Pl/Sql Assignment 3

1. Code:

create table student (

roll number(5,0),

name varchar(25),

age number(2,0),

marks number(3,0),

primary key(roll)

);

declare

entry student%rowtype;

begin

insert into student(roll,name,age,marks) values (100,'Ashe',18,85);

insert into student(roll,name,age,marks) values (200,'Sett',21,86);

begin

select \* into entry from student where marks>=80;

exception

when too\_many\_rows then

dbms\_output.put\_line('This query has multiple records.');

end;

select \* into entry from student where age<18;

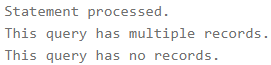
exception

when no\_data\_found then

dbms\_output.put\_line('This query has no records.');

end;

Output:



2. Code:

create table student

(

roll number(5,0),

name varchar(25),

age number(2,0),

marks number(3,0),

primary key(roll)

);

insert into student(roll,name,age,marks) values (100,'Ashe',18,85);

begin

begin

insert into student(roll,name,age,marks) values (200,'Sett',21,'86a');

exception

when invalid\_number then

dbms\_output.put\_line('String to number conversion failed.');

end;

insert into student(roll,name,age,marks) values (100,'Draven',24,87);

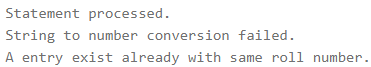
exception

when dup\_val\_on\_index then

dbms\_output.put\_line('A entry exist already with same roll number.');

end;

Output:



3. Code:

create table student

(

roll number(5,0),

name varchar(25),

age number(2,0),

marks number(3,0),

primary key(roll)

);

declare

a number(2,0);

begin

begin

insert into student(roll,name,age,marks) values (100,'Ashe',18,'85a');

exception

when invalid\_number then

dbms\_output.put\_line('String to number conversion failed.');

end;

a:=to\_number('12ab');

exception

when value\_error then

dbms\_output.put\_line('A procedural statement cannot convert string to number.');

end;

Output:



4. Code:

create table student

(

roll number(5,0),

name varchar(25),

age number(2,0),

marks number(3,0),

primary key(roll)

);

declare

invalid\_marks exception;

entry student%rowtype;

begin

insert into student(roll,name,age,marks) values (100,'Ashe',18,186);

select \* into entry from student;

if entry.marks>100 then

raise invalid\_marks;

end if;

exception

when invalid\_marks then

dbms\_output.put\_line('Marks inserted of student with roll:'||entry.roll||' is invalid.');

end;

Output:



5. Code:

declare

a number(5,0);

div\_by\_zero exception;

pragma exception\_init(div\_by\_zero,-01476);

begin

a:=5/0;

exception

when div\_by\_zero then

dbms\_output.put\_line('Number is being divided by zero.');

end;

Output:



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