

Lab-7

1. Find a given number is prime or not prime.

```
declare
n number;
i number;
temp number;
begin
n := 13;
i := 2;
temp := 1;
for i in 2..n/2
    loop
        if mod(n, i) = 0
            then
                temp := 0;
                exit;
            end if;
        end loop;

        if temp = 1
            then
                dbms_output.put_line('Prime');
            else
                dbms_output.put_line('Not Prime');
            end if;
        end;
```

Output:

Statement processed.

Prime

2. A student wrote 6 exam in this semester and got marks also. Write a program to get all the marks and fins the average mark for the student. (you can use maximum 2 variable)

DECLARE

type grades IS VARRAY(6) OF INTEGER;

marks grades;

total integer;

avgs integer;

ni integer;

BEGIN

marks:= grades(98, 97, 78, 87, 92, 83);

total := marks(1)+marks(2)+marks(3)+marks(4)+marks(5)+marks(6);

avgs := total/marks.count;

ni := marks.count;

FOR i in 1 .. ni LOOP

dbms_output.put_line('Marks: ' || marks(i));

END LOOP;

dbms_output.put_line('Average Marks: ' || avgs);

END;

Output:

Statement processed.

Marks: 98

Marks: 97

Marks: 78

Marks: 87

Marks: 92

Marks: 83

Average Marks: 89

3. A human will be called child (age<10), youth (age is between 11 to 20), young (age is between 21 to 30), middle aged (age is between 31 to 45), old (age is more than 46), ask a person about his/her age and categorize them.

```
DECLARE
```

```
    age integer;
```

```
BEGIN
```

```
    age := 30;
```

```
CASE
```

```
WHEN age <= 10 THEN
```

```
    dbms_output.put_line('The Human is Child');
```

```
WHEN age >= 11 AND age <= 20 THEN
```

```
    dbms_output.put_line('The Human is Youth');
```

```
WHEN age >= 21 AND age <= 30 THEN
```

```
    dbms_output.put_line('The Human is Young');
```

```
WHEN age >= 31 AND age <= 45 THEN
```

```
    dbms_output.put_line('The Human is Middle-Aged');
```

```
WHEN age >=46 THEN
```

```
    dbms_output.put_line('The Human is Old');
```

```
END CASE;
```

END;

Output:

Statement processed.
The Human is Young

Database schema

```
create table sales_person(salespersonNumber int, salespersonName  
varchar(256),commpercentage int,yearhire int,officenumber int);
```

```
insert into sales_person values(123,'Dutch',17,2002,76567);
```

```
insert into sales_person values(124,'Hosea',18,2006,88890);
```

```
insert into sales_person values(125,'Arthur',19,2020,99099);
```

```
select * from sales_person;
```

```
create table customer(customerNumber int,customerName varchar(256),salespersonNumber  
int,headQuarterCity varchar(256));
```

```
insert into customer values(141,'Raja',123,'Hyderabad');
```

```
insert into customer values(142,'Veera',124,'Hyderabad');
```

```
select * from customer;
```

```
create table customer_employee(customerNumber int,employeeNumber int,employeeName  
varchar(256),tittle varchar(256));
```

```
insert into customer_employee values(141,111,'Manoj','Developer');
```

```
select * from customer_employee;
```

```
create table product (ProductNumber int , ProductName varchar(256), UnitPrice int, Status  
varchar(256));
```

```
insert into product values(111,'Waterbottle',40,'Available');
```

```
insert into product values(112,'Heater',41,'Available');
```

```
select * from product;
```

```
create table sales (SIDs int , SalesPersonNumber int, ProductNumber int, Quantity int, Dates  
int);
```

```
insert into sales values(12,124,112,10,2019);
```

```
insert into sales values(11,123,111,5,2002);
```

```
insert into sales values(13,125,113,90,2020-1-8);
```

```
select * from sales;
```

```
create table office (OfficeNumber int , OfficeAddress varchar(256), Telephone int , Siz int);
```

```
insert into office values(101,'Hydernagar',123432,12);
```

```
select * from office;
```

Output:

```
Table created.
```

```
1 row(s) inserted.
```

```
1 row(s) inserted.
```

```
1 row(s) inserted.
```

SALESPERSONNUMBER	SALESPERSONNAME	COMMPERCENTAGE	YEARHIRE	OFFICENUMBER
123	Dutch	17	2002	76567
124	Hosea	18	2006	88890
125	Arthur	19	2020	99099

```
Download CSV
```

```
3 rows selected.
```

```
Table created.
```

```
1 row(s) inserted.
```

```
1 row(s) inserted.
```

CUSTOMERNUMBER	CUSTOMERNAME	SALESPERSONNUMBER	HEADQUARTERCITY
141	Raja	123	Hyderabad
142	Veera	124	Hyderabad

```
Download CSV
```

2 rows selected.

Table created.

1 row(s) inserted.

CUSTOMERNUMBER	EMPLOYEENUMBER	EMPLOYEEENAME	TITTLE
141	111	Manoj	Developer

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Table created.

1 row(s) inserted.

1 row(s) inserted.

PRODUCTNUMBER	PRODUCTNAME	UNITPRICE	STATUS
111	Waterbottle	40	Available
112	Heater	41	Available

[Download CSV](#)

2 rows selected.

Table created.

1 row(s) inserted.

1 row(s) inserted.

1 row(s) inserted.

1 row(s) inserted.

1 row(s) inserted.

SIDS	SALESPERSONNUMBER	PRODUCTNUMBER	QUANTITY	DATES
12	124	112	10	2019
11	123	111	5	2002
13	125	113	90	2011

[Download CSV](#)

3 rows selected.

Table created.

1 row(s) inserted.

OFFICENUMBER	OFFICEADDRESS	TELEPHONE	SIZ
101	Hydernagar	123432	12

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1. Find the details of the salesperson for a given Salesperson Number

```
select * from sales_person
```

```
where salespersonNumber=123;
```

Output:

SALESPERSONNUMBER	SALESPERSONNAME	COMMPERCENTAGE	YEARHIRE	OFFICENUMBER
123	Dutch	17	2002	76567

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2. Find the product got maximum sale in terms of price

```
select productName
```

```
from sales s,product p
```

```
where p.productNumber=s.productNumber and unitprice=(select max(unitprice) from sales  
where Dates=2019);
```

Output:

PRODUCTNAME
Heater

3. Insert the details of a newly joined salesperson.

```
insert into sales_person values(125,'ashish',12,2019,12331);
```

```
select * from sales_person;
```

Output:

SALESPERSONNUMBER	SALESPERSONNAME	COMMPERCENTAGE	YEARHIRE	OFFICENUMBER
123	Dutch	17	2002	76567
124	Hosea	18	2006	88890
125	Arthur	19	2020	99099
125	ashish	12	2019	12331

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4 rows selected.

4. Update the price of a particular product.

update product set unitprice=190

where productNumber=111;

select * from product;

Output:

PRODUCTNUMBER	PRODUCTNAME	UNITPRICE	STATUS
111	Waterbottle	190	Available
112	Heater	41	Available

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2 rows selected.

5. Find the salesperson, who sold maximum quantity in January 2020

select salespersonName

from sales_person w,sales s

where s.salespersonNumber=w.salespersonNumber and quantity=(select max(quantity) from sales where dates=2020);

Output:

no data found

6. Update the details of office as it got a new location.

```
update office set officeaddress='kukatpally'
```

```
where officeNumber=101;
```

```
select * from office;
```

Output:

1 row(s) updated.

OFFICENUMBER	OFFICEADDRESS	TELEPHONE	SIZ
101	kukatpally	123432	12

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7. Change the status of a product to unavailable.

```
update product set status='unavailable' where
```

```
productNumber=111;
```

```
select * from product;
```

Output:

1 row(s) updated.

PRODUCTNUMBER	PRODUCTNAME	UNITPRICE	STATUS
111	Waterbottle	190	unavailable
112	Heater	41	Available

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2 rows selected.

8. Delete a salesperson from the database, as he left the job.

delete from sales_person

where salespersonNumber=125;

select * from sales_person;

Output:

2 row(s) deleted.

SALESPERSONNUMBER	SALESPERSONNAME	COMMPERCENTAGE	YEARHIRE	OFFICENUMBER
123	Dutch	17	2002	76567
124	Hosea	18	2006	88890

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2 rows selected.

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