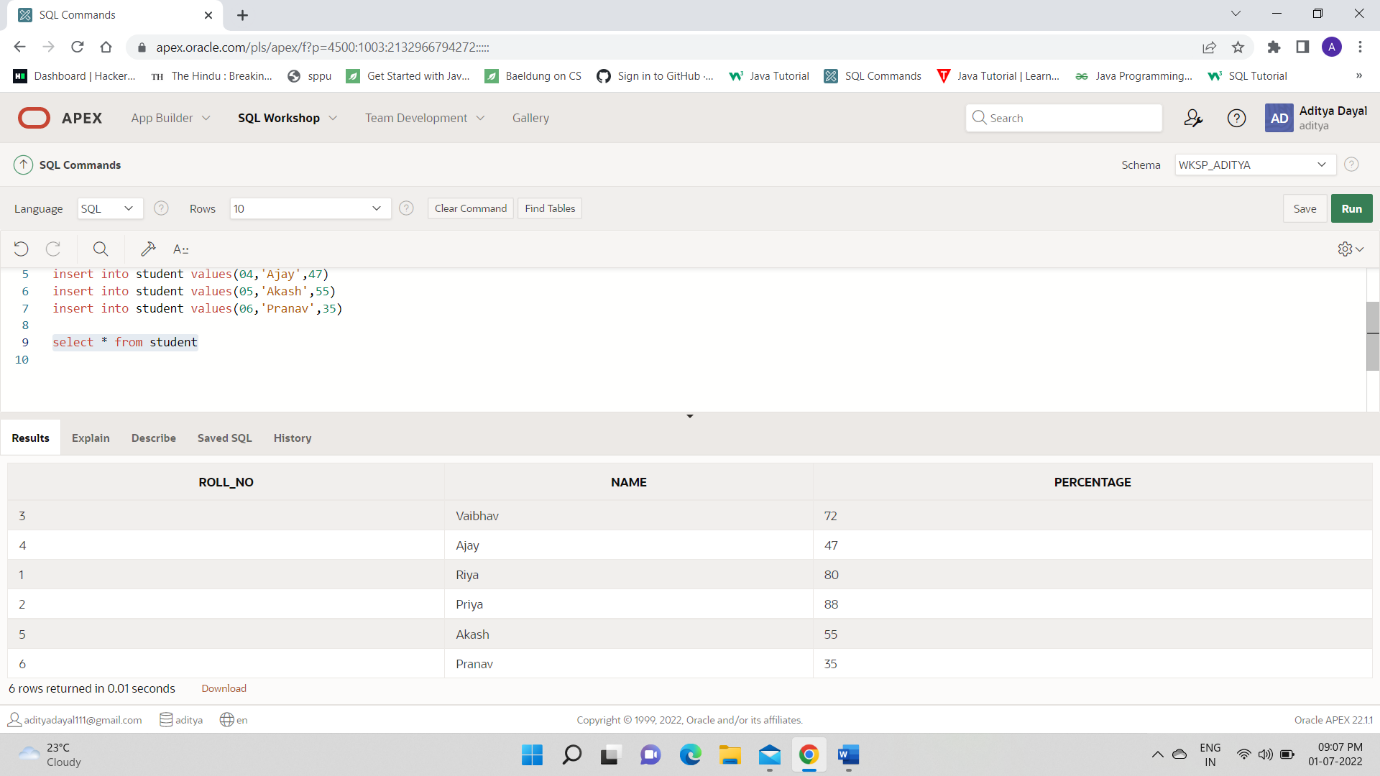
insert into student values(03,'Vaibhav',72,'')

insert into student values(04,'Ajay',47,'')

insert into student values(05,'Akash',55,'')

insert into student values(06,'Pranav',35,'')

select \* from student



DECLARE

RNO student.roll\_no%type:=:RNO;

atten student.attendance%type;

BEGIN

select attendance into atten from student where roll\_no=RNO;

IF atten<75 THEN

dbms\_output.put\_line('term not granted');

update student set status='D';

ELSE

dbms\_output.put\_line('term granted');

update student set status='ND';

END IF;

END;

