PL/SQL Programs on Case Study 2 & 5 (EMERGENCY ROOM INFORMATION SYSTEM) & (TOUR OPERATING SYSTEM) PRE-LAB

1) Declare
 fvar number := null; svar number := 5
 Begin
 goto << fproc>>
 if fvar is null then
 << fproc>>
 svar := svar + 5
 end if;
 End;

What will be the value of svar after the execution?

Ans) Ouput: Syntax Error.

2) What is a stored procedure?

Ans) A stored procedure is a prepared sql code that you can save, so the code can be reused over and over again.

3) What are the different datatypes supported in PL/SQL

Ans) pl/sql provides many pre-defined data-types like integer, floating point, charcater, Boolean, date, collection, refrence and large object (lob) types.

4) What is the Result of the following 'VIK'||NULL||'RAM'?

Ans) VIKRAM

5) A database is an extensive collection of records. In what form are they stored?

Ans) Database is a collection of data and records. They are stored in form of simple tables. Tables are related if they contain common fields.

6) In the index allocation scheme of blocks to a file, the maximum possible size of the life depends on _____

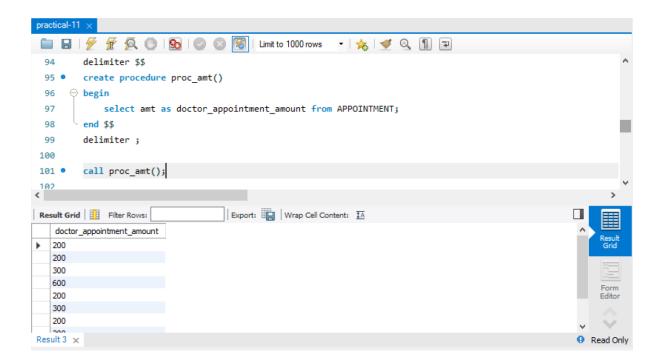
Ans) the size of the blocks, the number of blocks used for the index and size of address of blocks.

7) How many Clustered indexes can be created on table and why?

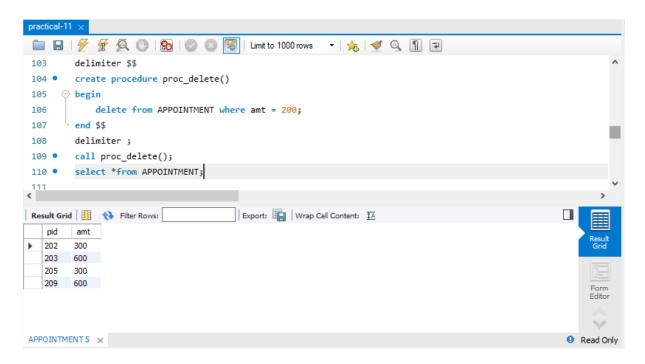
Ans) There can only be one clustered index per table, because the data row themselves can be stored in only one order. The only time the data rows in a table are stored in sorted order is when the table contains a clustered index.

INLAB

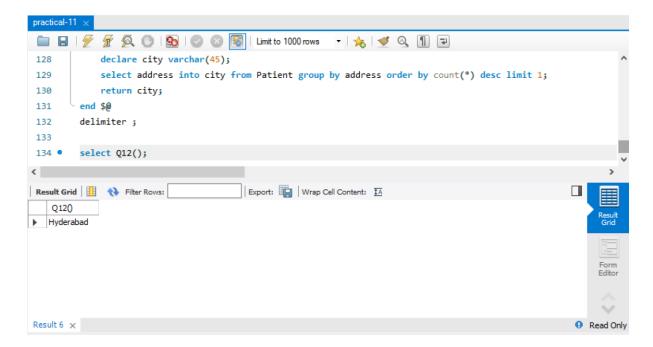
1) Write PL/SQL program to display doctor appointment fee amount value.



2) Write PL/SQL program to delete appointment amount value 200



3) Write a PL/SQL program using functions to display the address details from where the number of patients are more than 3.



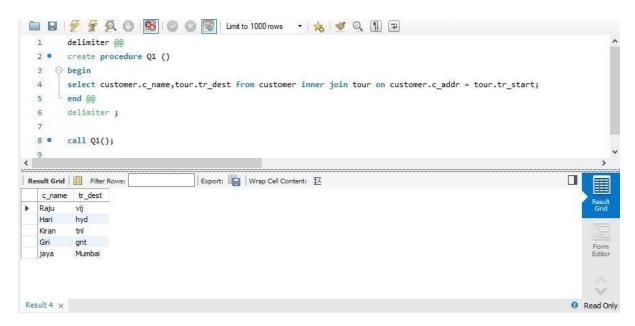
4) Write an PL/SQL program using triggers to raise an exception on invalid patient ID

insert into Patient values(210,'Naveen','Kumar','jghfr@gmail.com',2099135327,'Hyderabad',STR TO DATE('22-04-2020','%d-%m-%Y'));



PL/SQL programs on TOUR OPERATING SYSTEM

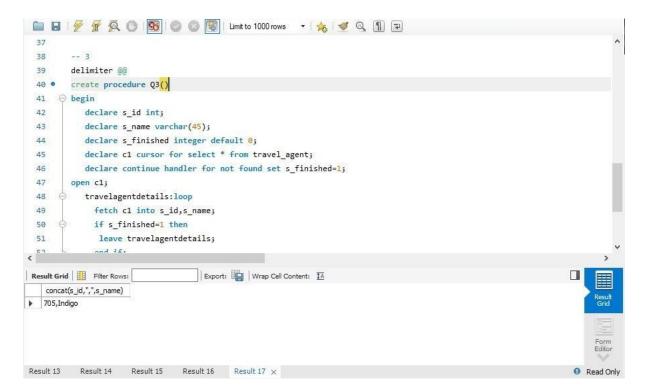
1) Create a procedure to display the tourist details who are visiting the same place



2) Create a cursor to display the details of the customers/tourists

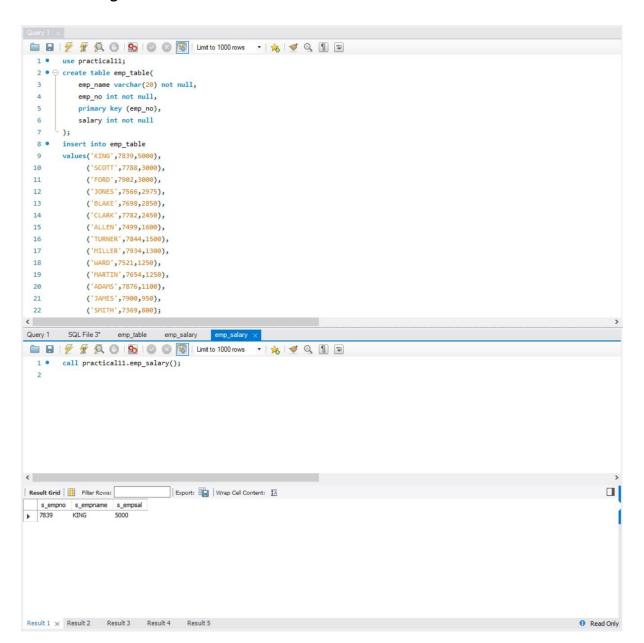
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iii II | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/
    15 •
                            create procedure Q2()
    16 ⊖ begin
    17
                                       declare s_id int;
    18
                                       declare s_name varchar(45);
    19
                                      declare s_addr varchar(45);
     20
                                      declare s_mobile mediumtext;
    21
                                      declare s_finished integer default 0;
                                      declare c1 cursor for select * from customer;
    22
                                      declare continue handler for not found set s_finished=1;
    23
     24
                           open c1;
    25
                                      customerdetails:loop
     26
                                             fetch c1 into s_id,s_name,s_addr,s_mobile;
     27
                                            if s_finished=1 then
     28
                                                leave customerdetails;
     29
                                             select concat(s_id,",",s_name,",",s_addr,",",s_mobile);
     30
     31
                                           end loop customerdetails;
     32
                            close c1;
     33
     34
                              delimiter;
     35
      36 •
                          call Q2();
  Result Grid Filter Rows:
                                                                                                                       Export: Wrap Cell Content: IA
         concat(s_id,",",s_name,",",s_addr,",",s_mobile)
▶ 307,Kiran,Guntur,7322938936
Result 5 Result 6 Result 7 Result 8 Result 9 Result 10 Result 11 Result 12 X
```

3) Create a cursor to display the details of the travel agents where the tourists booked their tours



POSTLAB

1) Write a PL/SQL PROGRAM to select the five highest paid employees from the emp table using CURSORS.



2) Write a PL/SQL Program to check for an Armstrong Number

```
declare
n number:=1634;
s number:=0;
r number;
len number;
m number;
```

3) Write a PL/SQL program to check whether a given character is letter or digit.

```
DECLARE
 get_ctr CHAR(1) := '&input_a_character';
BEGIN
 IF (get_ctr >= 'A'
    AND get_ctr <= 'Z')
   OR ( get_ctr >= 'a'
      AND get ctr <= 'z') THEN
  dbms output.Put line ('The given character is not a letter');
  IF get ctr BETWEEN '0' AND '9' THEN
   dbms_output.Put_line ('The given character is a number');
                                                         ELSE
   dbms output.Put line ('The given character is not a number');
  END IF;
 END IF;
END;
Output: A
           The given Character is a letter.
```