



Name: Dwarkesh Prakash Waingade

Class:MCA-I

Subject:RDBMS

Date:

Roll No.:57

ExperimentNo:1

Title:Create table, insert into table,view table.

Query:

A. Create Table:

```
createtableStd (  
    Stud_idint,  
    Stud_Namevarchar(20),  
    Stud_Cityvarchar(20),Stud_Phonenoint,  
    Stud_Dept varchar(20)  
)
```

Output:

```
Table created.
```

```
0.00 seconds
```

Query:

B. Insert:

INSERTINTOStd

(Stud_id,Stud_Name,Stud_City,Stud_Phoneno,Stud_Dept)

VALUES

(1,'Suraj','Kolhapur',8807734638,'MCA');

INSERTINTOStd

(Stud_id,Stud_Name,Stud_City,Stud_Phoneno,Stud_Dept)

VALUES

(1,'Suraj','Kolhapur',8807734638,'MCA');

INSERTINTOStd

(Stud_id,Stud_Name,Stud_City,Stud_Phoneno,Stud_Dept)

VALUES

(3,'Omkar','Wai',8807738898,'MCA');

INSERTINTOStd

(Stud_id,Stud_Name,Stud_City,Stud_Phoneno,Stud_Dept)

VALUES

(4,'Sanket','Solapur',8807738548,'MBA');

INSERTINTOStd

(Stud_id,Stud_Name,Stud_City,Stud_Phoneno,Stud_Dept)

VALUES

(5,'Saurabh','Sangli',8807738675,'Msc');

Output:

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

```
0.00 seconds
```

Query:

C.View:

```
select*fromStd;
```

Output:

STUD_ID	STUD_NAME	STUD_CITY	STUD_PHONENO	STUD_DEPT
1	Suraj	Kolhapur	8807734638	MCA
2	Shubham	Safara	8807738768	MCA
3	Omkar	Wai	8807738898	MCA
4	Sanket	Solapur	8807738548	MBA
5	Saurabh	Sangli	8807738675	Msc

```
5 rows returned in 0.00 seconds
```

```
CSV Export
```



Name: Dwarkesh Prakash Waingade

Class:MCA-I

Subject:RDBMS

Date:

Roll No.:57

ExperimentNo:2

Title:Tofilterdatafromtable.

Theory:

Query:

Selectingparticulardepartment:

```
select*fromStdwhere
```

```
stud_dept='MCA';
```

Output:

STUD_ID	STUD_NAME	STUD_CITY	STUD_PHONENO	STUD_DEPT
1	Suraj	Kolhapur	8807734638	MCA
2	Shubham	Satara	8807738768	MCA
3	Omkar	Wai	8807738898	MCA

3 rows returned in 0.02 seconds [CSV Export](#)

```
select*fromStdwhere
```

```
stud_dept='MBA';
```

Output:

STUD_ID	STUD_NAME	STUD_CITY	STUD_PHONENO	STUD_DEPT
4	Sanket	Solapur	8807738548	MBA



Name: Dwarkesh Prakash Waingade

Class:MCA-I

Subject:RDBMS

Date:

Roll No.:57

ExperimentNo:3

Title:To sortdatainthetable.

Query:

A. Asending Order.

```
select*from Std
```

```
ORDERBYStud_Name ASC;
```

Output:

STUD_ID	STUD_NAME	STUD_CITY	STUD_PHONENO	STUD_DEPT
3	Omkar	Wai	8807738898	MCA
4	Sanket	Solapur	8807738548	MBA
5	Saurabh	Sangli	8807738675	Msc
2	Shubham	Satara	8807738768	MCA
1	Suraj	Kolhapur	8807734638	MCA

5 rows returned in 0.00 seconds

[CSV Export](#)

B. Decendingorder:

```
select*from Std
```

```
ORDERBYStud_NameDESC;
```

Output:

STUD_ID	STUD_NAME	STUD_CITY	STUD_PHONENO	STUD_DEPT
1	Suraj	Kolhapur	8807734638	MCA
2	Shubham	Satara	8807738768	MCA
5	Saurabh	Sangli	8807738675	Msc
4	Sanket	Solapur	8807738548	MBA
3	Omkar	Wai	8807738898	MCA

5 rows returned in 0.00 seconds

[CSV Export](#)



Name: Dwarkesh Prakash Waingade

Class:MCA-I

Subject:RDBMS

Date:

Roll No.:57

ExperimentNo:4

Title:Touupdateanddeletecontentsofatable. **Query:**

select*from Std;

Output:

STUD_ID	STUD_NAME	STUD_CITY	STUD_PHONENO	STUD_DEPT
1	Suraj	Kolhapur	8807734638	MCA
2	Shubham	Satara	8807738768	MCA
3	Omkar	Wai	8807738898	MCA
4	Sanket	Solapur	8807738548	MBA
5	Saurabh	Sangli	8807738675	Msc

5 rows returned in 0.00 seconds [CSV Export](#)

A. Afterupdatingthe table:

updateStdsetStud_Dept='BCA'whereStud_Dept='MCA';

Output:

3 row(s) updated.

0.00 seconds

STUD_ID	STUD_NAME	STUD_CITY	STUD_PHONENO	STUD_DEPT
1	Suraj	Kolhapur	8807734638	BCA
2	Shubham	Satara	8807738768	BCA
3	Omkar	Wai	8807738898	BCA
4	Sanket	Solapur	8807738548	MBA
5	Saurabh	Sangli	8807738675	Msc

5 rows returned in 0.00 seconds [CSV Export](#)

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B. Before deleting the table:

```
select * from Std;
```

Output:

STUD_ID	STUD_NAME	STUD_CITY	STUD_PHONENO	STUD_DEPT
1	Suraj	Kolhapur	8807734638	BCA
2	Shubham	Satara	8807738768	BCA
3	Omkar	Wai	8807738898	BCA
4	Sanket	Solapur	8807738548	MBA
5	Saurabh	Sangli	8807738675	Msc

5 rows returned in 0.00 seconds [CSV Export](#)

C. After Deleting the table:

```
delete from Std where Stud_Dept='Msc';
```

Output:

```
1 row(s) deleted.  
  
0.00 seconds
```

STUD_ID	STUD_NAME	STUD_CITY	STUD_PHONENO	STUD_DEPT
1	Suraj	Kolhapur	8807734638	BCA
2	Shubham	Satara	8807738768	BCA
3	Omkar	Wai	8807738898	BCA
4	Sanket	Solapur	8807738548	MBA

4 rows returned in 0.00 seconds [CSV Export](#)



Name: Dwarkesh Prakash Waingade

Class:MCA-I

Subject:RDBMS

Date:

Roll No.:57

ExperimentNo:5

Title:Workingwithtables.

Theory:

Query:

A. Insert:

INSERTINTOStd

(Stud_id,Stud_Name,Stud_City,Stud_Phoneno,Stud_Dept)

VALUES

(6,'Ajay','pune',8807558675,'BBA');

Output:

1 row(s) inserted.

0.00 seconds

STUD_ID	STUD_NAME	STUD_CITY	STUD_PHONENO	STUD_DEPT
1	Suraj	Kolhapur	8807734638	BCA
2	Shubham	Satara	8807738768	BCA
3	Omkar	Wai	8807738898	BCA
4	Sanket	Solapur	8807738548	MBA
6	Ajay	pune	8807558675	BBA

5 rows returned in 0.00 seconds [CSV Export](#)

B. Update:

Before updating the table:

select * from Std;

Output:

STUD_ID	STUD_NAME	STUD_CITY	STUD_PHONENO	STUD_DEPT
1	Suraj	Kolhapur	8807734638	BCA
2	Shubham	Satara	8807738768	BCA
3	Omkar	Wai	8807738898	BCA
4	Sanket	Solapur	8807738548	MBA
6	Ajay	pune	8807558675	BBA

5 rows returned in 0.00 seconds [CSV Export](#)

C. After updating the table:

UPDATE table set Stud_Dept='MCA' where Stud_Dept='BCA';

Output:

3 row(s) updated.

0.00 seconds

STUD_ID	STUD_NAME	STUD_CITY	STUD_PHONENO	STUD_DEPT
1	Suraj	Kolhapur	8807734638	MCA
2	Shubham	Satara	8807738768	MCA
3	Omkar	Wai	8807738898	MCA
4	Sanket	Solapur	8807738548	MBA
6	Ajay	pune	8807558675	BBA

5 rows returned in 0.00 seconds [CSV Export](#)

D. Delete:

Before deleting the table:

select * from Std;

Output:

STUD_ID	STUD_NAME	STUD_CITY	STUD_PHONENO	STUD_DEPT
1	Suraj	Kolhapur	8807734638	MCA
2	Shubham	Satara	8807738768	MCA
3	Omkar	Wai	8807738898	MCA
4	Sanket	Solapur	8807738548	MBA
6	Ajay	pune	8807558675	BBA

5 rows returned in 0.00 seconds [CSV Export](#)

E. After Deleting the table:

delete from Std where Stud_id=6;

Output:

1 row(s) deleted.

0.00 seconds

STUD_ID	STUD_NAME	STUD_CITY	STUD_PHONENO	STUD_DEPT
1	Suraj	Kolhapur	8807734638	MCA
2	Shubham	Satara	8807738768	MCA
3	Omkar	Wai	8807738898	MCA
4	Sanket	Solapur	8807738548	MBA

4 rows returned in 0.00 seconds [CSV Export](#)

Conclusion:



Name: Dwarkesh Prakash Waingade

Class:MCA-I

Subject:RDBMS

Date:

Roll No.:57

ExperimentNo:6

Title:Tomodifyatable. **Theory:**

Query:

BeforeModifythe table:

select*from Std;

Output:

STUD_ID	STUD_NAME	STUD_CITY	STUD_PHONENO	STUD_DEPT
1	Suraj	Kolhapur	8807734638	MCA
2	Shubham	Satara	8807738768	MCA
3	Omkar	Wai	8807738898	MCA
4	Sanket	Solapur	8807738548	MBA

4 rows returned in 0.00 seconds [CSV Export](#)

A. Adding thecolumn:

AltertableStdAddStud_Categoryvarchar(20);

Output:

Table altered.

0.01 seconds

STUD_ID	STUD_NAME	STUD_CITY	STUD_PHONENO	STUD_DEPT	STUD_CATEGORY
1	Suraj	Kolhapur	8807734638	MCA	-
2	Shubham	Satara	8807738768	MCA	-
3	Omkar	Wai	8807738898	MCA	-
4	Sanket	Solapur	8807738548	MBA	-

4 rows returned in 0.00 seconds [CSV Export](#)

B. Modify column:

AltertableStdModifyStud_Categoryvarchar(10);

Output:

Table altered.

0.00 seconds

C. Dropcolumn:

ltertableStdDropcolumnStud_Category;

Output:

Table dropped.

0.01 seconds

STUD_ID	STUD_NAME	STUD_CITY	STUD_PHONENO	STUD_DEPT
1	Suraj	Kolhapur	8807734638	MCA
2	Shubham	Satara	8807738768	MCA
3	Omkar	Wai	8807738898	MCA
4	Sanket	Solapur	8807738548	MBA

4 rows returned in 0.02 seconds [CSV Export](#)

Conclusion:



Name: Dwarkesh Prakash Waingade

Class:MCA-I

Subject:RDBMS

Date:

Roll No.:57

ExperimentNo:7

Title: Createtablefromanothertable.

Query:

Old table(Std):

```
select*from Std;
```

Output:

STUD_ID	STUD_NAME	STUD_CITY	STUD_PHONENO	STUD_DEPT
1	Suraj	Kolhapur	8807734638	MCA
2	Shubham	Satara	8807738768	MCA
3	Omkar	Wai	8807738898	MCA
4	Sanket	Solapur	8807738548	MBA

4 rows returned in 0.02 seconds [CSV Export](#)

Newtable (Exam_Details):

```
createtableExam_Detailsas(select*from Std);
```

Output:

```
Table created.  
  
0.00 seconds
```

STUD_ID	STUD_NAME	STUD_CITY	STUD_PHONENO	STUD_DEPT
1	Suraj	Kolhapur	8807734638	MCA
2	Shubham	Satara	8807738768	MCA
3	Omkar	Wai	8807738898	MCA
4	Sanket	Solapur	8807738548	MBA

4 rows returned in 0.00 seconds

[CSV Export](#)

Conclusion:



Name: Dwarkesh Prakash Waingade

Class:MCA-I

Subject:RDBMS

Date:

Roll No.:57

ExperimentNo:8

Title: Create table using primary key and foreign key.

Query:

A. PRIMARYKEY:

```
createtableSupplier12 (  
supplier_idintprimarykey,  
Product_namevarchar(20),  
Product_Price int,  
Product_Quantity int  
);
```

Output:

Object Type TABLE Object SUPPLIER12									
Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
SUPPLIER12	SUPPLIER ID	Number	-	-	0	1	-	-	-
	PRODUCT NAME	Varchar2	20	-	-	-	✓	-	-
	PRODUCT PRICE	Number	-	-	0	-	✓	-	-
	PRODUCT QUANTITY	Number	-	-	0	-	✓	-	-
									1-4

B. FOREIGN KEY:

```
createtableOrder12 (  
  
    Order_No int primarykey,  
  
    Order_name varchar(20),  
  
    Order_Price int,  
  
    Order_Quantity int, Order_city varchar(30), supplier_id  
    int,  
  
    foreignkey(supplier_id) references Supplier12(supplier_id)  
  
);
```

Output:

Object Type TABLE Object ORDER12									
Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
ORDER12	ORDER_NO	Number	-	-	0	1	-	-	-
	ORDER_NAME	Varchar2	20	-	-	-	✓	-	-
	ORDER PRICE	Number	-	-	0	-	✓	-	-
	ORDER QUANTITY	Number	-	-	0	-	✓	-	-
	ORDER CITY	Varchar2	30	-	-	-	✓	-	-
	SUPPLIER_ID	Number	-	-	0	-	✓	-	-
									1 - 6

Conclusion:



Name: Dwarkesh Prakash Waingade

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Subject:RDBMS

Date:

Roll No.:57

ExperimentNo:9

Title: Study of view and indexes in database.

Query:

A. CreatingViews:

```
createviewSupplier12_viewasselectproduct_name,product_pricefromSupplier12;
```

Output:

```
View created.
```

```
0.01 seconds
```

PRODUCT_NAME	PRODUCT_PRICE
apple	2000
Orange	3000
Banana	500
Grapes	2000

B. UpdatingViews:

```
updateSupplier12_viewsetproduct_price=1500whereproduct_name='Grapes';
```

Output:

```
1 row(s) updated.
```

```
0.02 seconds
```

SUPPLIER_ID	PRODUCT_NAME	PRODUCT_PRICE	PRODUCT_QUANTITY
1	apple	2000	12
2	Orange	3000	6
3	Banana	500	12
4	Grapes	1500	12

4 rows returned in 0.00 seconds [CSV Export](#)

B.Deleting views:

Example:

deletefromSupplier12_viewwhereproduct_price=1500;

Output:

1 row(s) deleted.

0.00 seconds

SUPPLIER_ID	PRODUCT_NAME	PRODUCT_PRICE	PRODUCT_QUANTITY
1	apple	2000	12
2	Orange	3000	6
3	Banana	500	12
4	Grapes	1500	12

4 rows returned in 0.00 seconds [CSV Export](#)

INDEXESIN DATABASE:

Creatingindex-createindexSupplier12 indexon

Supplier12(Supplier id,Product name);

Output:

```
Index created.  
0.02 seconds
```

Single-Columnindex:

```
createindexSupplier12_indexonSupplier12(Product_name);
```

Output:

```
Index created.  
0.17 seconds
```

UniqueIndex:

```
createuniqueindexSupplier_index1onSupplier12(Product_name);
```

Output:

```
Index created.  
0.17 seconds
```

CompositeIndex:

```
createindexSupplier_indexonSupplier12(Supplier_id,Product_name);
```

Output:

```
Index created.
```

```
0.02 seconds
```

Droppingindex:

```
dropindexSupplier_index;
```

Output:

```
Index dropped.
```

```
1.78 seconds
```

Conclusion:



Name: Dwarkesh Prakash Waingade

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Class: MCA-I

Roll No.: 57

Subject: RDBMS

Experiment No: 10

Title: WAP to find whether a number is less than or greater than 5. **Query:**

declare

num1 number:=60;

begin if num1 < 10 then dbms_output.put_line('the number ' || num1 || ' is smaller than 10');

elsif num1 > 10

then dbms_output.put_line('the number ' || num1 || ' is greater than 10');

else dbms_output.put_line('the number ' || num1 || ' is a positive 10'); end

if; end;

Output:

Results	Explain	Describe	Saved SQL	History
the number 60 is greater than 10				
Statement processed.				
0.22 seconds				

Conclusion:



Name: Dwarkesh Prakash Waingade

Date:

Class: MCA-I

Roll No.: 57

Subject: RDBMS

Experiment No: 11

Title: WAP to perform various arithmetic operations. **Query:**

A. Addition:

```
Declare      a
integer:=10;b
integer:=20;c
integer;
begin                c:=a+b;
dbms_output.put_line('Addition:' || c);end;
```

Output:

```
Addition:30
Statement processed.

0.00 seconds
```

B. Subtraction:

```
Declare a  
integer:=30;b  
integer:=15;c  
integer;  
begin c:=a-b;  
  
dbms_output.put_line('Subtraction:' || c);  
  
end;
```

Output:

```
Subtraction:15  
  
Statement processed.  
  
0.00 seconds
```

C. Multiplication:

```
Declare a  
integer:=3;b  
integer:=15;  
c integer;  
begin c:=a*b;  
  
dbms_output.put_line('Multiplication:' || c);  
  
end;
```

Output:

```
Multiplication:45  
Statement processed.  
  
0.00 seconds
```

D. Division:

```
Declare a integer:=300;b  
integer:=15;cinteger;beginc:=a/b;  
dbms_output.put_line('Division:' || c);  
end;
```

Output:

```
Division:20  
Statement processed.  
  
0.00 seconds
```

Conclusion:



Name:Dwarkesh Prakash Waingade

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Subject:RDBMS

Date:

Roll No.:57

ExperimentNo:12

Title: WAP to calculate sum of even numbers upto 10.

Query:

```
declare even
```

```
number:=0; i
```

```
number;begin
```

```
foriin1..22
```

```
loop
```

```
if(imod2=0)theneven:=even+i;
```

```
end if;
```

```
endloop;
```

```
dbms_output.put_line('the
```

```
sum of 10 even no
```

```
is:' || even);
```

```
end;
```

Output:

Results	Explain	Describe	Saved SQL	History
the sum of 10 even no is:132				
Statement processed.				
0.09 seconds				

Conclusion:



Name:Dwarkesh Prakash Waingade

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Subject:RDBMS

Date:

Roll No.:57

ExperimentNo:13

Title: WAP to use data type of salary from table(%type attribute).

Theory:

Query:

Declare

```
salaryEmployee.Emp_salary%type;
```

begin

```
insert into Employee(Emp_Name,Dept_No,Emp_salary,Emp_No) values('Vijay',8,18000,9);update
```

```
Employee set Emp_salary=Emp_salary+500 where Emp_No=9;select Emp_salary into salary From
```

```
Employee where Emp_No=9;select Emp_salary into salary From Employee where
```

```
Emp_No=9;dbms_output.put_line('salary updated by' || salary);end;
```

Output:

```
salary updated by18500
```

```
Statement processed.
```

```
1.64 seconds
```

Conclusion:



Name: Dwarkesh Prakash Waingade

Class: MCA-I

Subject: RDBMS

Date:

Roll No.: 57

Experiment No: 14

Title: WAP to insert employee code into employee table (%rowtype attribute).

Theory:

Query:

Declare

Emp Employee%Rowtype;

begin

Emp.Emp_Name:='Aditya';

Emp.Dept_No:=1;

Emp.Emp_Salary:=15000;Emp.Emp_No:=3;

insert into Employee(Emp_Name,Dept_No,Emp_Salary,Emp_No)
values(Emp.Emp_Name,Emp.Dept_No,Emp.Emp_Salary,Emp.Emp_No);

dbms_output.put_line('record inserted in the table');end;

Output:

```
record inserted in the table  
Statement processed.  
  
0.02 seconds
```

Conclusion:



Name:Dwarkesh Prakash Waingade

Class:MCA-I

Subject:RDBMS

Date:

Roll No.:57

ExperimentNo:15

Title: WAPapl/sqlcodetocheckwhetheranumberisevenorodd. **Theory:**

Query:

declare

--Declarevariablen,s,r,len

--andmofdatatypenumber n

number := 3268; r

number;begin

r:=MOD(n,2);ifr=0 THEN

dbms_output.Put_line('Even');

else

dbms_output.Put_line('Odd');

end if;end;

Output:

Even

Statement processed.

0.00 seconds

Conclusion:



Name:Dwarkesh Prakash Waingade

Class:MCA-I

Subject:RDBMS

Date:

Roll No.:57

ExperimentNo:16

Title:WAPtofindgradesofastudent.

Query:

```
declaregrd
CHAR(1);
begin  grd:=
'A'; casegrd

when 'A' then dbms_output.Put_line('Your Grade is: Outstanding');

when 'B' then dbms_output.Put_line('Your Grade is: Excellent');

when 'C' then dbms_output.Put_line('Your Grade is: Very Good');

when 'D' then dbms_output. Put_line('Your Grade is: Average');

when 'F' then dbms_output.Put_line('Your Grade is: Poor');

elsedbms_output.Put_line('Nosuchgradeinthelist.');
```

end case; end;

Output:

```
Your Grade is: Outstanding
Statement processed.

0.30 seconds
```

Conclusion:



Name: Dwarkesh Prakash Waingade

Date:

Class:MCA-I

Roll No.:57

Subject:RDBMS

ExperimentNo:17

Title:WriteaPL/SQLcodewhichexplainstheusageofno_data_foundexception. **Query:**

```
l_nameEmployee.Emp_Name%type;l_Emp_id  
Employee.Emp_Id%type:=102;  
  
begin  
  
--getthecustomer  
  
selectEmp_Nameinto l_NameFromEmployeeewhereEmp_Id=l_Emp_id;  
  
--showthecustomernamedbms_output.put_line('EmployeeNameis: '||l_name);  
  
exception  
  
WHENNO_DATA_FOUNDTHE  
  
dbms_output.put_line('Employee'||l_Emp_id||'numberdoesnotexist');end;
```

Output:

```
Employee Name is :Siddharth  
Statement processed.  
  
0.03 seconds
```

Conclusion:



Name: Dwarkesh Prakash Waingade

Class:MCA-I

Subject:RDBMS

Date:

Roll No.:57

ExperimentNo:18

Title: WAP to find the greatest number among three numbers.

Theory:

Query:

declare

a number:=60;

b number := 88; cnumber:=75;

begin

 if a > b and a > c then

dbms_output.Put_line('Greatest number is' || a);

 elsif b > a and b > c then

dbms_output.Put_line('Greatest number is' || b);

 else

 dbms_output.Put_line('Greatest number is' || c);

 end if;

end;

Output:

```
Greatest number is 88
Statement processed.

0.03 seconds
```

Conclusion:



Name: Dwarkesh Prakash Waingade

Class: MCA-I

Subject: RDBMS

Date:

Roll No.: 57

Experiment No: 19

Title: Write a PL/SQL code to demonstrate the predefined exception in a program. **Theory:**

Query:

Declare a

number;

b number;

c number;

begin a := a; b := b;

c := a/b;

dbms_output.put_line('c is: ' || c); end;

Output:

		Submit
:A	<input type="text" value="30"/>	
:B	<input type="text" value="0"/>	

ORA-01476: divisor is equal to zero	
0.14 seconds	

Conclusion:

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Name:Dwarkesh Prakash Waingade

Class:MCA-I

Subject:RDBMS

Date:

Roll No.:57

ExperimentNo:20

Title:writeapl/sqlcodetoremoveproblem inprogram10.

Query:

```
Declarea number;b number;c number;
```

```
begin a:=a;b:=b;
```

```
c:=a/b;dbms_output.put_line('C is:' || c);
```

```
exception when zero_divide then
```

```
dbms_output.put_line('division of any number by zero will raise a problem, verify input values.');
```

Output:

		Submit
A	<input type="text" value="30"/>	
B	<input type="text" value="10"/>	

```
C is:3
Statement processed.
0.05 seconds
```

Conclusion:



Name:Rutuja Anandrao Patil

Class:MCA-I

Subject:RDBMS

Date:

Roll No.:23

ExperimentNo:21

Title:write a pl/sqlcode which handles more than one exception.

Query:

Declare

Name Employee.Emp_Name%type;

begin

select Emp_Name into Name From Employee where Dept_No=6;

dbms_output.put_line('Employee name is:' || Name);exception when zero_divide

then

dbms_output.put_line('Not Possible!');

when too_many_rows then

dbms_output.put_line('More than 1 row is returned.');

when others

then
dbms_output.put_line('No data found.');

Output:

```
Employee name is: Ajay  
Statement processed.  
0.40 seconds
```

Conclusion:



Name:Dwarkesh Prakash Waingade

Class:MCA-I

Subject:RDBMS

Date:

Roll No.:57

ExperimentNo:22

Title:writeapl/sqlcodewhichexplaintheusageofNO_DATA_FOUNDEXception.

Theory:

Query:

Declare

```
ENameEmployee.Emp_Name%TYPE;
```

```
Emp_id1Employee.Emp_No%TYPE:=Emp_No; Begin
```

```
SELECTEmp_NameINTOEName
```

```
FROM Employee
```

```
WHEREEmp_No=Emp_id1;
```

```
-- show the customer name      dbms_output.put_line('Employee  
name is ' || EName);
```

```
EXCEPTION
```

```
WHENNO_DATA_FOUNDTHE
```

```
dbms_output.put_line('Employee' || Emp_id1 || 'doesnotexist' || 'NODataFound'); end;
```

Output:

<pre>:EMP_NO 2</pre>	<input type="button" value="Submit"/>
----------------------	---------------------------------------

Employee name is Shubham

Statement processed.

0.08 seconds

Conclusion:



Name:Rutuja Anandrao Patil

Class:MCA-I

Subject:RDBMS

Date:

Roll No.:23

ExperimentNo:23

Title:writeapl/sqlcodethatusesimplicitcursorattributesinthisprogramupdatesalaryof employee, if the salary is not updated then display message for that.

Theory:

Query:

```
declarerows
```

```
number(5);
```

```
beginupdateEmployeeSetEmp_Salary=Emp_Salary+1000; if
```

```
SQL%NOTFOUND then
```

```
dbms_output.put_line('noneofthesalarieswereupdated');
```

```
elsifSQL%FOUNDthenrows:=
```

```
SQL%ROWCOUNT;
```

```
dbms_output.put_line('salariesof' || rows || 'employeeareupdated'); end
```

```
if;end;
```

Output:

```
salaries of5employee are updated
1 row(s) updated.
0.36 seconds
```

Conclusion:

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Name: Dwarkesh Prakash Waingade

Class: MCA-I

Subject: RDBMS

Date:

Roll No.: 57

Experiment No: 24

Title: write a PL/SQL code that returns the total no. of rows that are updated using ROWCOUNT attribute.

Query:

```
Declare begin update Employees set Emp_Salary = Emp_Salary * 2 where
```

```
Emp_No = 2; dbms_output.put_line('record updated=' ||
```

```
SQL%ROWCOUNT); end;
```

Output:

```
record updated= 1
Statement processed.

0.03 seconds
```

Conclusion:



Name: Dwarkesh Prakash Waingade

Date:

Class: MCA-I

Roll No.: 57

Subject: RDBMS

Experiment No: 25

Title: Write a PL/SQL code to delete a record from a table, if delete operation succeeds the insert operation.

Query:

Declare begin

```
delete from Employee where Emp_No=:Emp_No; if  
SQL%FOUND then
```

```
dbms_output.put_line('Record found & deleted');  
insert into Employee values('Saurabh',3,15000,5);  
else dbms_output.put_line('record not found'); end  
if; end;
```

Output:

EMP_NO

5

Submit

```
record not found  
Statement processed.  
2.08 seconds
```

Conclusion:



Name:Dwarkesh Prakash Waingade

Class:MCA-I

Subject:RDBMS

Date:

Roll No.:57

ExperimentNo:26

Title:Writea PL/SQLcodeto demonstratetheexception.

Query:

Select*fromEmployee;

Output:

EMP_NAME	DEPT_NO	EMP_SALARY	EMP_NO	EMP_ID
Suraj	5	31000	4	1
Omkar	4	11000	6	2
Shubham	7	32000	2	101
Ajay	6	21000	1	50
Vijay	8	17000	7	25
Aditya	1	15000	3	3
Siddharth	2	10000	-	102

7 rows returned in 0.00 seconds [CSV Export](#)

A. Code:

DeclareBegin

insertintoEmployee(Emp_Name,Emp_Salary,Emp_Id)values('Vishal',12000,101);exception

WHENDUP_VAL_ON_INDEXTHEN

dbms_output.put_line('Primarykeycannotbeduplicate.');

Output:

```
Primary key cannot be duplicate.  
Statement processed.  
  
0.31 seconds
```

Conclusion:



Name:Dwarkesh Prakash Waingade

Date:

Class:MCA-I

Roll No.:57

Subject:RDBMS

ExperimentNo:27

Title:Create a user defined exception which checks the name of the employee is blank during the insertion. If you left the name blank it will raise error.

Theory:

Query:

declare

eno emp1.emp_id%type; name

emp1.emp_name%type;

name_exception exception;

begin eno:=eno;

name:=name;

if name is null then raise

name_exception;

endif;

insert into emp1(emp_id,emp_name) values(en,name);

dbms_output.put_line('Data entered into the row. '); exception

when name_exception then

dbms_output.put_line('Name should not be empty. '); end;

Output:

127.0.0.1:8080/apex/f?p=4500:138:2019270000886016:::

A

Submit

:ENO 10

:NAME omkar

Results	Explain	Describe	Saved SQL	History
Data entered into the row.				
Statement processed.				
0.73 seconds				

Conclusion:



Name: Dinesh Ramesh Pawar

Class: MCA-I

Subject: RDBMS

Date:

Roll No.: 24

Experiment No: 28

Title: Write a PL/SQL code to display the information of the employee table with %NOTFOUND attribute.

Query:

Select * from emp1;

Output:

Results	Explain	Describe	Saved SQL	History
EMP_ID	EMP_NAME	EMP_DEPARTMENT	EMP_PHONENO	EMP_SALARY
1	shubham	HR	9503899551	80000
2	suraj	sales	9803899551	90000
3	vikas	manager	8803899551	85000
4	arshad	HR	9003899551	95000
5	ajay	sales	703899551	75000
10	omkar	-	-	-

6 rows returned in 0.00 seconds [CSV Export](#)

A. Code:

```
declare eid emp1.emp_id%type; name
emp1.emp_name%type; salary
emp1.emp_salary%type;
cursor cursor1 is select emp_id, emp_name, emp_salary from emp1;
begin open cursor1; loop
fetch cursor1 into eid, name, salary; exit when
cursor1%NOTFOUND;
dbms_output.put_line('emp_id=' || eid || '||'emp_name=' || name || '||'emp_
salary=' || salary); end
loop; close cursor1; end;/
```

Output:

Results	Explain	Describe	Saved SQL	History
<pre>emp_id= 1 emp_name= shubham emp_salary=80000 emp_id= 2 emp_name= suraj emp_salary=90000 emp_id= 3 emp_name= vikas emp_salary=85000 emp_id= 4 emp_name= arshad emp_salary=95000 emp_id= 5 emp_name= ajay emp_salary=75000 emp_id= 10 emp_name= omkar emp_salary= Statement processed. 0.38 seconds</pre>				

Conclusion:



Name:DineshRameshPawar

Date:

Class:MCA-I

Roll No.:24

Subject:RDBMS

ExperimentNo:29

Title:WriteaPL/SQLcodetodisplaytheinformationofagivendepartment. **Query:**

Select*fromemp1;

Output:

Results	Explain	Describe	Saved SQL	History
EMP_ID	EMP_NAME	EMP_DEPARTMENT	EMP_PHONENO	EMP_SALARY
1	shubham	HR	9503899551	80000
2	suraj	sales	9803899551	90000
3	vikas	manager	8803899551	85000
4	arshad	HR	9003899551	95000
5	ajay	sales	703899551	75000
10	omkar	-	-	-

6 rows returned in 0.00 seconds [CSV Export](#)

A. Code:

declare

cursorcursor2isselectemp_id,emp_name,emp_salaryfromemp1

where emp_department = :emp_department;

name emp1.emp_name%type;

eid emp1.emp_id%type; salary

emp1.emp_salary%type;

begin open cursor2; loop fetch

cursor2intoname,eid,salary;exit

when cursor2%NOTFOUND;

dbms_output.put_line('emp_id='||eid||'|'|'emp_name='||'|'|name||'|'|'emp_salary='||salary);end loop;

close cursor2; end;

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Output:

Results	Explain	Describe	Saved SQL	History
Statement processed.				
0.01 seconds				

Conclusion:



Name: Dinesh Ramesh Pawar

Class: MCA-I

Subject: RDBMS

Date:

Roll No.: 24

Experiment No: 30

Title: Write a PL/SQL code to increase the salary of the employees if the post is of 'clerk', his or her salary will be doubled and if the post is of 'salesman' he or she will get the increment of 5%.

Query:

Select * from emp1;

Output:

EMP_NAME	DEPT_NO	EMP_SALARY	EMP_NO	EMP_ID	EMP_DEPT
Suraj	5	31000	4	1	R&D
Omkar	4	11000	6	2	Clerk
Shubham	7	64000	2	101	Operation dept
Ajay	6	21000	1	50	Production dept
Vijay	8	17000	7	25	salesman
Aditya	1	7500	3	3	Marketing
Siddharth	2	10000	-	102	Administrative

7 rows returned in 0.00 seconds [CSV Export](#)

A. Code:

declare

cursor cursor3 is select Emp_Id, Emp_Name, Emp_Salary, Emp_Dept from Employee; eid

Employee.Emp_Id%type:=2; name Employee.Emp_Name%type; salary

Employee.Emp_Salary%type; post Employee.Emp_Dept%type;

begin open

cursor3; loop

fetch cursor3 into eid, name, salary, post; exit

when cursor3%NOTFOUND;

if post='clerk' then

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```
updateEmployeeesetEmp_Salary=Emp_Salary*2whereEmp_Id=eid;elsif  
post='salesman' then
```

```
updateEmployeeesetEmp_Salary=Emp_Salary*0.5whereEmp_Id=eid;end if;  
end loop; close cursor3; end;
```

Output:

```
Statement processed.
```

```
0.02 seconds
```

EMP_NAME	DEPT_NO	EMP_SALARY	EMP_NO	EMP_ID	EMP_DEPT
Suraj	5	31000	4	1	R&D
Omkar	4	11000	6	2	Clerk
Shubham	7	64000	2	101	Operation dept
Ajay	6	21000	1	50	Production dept
Vijay	8	8500	7	25	salesman
Aditya	1	7500	3	3	Marketing
Siddharth	2	10000	-	102	Administrative

7 rows returned in 0.00 seconds [CSV Export](#)

Conclusion:



Name:DineshRameshPawar

Class:MCA-I

Subject:RDBMS

Date:

Roll No.:24

ExperimentNo:31

Title: Write a PL/SQL code to find the sum of two numbers.

Query:

```
DECLARE a
NUMBER;b
NUMBER;c
NUMBER;
BEGIN

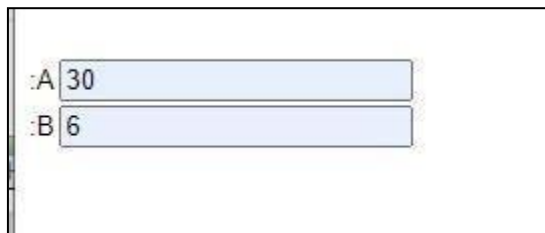
a:=a;

b:=b;

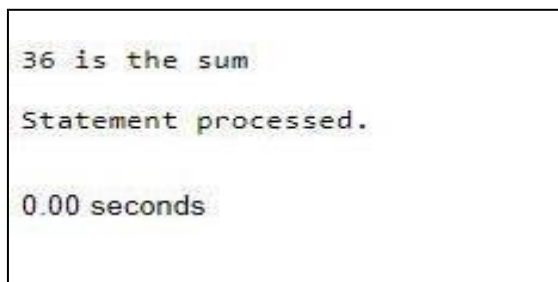
C:=a+b;

DBMS_OUTPUT.PUT_LINE(c || 'is the sum');end;
```

Output:



```
:A 30
:B 6
```



```
36 is the sum
Statement processed.
0.00 seconds
```

Conclusion:



Name:DineshRameshPawar

Class:MCA-I

Subject:RDBMS

Date:

Roll No.:24

ExperimentNo:32

Title: Write a PL/SQL code to find out the salary of an employee if salary is less than 18000 of employee no.7, then add RS 1000 to the original salary of that employee.

Query:

```
select * from Employee;
```

Output:

EMP_NAME	DEPT_NO	EMP_SALARY	EMP_NO	EMP_ID
Suraj	5	31000	4	-
Omkar	4	11000	6	-
Shubham	7	32000	2	101
Ajay	6	21000	1	-
Vijay	8	16000	7	-
Aditya	1	15000	3	-
Siddharth	2	10000	-	102

7 rows returned in 0.00 seconds [CSV Export](#)

Code:

```
DECLARE
```

```
Salary NUMBER;
```

```
BEGIN
```

```
SELECT Emp_Salary INTO Salary FROM Employee WHERE Emp_No=7; IF
```

```
Salary < 18000 THEN
```

```
GOTO Vijay;
```

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ELSE

DBMS_OUTPUT.PUT_LINE('SALARYIS' || Salary);

END IF;

<<Vijay>>

UPDATEEmployeeSETEmp_Salary=Emp_Salary+1000WHEREEmp_No=7; END;

Output:

Statement processed.

0.08 seconds

select*fromEmployee;

Output:

EMP_NAME	DEPT_NO	EMP_SALARY	EMP_NO	EMP_ID
Suraj	5	31000	4	-
Omkar	4	11000	6	-
Shubham	7	32000	2	101
Ajay	6	21000	1	-
Vijay	8	17000	7	-
Aditya	1	15000	3	-
Siddharth	2	10000	-	102

7 rows returned in 0.00 seconds

[CSV Export](#)

Conclusion:



Name:DineshRameshPawar

Class:MCA-I

Subject:RDBMS

Date:

Roll No.:24

ExperimentNo:33

Title: Write a PL/SQL code to find out factorial of a number.

Query:

Declare

Nnumber;

I number:=1;

FACTNUMBER:=1;

BEGIN

N:=:N;

WHILEI<NLOOP

FACT:=FACT*I;

I:=I+1;

DBMS_OUTPUT.PUT_LINE('FACTORIALIS=' || FACT);

END LOOP;

END;

Output:

N 5

```
FACTORIAL IS=1  
FACTORIAL IS=2  
FACTORIAL IS=6  
FACTORIAL IS=24
```

```
Statement processed.
```

```
0.00 seconds
```

Conclusion:



Name:DineshRameshPawar

Class:MCA-I

Subject:RDBMS

Date:

Roll No.:24

ExperimentNo:34

Title:WriteaPL/SQLcodetoperformarithmeticoperationsonsome data.

Theory:

Query:

DECLARE

A NUMBER;

B NUMBER;

C NUMBER;

D NUMBER;

BEGIN

A:=A;

B:=B;

D:=D;

IF D=1 THEN

C:=A+B;

ELSIF D=2 THEN

C:=A-B;

ELSIF D=3 THEN

C:=A*B;

ELSIF D=4 THEN

C:=A/B;

DBMS_OUTPUT.PUT_LINE('ENTER VALID NUMBER');

END IF;

DBMS_OUTPUT.PUT_LINE(C || ' IS THE RESULT');

END;

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Output:

```
:A 50
:B 10
:D 3
```

```
500 IS THE RESULT
Statement processed.

0.03 seconds
```

Conclusion:



Name:DineshRameshPawar

Class:MCA-I

Subject:RDBMS

Date:

Roll No.:24

Experiment No: 35

Title: Write a PL/SQL code to remove problem in program.

Query:

```
Declare a number;
```

```
b number;
```

```
c number;
```

```
begin a:=a;b:=b;c:=a/b;
```

```
dbms_output.put_line(''||c);exception
```

```
WHEN ZERO_DIVIDE THEN
```

```
dbms_output.put_line('Divid by zero not valid');end;
```

Output:

:A 6

:B 0

Divid by zero not valid

Statement processed.

0.00 seconds

Conclusion: