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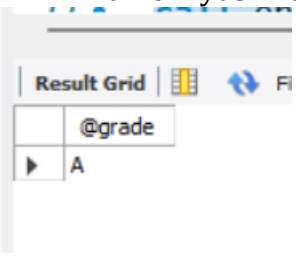
Institute of Computer Technology
Ganpat University
(2CSE301) DATABASE MANAGEMENT SYSTEM

Practical 12 MySQL Conditional Statements and Looping

Part A: Write the following queries using conditional statements

1. Create a procedure "**enrolmentnumber_q1**" to identify the grade of an employee. If an employee earns more than 8000, his grade should be 'A', if he earns between 5000 to 8000 then his grade is 'B', else his grade should be 'C'. **(e.g. if the user enters 100 as employee_id, he should get the result 'A')**

```
DELIMITER //
create procedure enrolmentnumber_q1(in employee_id int,
out grade char(1))
begin
      declare earings decimal (10,2);
  select salary into earings from employees
  where employee_id = employee_id
  limit 1;
  if earings > 8000 then
            set grade = 'A';
      elseif earings >= 5000 and earings <= 8000 then
            set grade = 'B';
      else
            set grade = 'C';
    end if ;
end;
//
delimiter ;

set @grade = '';
call enrolmentnumber_q1(100, @grade);
select @grade;
```

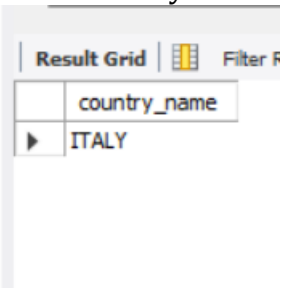


2. Create a procedure **"enrolmentnumber_q2"** to display the full country name based on user specified location ID as per below details: **(e.g., if user enters 1000, he should be shown ITALY)**

AR Argentina
AU Australia
BE Belgium
BR Brazil
CA Canada
CH Switzerland
CN China
DE Germany
DK Denmark
EG Egypt
FR France
HK HongKong
IL Israel
IN India
IT Italy
JP Japan
KW Kuwait MX
Mexico
NG Nigeria
NL Netherlands
SG Singapore
UK United Kingdom
US United States of America
ZM Zambia
ZW Zimbabwe

```
delimiter //

create procedure enrol_q2(in location_id int)
begin
declare country_name varchar(255);

   set country_name = (
    case location_id
```

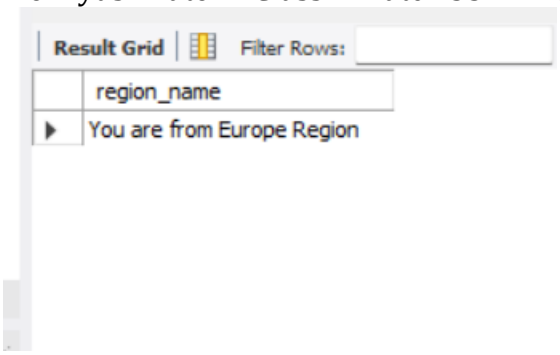
```
    when 1000   then 'ITALY'
   when 1001   then 'ARGENTINA'
    when 1002   then 'AUSTRALIA'
    when 1003   then 'BELGIUM'
    when 1004   then 'BRAZIL'
    when 1005   then 'CANADA'
    when 1006   then 'SWITZERLAND'
    when 1007   then 'CHINA'
    when 1008   then 'GERMANY'
    when 1009   then 'DENMARK'
    when 1010   then 'EGYPT'
    when 1011   then 'FRANCE'
    when 1012   then 'HONGKONG'
    when 1013   then 'ISRAEL'
    when 1014   then 'INDIA'
    when 1015   then 'ITALY'
    when 1016   then 'JAPAN'
    when 1017   then 'KUWAIT'
    when 1018   then 'MEXICO'
    when 1019   then 'NIGERIA'
    when 1020   then 'NETHERLAND'
    when 1021   then 'SINGAPORE'
    when 1022   then 'UNITED KINGDOM'
    when 1023   then 'UNITED STATES OF AMERICA'
    when 1024   then 'ZAMBIA'
    when 1025   then 'ZIMBAVE'
   ELSE 'UNKNOWN'
    end
  );
  SELECT country_name;
end;
//

delimiter ;

call enrol_q2(1000);
```



PART B: Solve the following queries using CASE statement

3. Create a stored procedure "**enrolmentnumber_q3**" to display the region name based on region id as per following manner:
(e.g. if a user enters 1, he should see the output like: "You are from Europe Region", if user enters a number which does not exist in database, then he should see the output like: "Region does not exist")

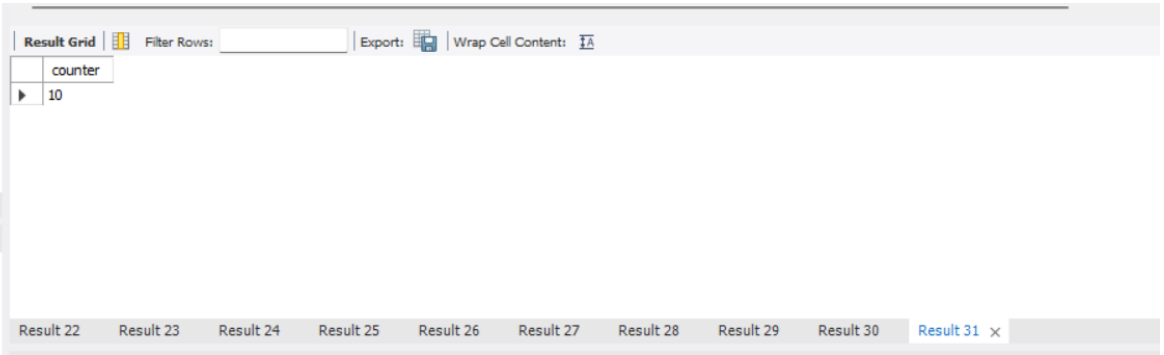
```
delimiter //

create procedure enrol_q3(in region_id int )
begin
   declare region_name varchar(255);

  set region_name = (
            case region_id
                    when 1 then 'You are from Europe Region '
        when 2 then 'You are from Asia Region'
        when 3 then 'You are from North America '
        when 4 then 'You are from South America'
        when 5 then 'You are from Africa Region'
                    else 'Region does not exit'
     end
    );
    select region_name;
    end;
    //
    delimiter ;
call enrol_q3(1);
```



PART C: Solve the following queries using loop

4. Create a stored procedure "**enrolmentnumber_q4**" to print numbers from 1 to 10 using WHILE loop.

```
delimiter //

create procedure enrol_q4()
begin
declare counter int default 1;

  while counter <= 10 do
       select counter ;
    set counter = counter + 1 ;
    end while;
end;
//

delimiter ;

call enrol_q4();
```



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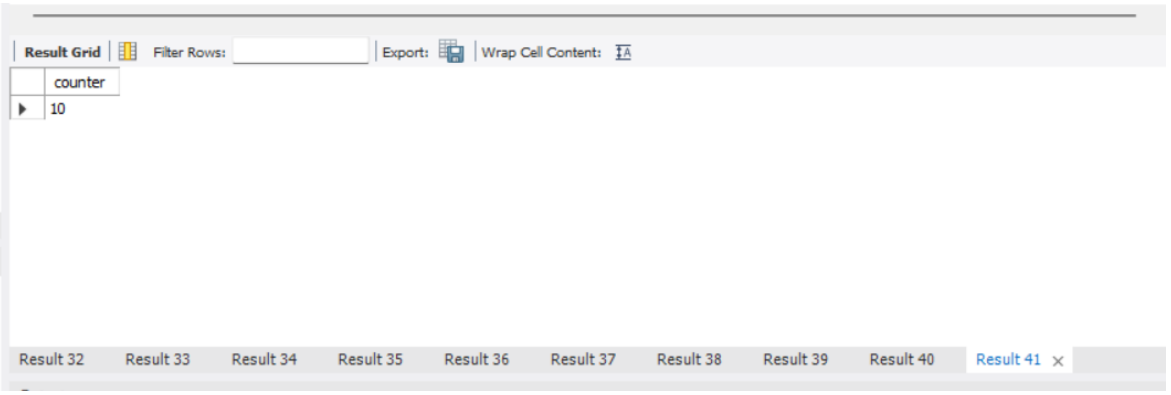
5. Create a stored procedure "**enrolmentnumber_q5**" to print numbers from 1 to 10 using LOOP statement.

```
delimiter //

create procedure enrol_q5()
begin
        declare counter int default 1;

  repeat
                select counter;
    set counter = counter + 1;
        until counter > 10 end repeat;
end;
//
delimiter ;

call enrol_q5();
```



6. Create a stored procedure "**enrolmentnumber_q6**" to print even numbers from 1 to 20 using LOOP statement.

```
delimiter //
create procedure enrol_q6()
begin
declare counter int default 2;
   while counter <= 20 do
        select counter;
      set counter = counter + 2;
end while ;
end;
//

delimiter ;
```

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```
call enrol_q6();
```