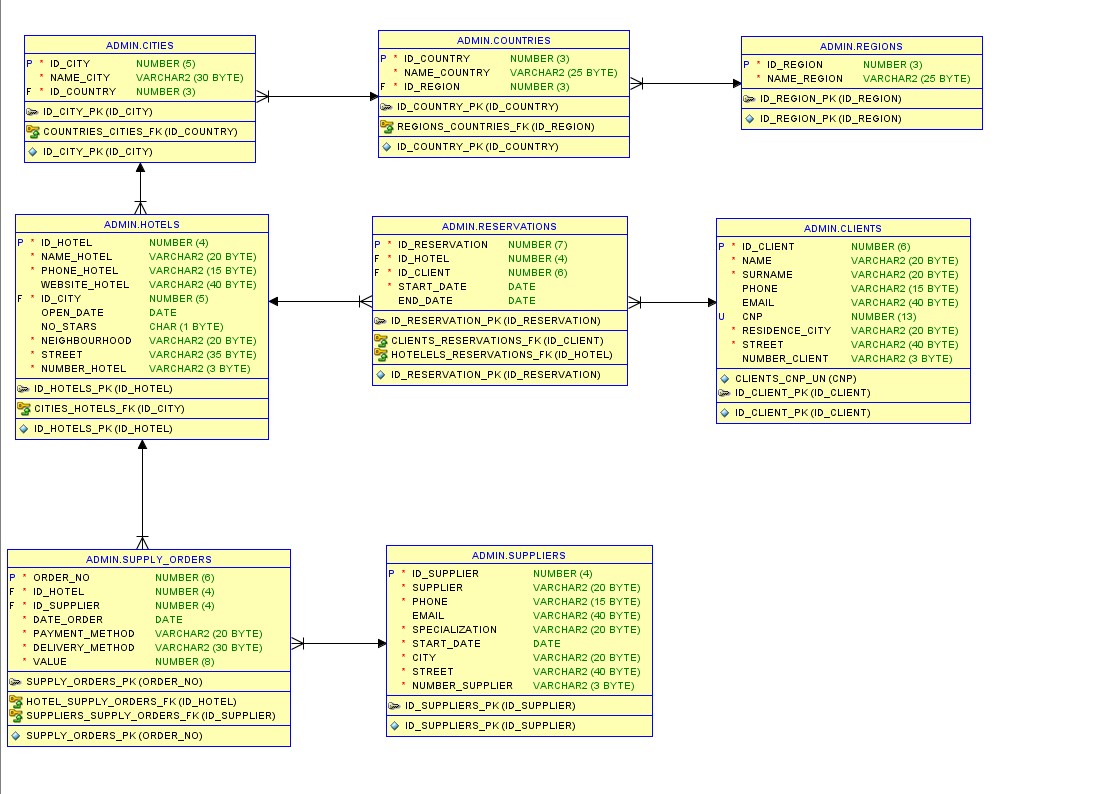
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Second year, group 1065 G series.

Database Schema:

1. Write a function which takes in a city name and returns the number of 4 and 5 star hotels from that city. Call the function.

create or replace function get\_high\_stars\_hotels(p\_city varchar2) return number is

cursor c(p\_id number) is select \* from hotels where id\_city = p\_id;

v\_city\_id number;

v\_no\_hotels number :=0;

begin

select id\_city into v\_city\_id from cities where name\_city = p\_city;

for i in c(v\_city\_id) loop

if i.no\_stars ='4' or i.no\_stars ='5' then

v\_no\_hotels:= v\_no\_hotels+1;

end if;

end loop;

return v\_no\_hotels;

exception when no\_data\_found then

dbms\_output.put\_line('The city introduced doesnt have any hotels');

end;

/

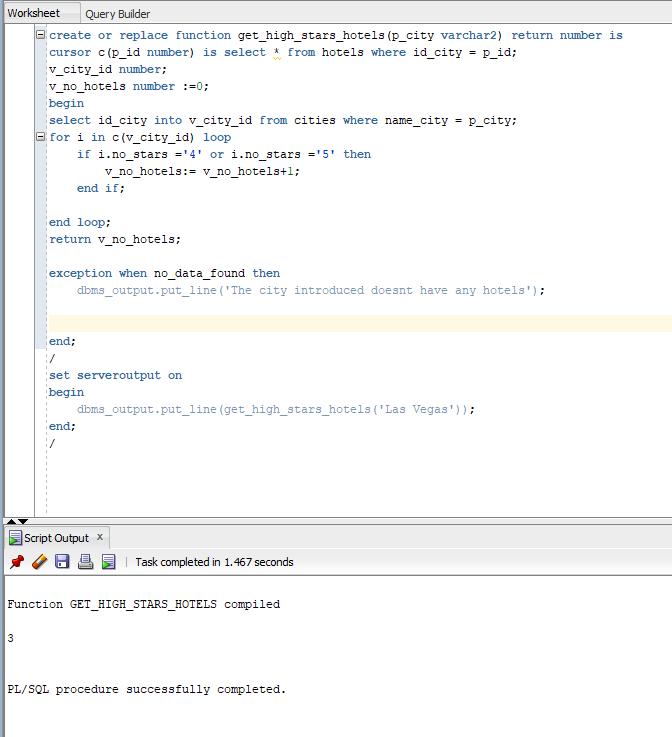
set serveroutput on

begin

dbms\_output.put\_line(get\_high\_stars\_hotels('Las Vegas'));

end;

/



1. Write a trigger which doen't allow reservations that end in the next month (from the system date)

create or replace trigger block\_reservations

before insert or update on reservations for each row

declare

begin

if :new.end\_date between sysdate and ADD\_MONTHS(sysdate,1) then

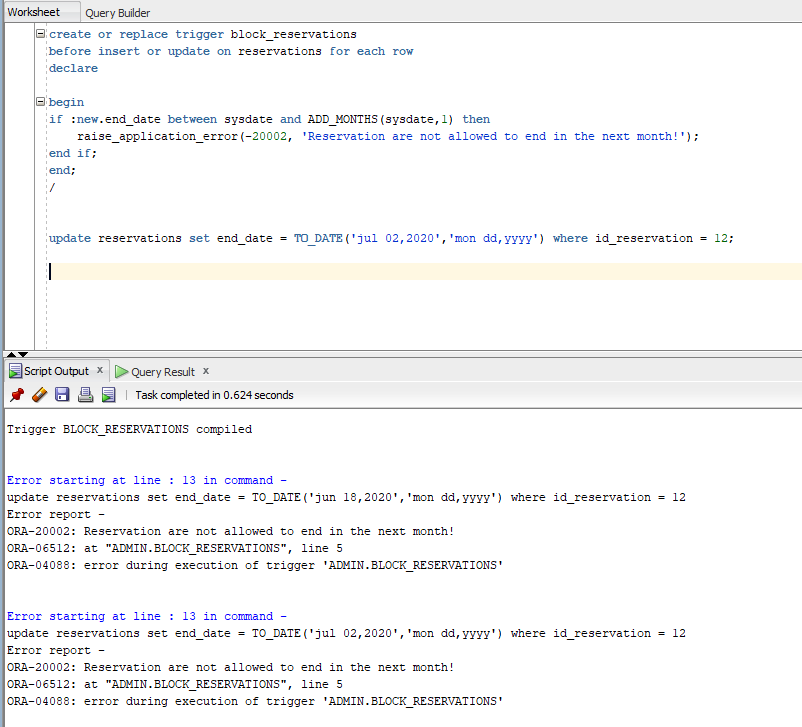
raise\_application\_error(-20002, 'Reservation are not allowed to end in the next month!');

end if;

end;

/

update reservations set end\_date = TO\_DATE('jul 02,2020','mon dd,yyyy') where id\_reservation = 12;



3.Given the PL/SQL block:

set serveroutput on

declare full\_name varchar2(30);

begin SELECT first\_name||last\_name into full\_name from emp where employee\_id=&a; dbms\_output.put\_line(full\_name);

end; /

Which of the following statement are true? a) A substitution variable is used b) A bind variable is used c) It shows the name and first name of employee 101 d) The block contains an error and doesn’t run e) The block includes conditional control

Rasp: a

4. Which of the following statements about packages are true?

a) The specs contain private objects b) The specs are mandatory c) The body is mandatory d) Can contain variables e) Can store overloaded subprograms

Rasp: b d e

5. Given this declaration part of a PL/SQL block

DECLARE TYPE tab\_imb IS TABLE OF NUMBER;

t tab\_imb := tab\_imb(1,20,3,40,5);

[…]

Which of the following statement are true? a) An index by table variable is defined b) A nested table variable is defined c) A VARRAY variable is defined d) A composite type is defined e) A scalar type is defined

Rasp: b

6. Which of the following functions or statements can be used in PLSQL statements: a) CASE b) MAX c) COUNT d) GREATEST e) LEAST

Rasp: a, d, e

7. To run the statement needed to drop a table in PLSQL we need to use: a) EXECUTE IMMEDIATE b) DELETE c) DROP d) ALTER e) CALL For the first two exercises the database schema from the project will be provided in the Word file, together with the PLSQL code.

Rasp: a