

DATA DEVELOPMENT LIFE CYCLE

EX NO: 1, (A)

1. CREATE

Creating a Database

Syntax : CREATE DATABASE <DB_NAME>;

Example : CREATE DATABASE Test;

Creating a Table

Command : CREATE

Purpose : To create objects in the database

Syntax : CREATE TABLE table_name (column_name1 data_type,column_name2 data_type, column_name3 data_type,...);

Example : create table emp11(emp_namevarchar(20),emp_phonenumber(10),emp_addr varchar(30));

Sample output: Table created.

2. ALTER

Command : ALTER

Purpose : Alters the structure of the database

Syntax :

i) To add a column in a table

ALTER TABLE table_name ADD column_name datatype;

Example1: alter table emp11 add emp_id varchar(20);

Sample output: Table altered.

Example2: alter table emp11 add emp_salary number(10);

Sample output: Table altered.

ii) To delete a column in a table

ALTER TABLE table_name DROP COLUMN column_name;

Example: alter table emp11 drop column emp_salary;

Sample output: Table altered.

iii) To change the data type of a column in a table

ALTER TABLE table_nameMODIFY column_name datatype;

Example: alter table emp11 modify emp_id number(10);

Sample output: Table altered.

3. RENAME

Command	: RENAME
Purpose	: Rename an object
Syntax	: RENAME old_table_name to new_table_name;
Example	: rename emp11 to emp123;
Sample output	: Table renamed.

4. DESCRIBE

Command	: DESCRIBE
Purpose	: Describes the structure of the table
Syntax	: Desc table_name;
Example	: desc emp11;

Sample output:

Name	Null?	Type
<hr/>		
EMP_NAME		VARCHAR2(20)
EMP_PHONE		NUMBER(10)
EMP_ADDR		VARCHAR2(30)
EMP_ID		NUMBER(10)
EMP_SALARY		NUMBER(10)

5. DROP

Command	: DROP
Purpose	: Delete objects from the database
Syntax	: DROP TABLE table_name;
Example	: drop table emp123;

Sample output : Table dropped.

6. TRUNCATE

Command : TRUNCATE

Purpose : Remove all records from a table, including all spaces allocated for the records are removed

Syntax : TRUNCATE TABLE table_name;

Example : truncate table emp123;

Sample output : Table truncated.

EX NO: 1(B)

1. INSERT

Command : INSERT

Purpose : Insert data into a table.

Syntax :

i) To insert one row at a time

INSERT INTO table_name VALUES (value1, value2, value3,...);

Example : insert into emp123values('Ram',9787563641,'India');

Sample output: 1 row created.

ii) To insert many rows at a time

INSERT INTO table_name values (&column1,&column2,...);

Example : insert into emp123values('&emp_name','&emp_phone','&emp_addr');

Enter value for emp_name: Joseph

Enter value for emp_phone: 9787654123

Enter value for emp_addr: Tamilnadu

old 1: insert into emp123 values('&emp_name','&emp_phone','&emp_addr')

new 1: insert into emp123 values('Joseph','9787654123','Tamilnadu')

Sample output: 1 row created.

iii) Inserting Data's in specified columns:

INSERT INTO table_name(col1,col2,.....,coln) VALUES(val1,val2,.....,valn);

2. UPDATE

Command : UPDATE

Purpose : Updates existing data within a table.

Syntax : UPDATE table_name SET column1=value, column2=value2,...
WHERE (condition);

Example : update emp123 set emp_id=40 where emp_addr='Tamilnadu';

Sample output: 1 row updated.

3. DELETE

Command : DELETE

Purpose : Deletes all records from a table, the space for the records remain.

Syntax : DELETE FROM table_name WHERE (condition);

Example : delete from emp123 where emp_id=30;

Sample output : 1 row deleted.

4. SELECT

Command : SELECT

Purpose : fetch the data from a table which returns data in the table.

Syntax : SELECT column1, column2, columnN FROM table_name;

Example1 : Select * from customers;

Sample output:

+-----+-----+-----+-----+

ID	NAME	AGE	ADDRESS	SALARY
1	Ramesh	32	Ahmedabad	2000.00
2	Khilan	25	Delhi	1500.00
3	kaushik	23	Kota	2000.00
4	Chaitali	25	Mumbai	6500.00

Example2 : Select id, name, salary from customers;

Sample output:

ID	NAME	SALARY
1	Ramesh	2000.00
2	Khilan	1500.00
3	kaushik	2000.00
4	Chaitali	6500.00

5. Group by

Command : GROUP BY

Purpose : Group the collection of values based on an object.

Syntax : select obj.name/col. Name sum () / count ().... from table_name group by (obj.name/col.name);

Example : select rollno, sum (hscmarks) from student group by (rollnumber);

Sample output:

rollno	SUM(HSCMARKS)
45	34
56	30
89	56

6. Having clause

Command : HAVING

Purpose : Filters the data on the group row but not on the individual row.

Syntax :

```
SELECT column_name(s)
FROM table_name
WHERE condition
GROUP BY column_name(s)
HAVING condition
ORDER BY column_name(s);
```

Example : select rollnumber,sum((hscmarks*.30)+hscmarks) from student group by(rollnumber) having sum(hscmarks)<50;

Sample output:

```
ROLLNUMBER SUM((HSCMARKS*.30)+HSCMARKS)
```

1	15.6
45	44.2
56	39

DESIGN AN ER DIAGRAM

EX.NO: 2

AIM: Analyze the problem and come with the entities in it. Identify what Data has to be persisted in the databases.

The Following are the entities:

1 .Bus

2. Reservation

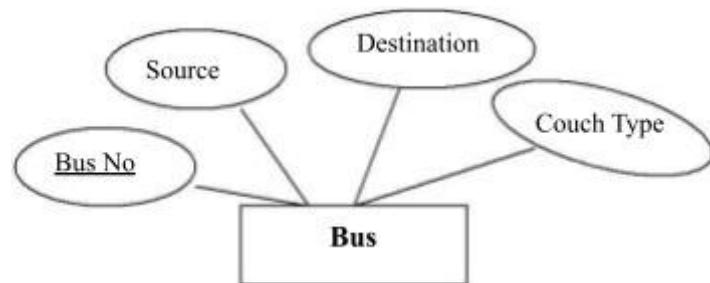
3. Ticket

4. Passenger

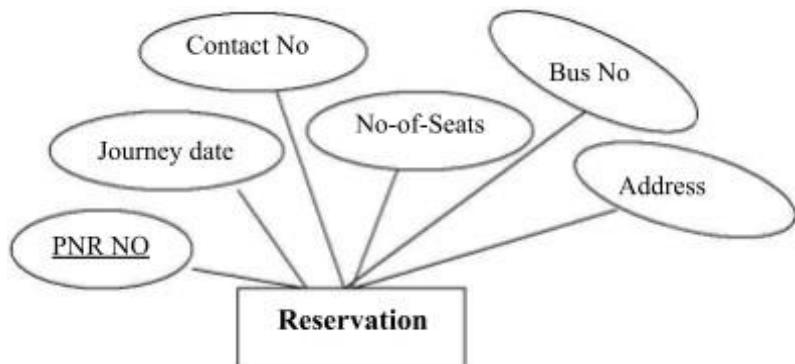
5. Cancellation

The attributes in the Entities:

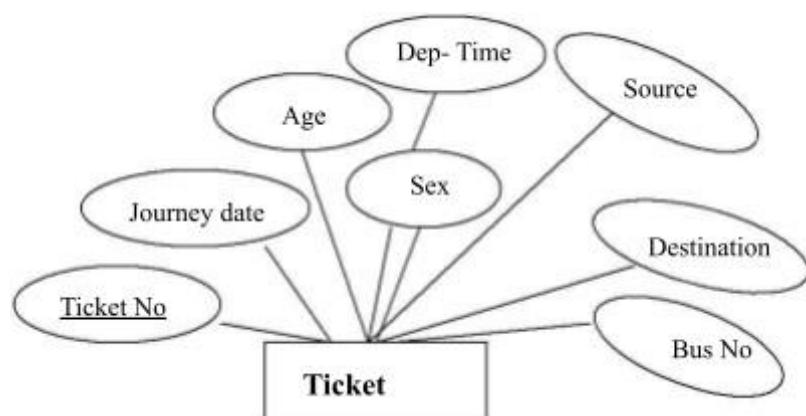
Bus:(Entity)



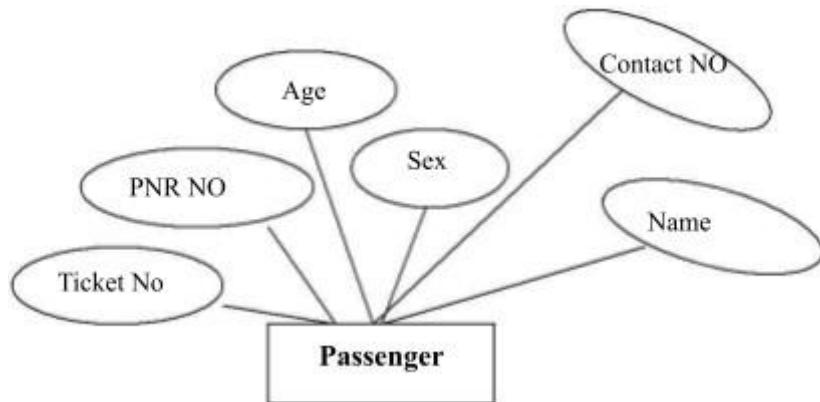
Reservation (Entity)



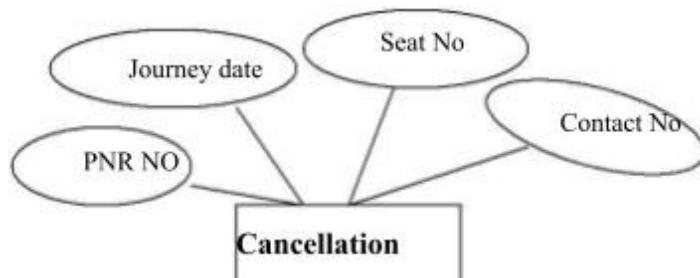
Ticket :(Entity)



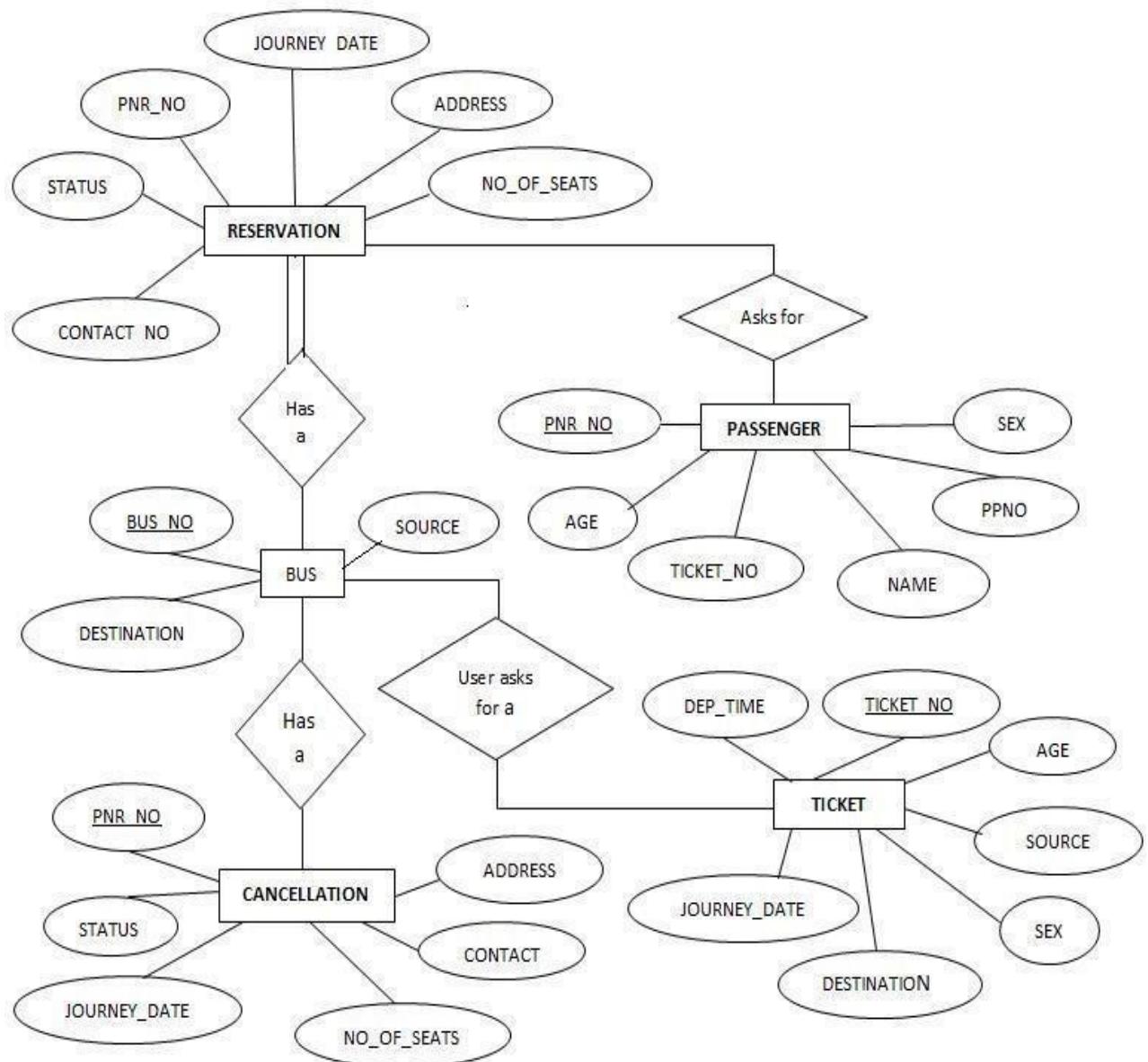
Passenger:



Cancellation (Entity)



Concept design with E-R Model:



RESULT: Thus the program to design a database using ER diagram has been done successfully.

EX.NO: 3

VIEWS, SEQUENCES, SYNONYMS

VIEWS

1. Create Views

Syntax:

```
CREATE VIEW view_name AS SELECT column1,  
column2... FROM table_name WHERE [condition];
```

Example:

Consider the CUSTOMERS table

ID	NAME	AGE	ADDRESS	SALARY
1	Ramesh	32	Ahmedabad	2000.00
2	Khilan	25	Delhi	1500.00
3	kaushik	23	Kota	2000.00
4	Chaitali	25	Mumbai	6500.00
5	Hardik	27	Bhopal	8500.00
6	Komal	22	MP	4500.00
7	Muffy	24	Indore	10000.00

Mysql > create view customers_view as select name, age from customers;

Sample Output: View created.

2. Select Views

Select ALL columns from View

Mysql > select * from customers_view;

Sample Output:

name	age
Ramesh	32
Khilan	25
kaushik	23

Chaitali	25
Hardik	27
Komal	22
Muffy	24
+-----+-----+	

SELECT SPECIFIED COLUMNS FROM VIEW

Mysql > select name from customers_view where age=32;

+-----+-----+

name	age
+-----+-----+	
Ramesh	32
+-----+-----+	

3. DROP VIEW:

Purpose: To delete the table

Syntax: Drop view View_name ;

Example: MYSQL> drop view customers_view ;

Sample output: View dropped.

SEQUENCES

1. Creating Sequences

Syntax:

```
CREATE SEQUENCE sequence_name START WITH initial_value
INCREMENT BY increment_value MINVALUE minimum value
MAXVALUE maximum value CYCLE|NOCYCLE ;
```

Where,

sequence_name: Name of the sequence.

initial_value : Starting value from where the sequence starts.

Initial_value >= minimum value and <= maximum value.

increment_value: Value by which sequence will increment itself.

minimum_value: Minimum value of the sequence.

maximum_value: Maximum value of the sequence.

Cycle : When sequence reaches its set_limit it starts from beginning.

Nocycle : An exception will be thrown if sequence exceeds its max_value.

Example:

```
CREATE SEQUENCE sequence_1
```

start with 1

increment by 1

minvalue 0

maxvalue 100

cycle;

Example to use sequence :

```
CREATE TABLE students( ID number(10),NAME char(20));
```

```
INSERT into students VALUES(sequence_1.nextval,'Ramesh');
```

```
INSERT into students VALUES(sequence_1.nextval,'Suresh');
```

Output:

ID	NAME
1	Ramesh
2	Suresh

SYNONYM

1. Creating Sequences

```
CREATE [OR REPLACE] [PUBLIC] SYNONYM [schema .] synonym_name  
FOR [schema .] object_name [@ dblink];
```

Example:

```
CREATE OR REPLACE PUBLIC SYNONYM suppliers FOR app.suppliers;
```

2. Drop synonym

```
DROP [PUBLIC] SYNONYM [schema .] synonym_name [force];
```

Example:

```
Drop public synonym suppliers;
```

IMPLICIT CURSORS

EX.NO: 4

Write a PL/ SQL code for calculating total mark, percentage, grade for all the students in a student management system using implicit cursors.

SQL> create table student(id number, name varchar2(10), dept varchar2(10), percent number,m1 number,m2 number, m3 number, tot number, g varchar2(1));

Table created.

*SQL> select *from student;*

ID	NAME	DEP	PERCENT	M1	M2	M3	TOT	G
1	Anu	it	0	90	89	80	0	
2	Beena	cse	0	98	91	95	0	
3	Bindhu	it	0	87	67	86	0	
4	Varun	it	0	67	46	50	0	
5	Rahul	cse	0	81	82	83	0	

SQL> declare

```
2      cursor c is select * from student;
3      ctot number;
4      cgpa varchar2(1);
5      cper number;
6      begin
7      for I in c
8      loop
9      ctot:= i.m1+i.m2+i.m3;
10     cper :=ctot/3;
11     update student set tot = ctot where id =i.id;
12     update student set percent = cper where id =i.id;
13     if(cper between 91 and 100)then
14       cgpa:= ‘S’
15     elsif(cper between 81 and 90)then
16       cgpa:= ‘A’
17     elsif(cper between 71 and 80)then
```

```

18  cgra:= 'B'
19  elsif(cper between 61 and 70)then
20  cgra:= 'C'
21  elsif(cper between 56 and 60)then
22  cgra:= 'D'
23  elsif(cper between 50 and 55)then
24  cgra:= 'E'
25  else
26  cgra:= 'F'
27  end if;
28  update student set g = cgra where id =i.id;
29  end loop;
30  end;
31 /

```

PL/ SQL procedure successfully completed.

*SQL> select *from student;*

ID	NAME	DEP	PERCENT	M1	M2	M3	TOT	G
1	Anu	it	86.3333333	90	89	80	259	A
2	Beena	cse	94.6666667	98	91	95	284	S
3	Bindhu	it	80	87	67	86	240	B
4	Varun	it	54.3333333	67	46	50	163	E
5	Rahul	cse	82	81	82	83	246	A

Select * from customers;

ID	NAME	AGE	ADDRESS	SALARY
1	Ramesh	32	Ahmedabad	2000.00
2	Khilan	25	Delhi	1500.00
3	kaushik	23	Kota	2000.00
4	Chaitali	25	Mumbai	6500.00
5	Hardik	27	Bhopal	8500.00
6	Komal	22	MP	4500.00

EXPLICIT CURSORS

EX.NO: 5

SYNTAX:

```
cursor cursor_name is select * from table name;
```

To open the cursor:

```
open cursor_name;
```

To close the cursor:

```
close cursor_name;
```

Exercise:

Write PL/ SQL code for calculating hra , da, netsalary for all the employees in the Payroll Processing using Explicit cursor(uses employee table).

*SQL> select *from employee;*

EMPNO	NAME	HRADA	PF	NETSAL	BASICPAY
101	AAA	0	0	0	15000
102	BBB	0	0	0	18000
103	CCC	0	0	0	20000
104	DDD	0	0	0	10000
105	EEE	0	0	0	25000

SQL> declare

```
2      cursor c is select * from employee;
3      i employee% rowtype;
4      hrasal number;
```

```

5      dasal number;
6      pfsal number;
7      netsalary number;
8      begin
9      open c;
10     loop;
11     fetch c into i;
12     if c% notfound then exit;
13     endif;
14     hrasal:=i.basicpay*0.1;
15     dasal:=i.basicpay*0.08;
16     pfsal:=i.basicpay*0.12;
17     netsalaray:= i.basicpay + hrasal + dasal + pfsal;
18     update employee set hra = hrasal, da= dasal, pf= pfsal, netsal= netsalaray where
empno=i.empno;
19   end loop;
20   close c;
21 end;
22 /

```

PL/ SQL procedure successfully completed.

*SQL> select *from employee;*

EMPNO	NAME	HRA	DA	PF	NETSAL	BASICPAY
101	AAA	1500	1200	1800	15900	15000
102	BBB	1800	1440	2160	19080	18000
103	CCC	2000	1600	2400	21200	20000
104	DDD	1000	800	1200	10600	10000
105	EEE	2500	2000	3000	26500	25000

PROCEDURES AND FUNCTIONS

EX.NO: 6

PROGRAM:

```
declare
e name
varchar2(15);basic
number;
d a number; h r a number;
pfnumber;
net salary number;
yearsalary number;
begin
e name:='&e name';
basic:=&basic; da:=basic *
(30/100); hra:=basic *
(10/100); if (basic < 8000)
then pf:=basic * (8/100);
elsif (basic >= 8000 and basic <= 16000) then
pf:=basic * (10/100);

end if;
netsalary:=basic + da + hra - pf; yearsalary := netsalary*12;

dbms_output.put_line('Employee name : ' || ename); dbms_output.put_line('Providend Fund : ' || pf);
dbms_output.put_line('Net salary : ' || netsalary); dbms_output.put_line('Year salary : '|| yearsalary); end;
/
```

1) Create a function to find the factorial of a given number and hence findNCR.

```
SQL> create or replace function fact(n number) return number
number:=1; i number;
begin
for i in 1..n
loopf:=f*a;
a:=a-1;
end loop;
return f;
end;
/
```

```

SQL> create or replace function ncr(n number ,r number) return number is
n
number:=fact(n);
r1 number:=fact(r);
nr1number:=fact(n-
r); resultnumber;
begin result:=(n1)/(r1*nr1); return result; end;
/

```

1) Print Fibonacci series using localfunctions.

```

sql>create or replace function fib (n positive) return integer is begin if (n
= 1) or (n = 2) then -- terminating condition return
1;else
return fib(n - 1) + fib(n - 2); -- recursive call end if;
endfib;
/

```

-- Test Fibonacci Series:

```
SQL>SELECT fib(1), fib(2), fib(3), fib(4), fib(5) FROM dual;
```

2) write a pl/sql function accept date of birth as "dd-mm-yyyy" and sum all digits till you get single digit number to show as he luckynumber.

```

SQL> set serverout on SQL> declare
l_input varchar2(20) := '31/01/1978';
l_output int;
begin loop
dbms_output.put_line(
');
dbms_output.put_line('l_input='||l_input); l_output := 0;
for i in 1 .. length(l_input) loop
if substr(l_input,i,1) between '0' and '9' then
l_output := l_output + to_number(substr(l_input,i,1));
endif;
end loop; dbms_output.put_line('l_output='||l_output); exit when
l_output < 10; l_input := to_char(l_output);
end loop;
dbms_output.put_line('');
dbms_output.put_line('Lucky='||l_output); end;
/

```

l_input=31/01/1978 l_output=30

l_input=30l_output=3

Lucky=3

PL/SQL procedure successfully completed

RESULT: Thus the program to practice Pl/SQL commands in database has been done successfully.

EX.NO:7

TRIGGERS

1. Create a row level trigger for the customers table that would fire for INSERT or UPDATE or DELETE operations performed on the CUSTOMERS table. This trigger will display the salary difference between the old values and new values:

CUSTOMERS table:

ID	NAME	AGE	ADDRESS	SALARY
1	Alive	24	Khammam	2000
2	Bob	27	Kadappa	3000
3	Catri	25	Guntur	4000
4	Dena	28	Hyderabad	5000
5	Eeshwar	27	Kurnool	6000
6	Farooq	28	Nellur	7000

CREATE OR REPLACE TRIGGER display_salary_changes BEFORE DELETE OR INSERT OR UPDATE ON customers FOR EACH ROW

```
WHEN (NEW.ID > 0) DECLARE
sal_diff number; BEGIN
sal_diff := :NEW.salary - :OLD.salary; dbms_output.put_line('Old salary: ' || :OLD.salary);
dbms_output.put_line('New salary: ' || :NEW.salary); dbms_output.put_line('Salary difference: '
|| sal_diff);
END;
/
```

Trigger created.

Here following two points are important and should be noted carefully:

OLD and NEW references are not available for table level triggers, rather you can use them for record level triggers.

If you want to query the table in the same trigger, then you should use the AFTER keyword, because triggers can query the table or change it again only after the initial changes are applied and the table is back in a consistent state.

Above trigger has been written in such a way that it will fire before any DELETE or INSERT or UPDATE operation on the table, but you can write your trigger on a single or multiple operations, for example BEFORE DELETE, which will fire whenever a

record will be deleted using DELETE operation on the table.

Let us perform some DML operations on the CUSTOMERS table. Here is one INSERT statement, which will create a new record in the table:

```
INSERT INTO CUSTOMERS (ID,NAME,AGE,ADDRESS,SALARY) VALUES (7,  
'Kriti', 22, 'HP', 7500.00 );
```

When a record is created in CUSTOMERS table, above create trigger display_salary_changeswill be fired and it will display the following result:

Old salary:

New salary: 7500 Salary difference:

2) *Convert employee name into uppercase whenever an employee record is inserted or updated. Trigger to fire before the insert or update.*

```
SQL> create table Employee(  
1 ID          VARCHAR2(4 BYTE) NOTNULL,  
2 First_Name   VARCHAR2(10BYTE),  
3 Last_Name    VARCHAR2(10BYTE),  
4 Start_Date   DATE,  
5 End_Date     DATE,  
6 Salary        NUMBER(8,2),  
7 City          VARCHAR2(10BYTE),  
8 Description  
  VARCHAR2(15  
BYTE) 10)
```

11 /

Table created.

```
SQL> CREATE OR REPLACE TRIGGER employee_insert_update  
BEFORE INSERT OR UPDATE ON employee FOR  
EACH ROW 4DECLARE
```

```
5      dup_flag INTEGER; 6BEGIN  
--Force all employee names toupper case.
```

```
:NEW.first_name :=UPPER(:NEW.first_name); 9END;
```

10 /

Trigger created.

```
SQL> insert into Employee(ID, First_Name, Last_Name, Start_Date, End_Date, Salary, City, Description)
2      values('01','Jason',      'Martin',
to_date('19960725','YYYYMMDD'),
to_date('20060725','YYYYMMDD'), 1234.56, 'Toronto', 'Programmer')
3 /
```

1 row created

```
SQL> insert into Employee(ID, First_Name, Last_Name, Start_Date, End_Date, Salary, City, Description)
1 values('02','Alison', 'Mathews', to_date('19760321','YYYYMMDD'),
       to_date('19860221','YYYYMMDD'), 6661.78, 'Vancouver','Tester')
3 /
```

1 row created.

```
SQL> insert into Employee(ID, First_Name, Last_Name, Start_Date, End_Date, Salary, City,
Description)
2      values('03','James',      'Smith',
to_date('19781212','YYYYMMDD'),
to_date('19900315','YYYYMMDD'), 6544.78, 'Vancouver','Tester')
3 /
```

1 row created.

```
SQL> insert into Employee(ID, First_Name, Last_Name, Start_Date, End_Date, Salary, City,
Description)
2      values('04','Celia',      'Rice',
to_date('19821024','YYYYMMDD'),
to_date('19990421','YYYYMMDD'), 2344.78,'Vancouver','Manager')
3 /
```

1 row created.

```
SQL> insert into Employee(ID, First_Name, Last_Name, Start_Date, End_Date, Salary, City, Description)
2      values('05','Robert',
  'Black',to_date('19840115','YYYYMMDD'),
  to_date('19980808','YYYYMMDD'),
  2334.78,'Vancouver','Tester')
3 /
1 row created.
```

```
SQL> insert into Employee(ID, First_Name, Last_Name, Start_Date, End_Date, Salary,
City, Description)
2      values('06','Linda', 'Green',
to_date('19870730','YYYYMMDD'),
to_date('19960104','YYYYMMDD'),
  4322.78,'New York','Tester')
3 /
1 row created.
```

```
SQL> insert into Employee(ID, First_Name, Last_Name, Start_Date, End_Date, Salary,
City, Description)
2      values('07','David', 'Larry',
to_date('19901231','YYYYMMDD'),
to_date('19980212','YYYYMMDD'),
  7897.78,'New York','Manager')3 /
```

1 row created.

SQL> insert into Employee(ID, First_Name, Last_Name, Start_Date, End_Date, Salary, City, Description)

```
2      values('08','James', 'Cat',
           to_date('19960917','YYYYMMDD
           D'),
           to_date('20020415','YYYYMMDD'),
           1232.78,'Vancouver','Tester')
```

3 /1 row created.

SQL> Select * from

Employee 2 /

ID	FIRST_NAME	LAST_NAME	START_DATE	END_DATE	SALARY	CITY	DESCRIPTION
----	------------	-----------	------------	----------	--------	------	-------------

01	JASON	Martin	25-JUL-96	25-JUL-06	1234.56	Toronto	Programmer
02	ALISON	Mathews	21-MAR-76	21-FEB-86	6661.78	Vancouver	Tester
03	JAMES	Smith	12-DEC-78	15-MAR-90	6544.78	Vancouver	Tester
04	CELIA	Rice	24-OCT-82	21-APR-99	2344.78	Vancouver	Manager
05	ROBERT	Black	15-JAN-84	08-AUG-98	2334.78	Vancouver	Tester
06	LINDA	Green	30-JUL-87	04-JAN-96	4322.78	New York	Tester
07	DAVID	Larry	31-DEC-90	12-FEB-98	7897.78	New York	Manager
08	JAMES	Cat	17-SEP-96	15-APR-02	1232.78	Vancouver	Tester

8 rows selected.

SQL> drop table Employee 2 /

Table dropped.

3) Trigger before deleting a record from emp table. Trigger will insert the row to be deleted into another table and also record the user who has deleted therecord.

```
SQL> CREATE OR REPLACE TRIGGER employee_before_delete
  2  BEFORE DELETE
  3  ON employee
  4  FOR EACH ROW
  5  DECLARE
  6    v_username VARCHAR2(10);
  7  BEGIN
  8    -- Find username of person performing the DELETE on the table
  9    SELECT user INTO v_username
 10   FROM dual;
 11   -- Insert record into audit table
 12   INSERT INTO employee_audit (id, salary, delete_date, deleted_by)
 13     VALUES (:old.id, :old.salary, sysdate, v_username);
 14 END;
 15 /
```

Trigger created.

```
SQL> delete from employee; 8
```

rows deleted.

```
SQL> select * from
employee_audit;
```

ID	SALARY	DELETE_DATE	DELETED_BY
01	234.56	09-SEP-06	JAVA2S
02	6661.78	09-SEP-06	JAVA2S
03	6544.78	09-SEP-06	JAVA2S
04	2344.78	09-SEP-06	JAVA2S
05	2334.78	09-SEP-06	JAVA2S
06	4322.78	09-SEP-06	JAVA2S

```
07 7897.78 09-SEP-
06JAVA2S
08 1232.78 09-SEP-
06JAVA2S
```

8 rows selected.

```
SQL>drop table
employee_audit;Table
dropped
```

RESULT: Thus the program to practice triggers in Sql commands in database has been done successfully.

EXP NO: 08

INTRODUCTION TO IDE

AIM: Installation of MySQL

Steps for installing MySQL

Step1:-

Make sure you already downloaded the **MySQL essential 5.0.45 win32.msi file**. Double click on the .msi file.

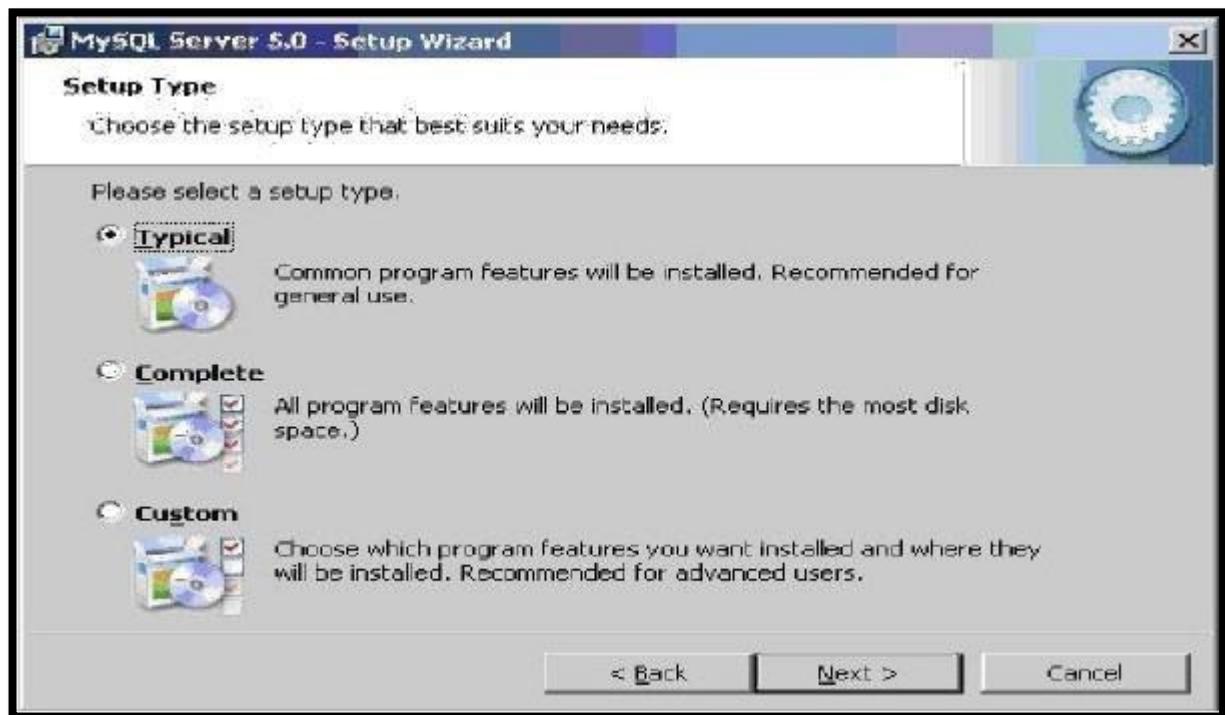
Step2:-

This is MySQL Server 5.0 setup wizard. The setup wizard will install MySQL Server 5.0 release 5.0.45 on your computer. To continue, click **next**.



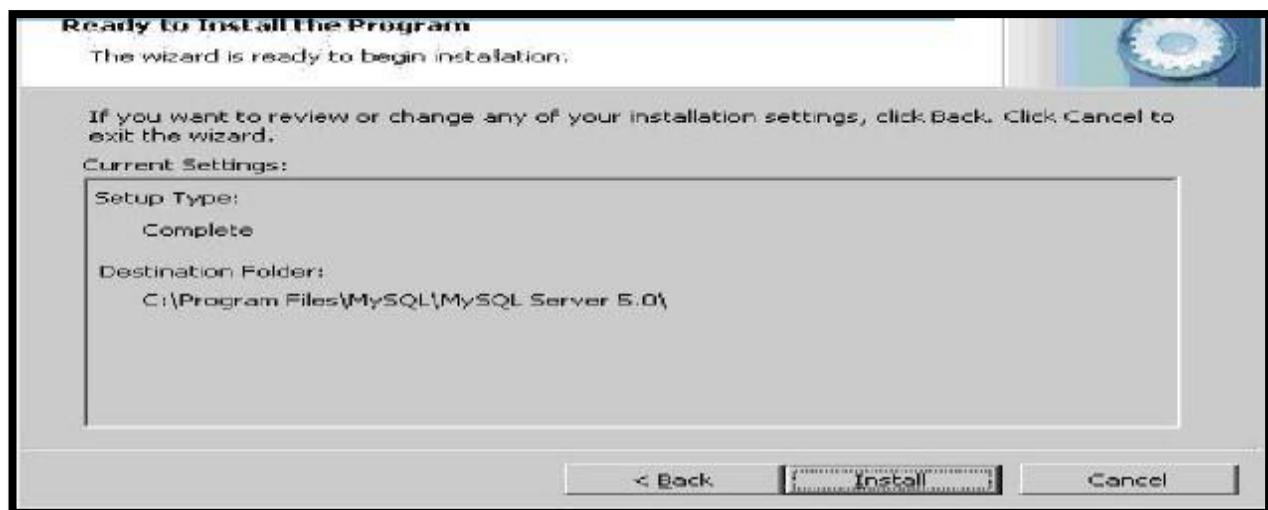
Step3:-

Choose the setup type that best suits your needs. For common program features select **Typical** and it's recommended for general use. To continue, click **next**.



Step4:-

This wizard is ready to begin installation. Destination folder will be in **C:\Program Files\MySQL\MySQL Server 5.0**. To continue, click **next**.



Step5:-

The program features you selected are being installed. Please wait while the setup wizard installs MySQL 5.0. This may take several minutes.



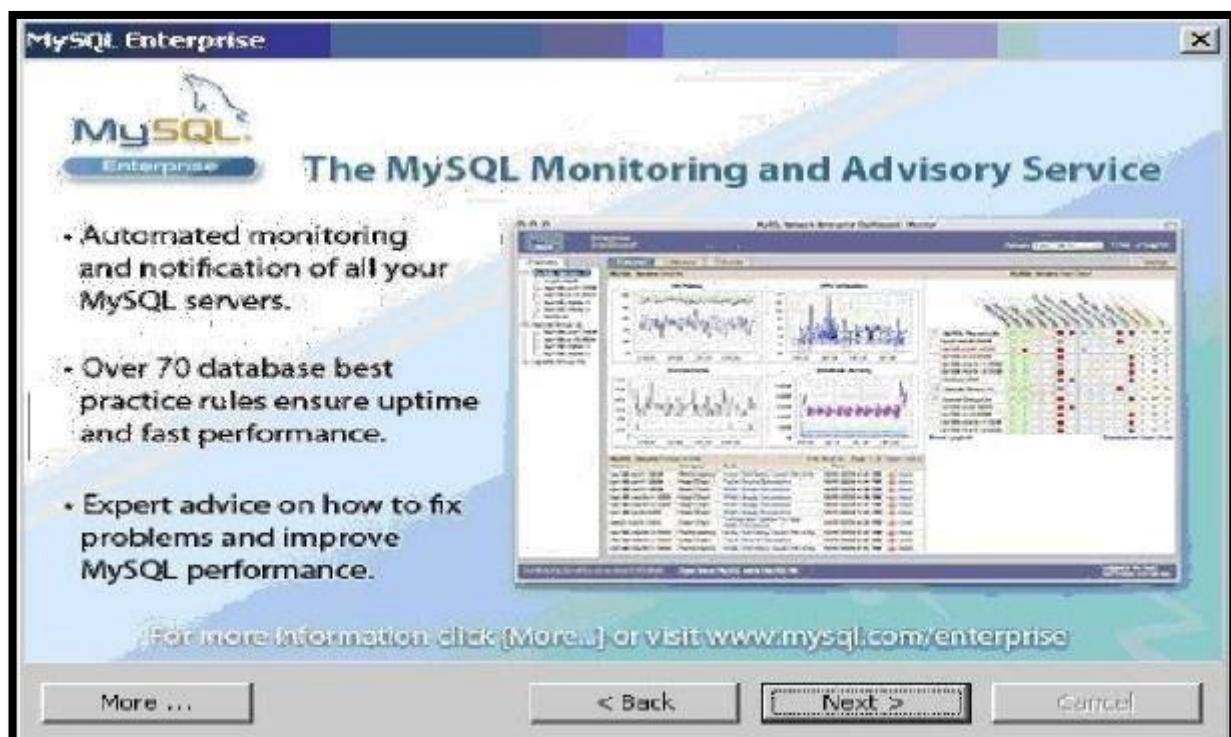
Step6:-

To continue, click **next**.



Step7:-

To continue, click **next**.



Step8:-

Wizard Completed. Setup has finished installing MySQL 5.0. **Check** the configure the MySQL server now to continue. Click **Finish** to exit the wizard



Step9:-

The configuration wizard will allow you to configure the MySQL Server 5.0 server instance. To continue, click **next**.



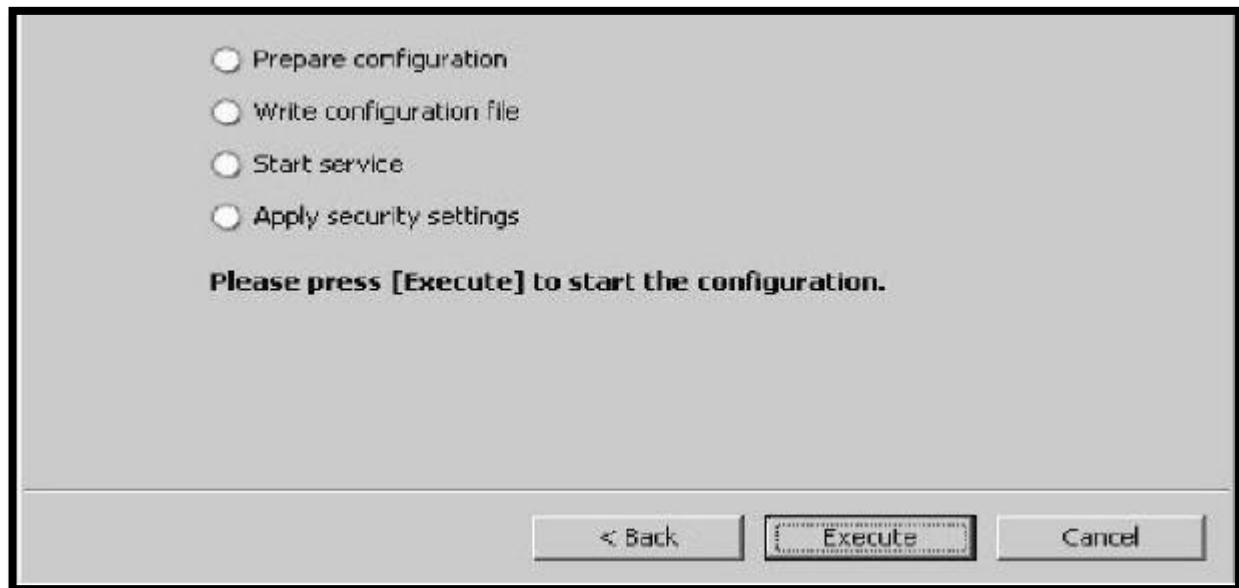
Step10:-

Select a **standard configuration** and this will use a general purpose configuration for the server that can be tuned manually. To continue, click **next**.



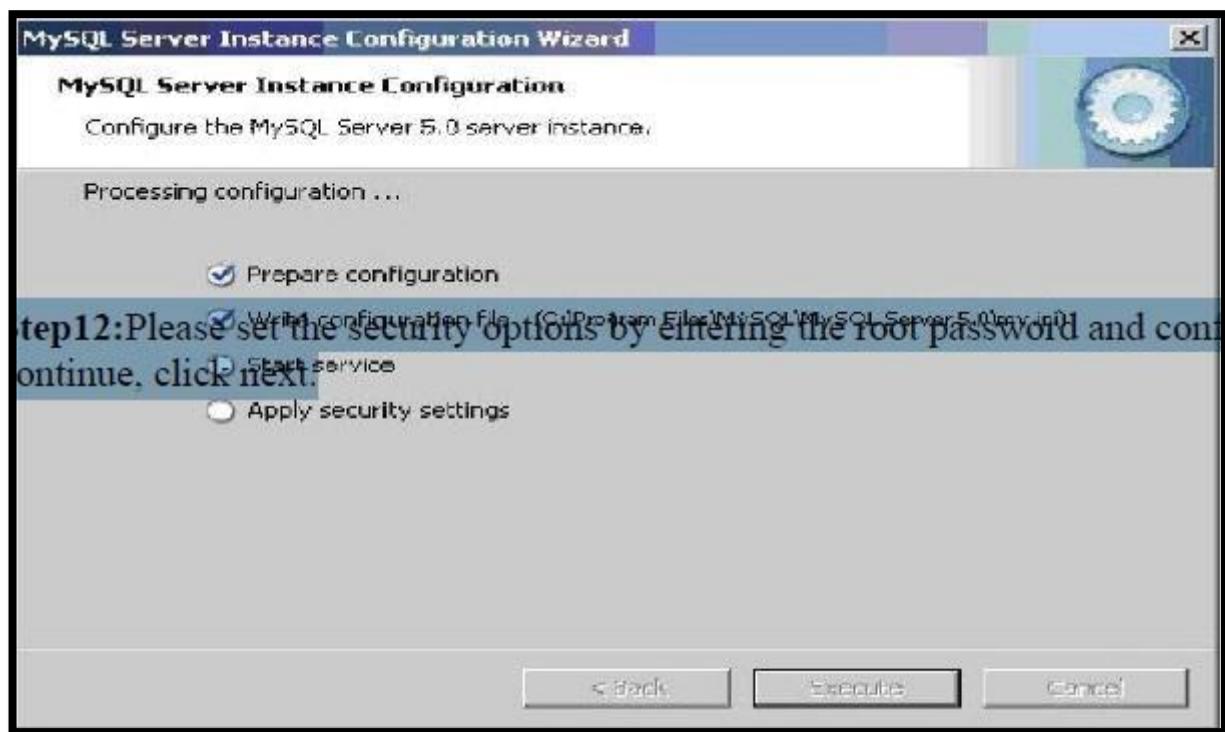
Step11:-

Check on the **install as windows service** and **include bin directory in windows path**. To continue, click **next**



Step12:-

Please set the security options by entering the root password and confirm retype the password. continue, click next.



Step13:-

Ready to execute? Clicks **execute** to continue.

Step14:-

Processing configuration in progress.



Step15:-

Configuration file created. Windows service MySQL5 installed. Press **finish** to close the wizard.

Result:-

Thus the installation of MySql is done successfully.

EX.NO:9

DATABASE CONNECTIVITY WITH FRONT END TOOLS

Coding:-

```
Private Sub ab_Click()
RichTextBox1.SelFontName = "Arial Black"
End Sub

Private Sub bold_Click()
RichTextBox1.SelBold = True
End Sub

Private Sub cb_Click()
RichTextBox1.SelColor = vbblue
End Sub

Private Sub cl_Click()
RichTextBox1.SelColor = vbred
End Sub

Private Sub copy_Click()
Clipboard.SetText "richtextbox1.seltext", 1 'MsgBox Clipboard.GetText
Clipboard.SetText RichTextBox1.SelText, 1 RichTextBox1.SelText =
Clipboard.GetText MsgBox Clipboard.GetText End
Sub

Private Sub eighteen_Click()
RichTextBox1.SelFontSize = 18
End Sub

Private Sub exit_Click()
End
End Sub

Private Sub fcg_Click()
RichTextBox1.SelColor = vbgreen
End Sub

Private Sub fourteen_Click()
RichTextBox1.SelFontSize = 14
```

```
End Sub  
Private Sub helpp_Click()  
ans = MsgBox("visual basic sample notepad !", vbYes + vbInformation, "Help")  
If ans = vbYes Then Unload Me  
End If  
End Sub
```

```
Private Sub italic_Click()  
RichTextBox1.SelItalic = True  
End Sub
```

```
Private Sub MC_Click() RichTextBox1.SelFontName = "Monotype Corsiva" End Sub  
Private Sub new_Click() RichTextBox1 = "" End Sub
```

```
Private Sub open_Click()  
RichTextBox1.LoadFile ("C:\Notepad\Document.rtf")  
End Sub  
Private Sub paste_Click()  
RichTextBox1.SelText = Clipboard.GetText  
End Sub  
Private Sub save_Click()  
RichTextBox1.SaveFile ("C:\Notepad\Document.rtf")  
End Sub  
Private Sub sixteen_Click()  
RichTextBox1.SelFontSize = 16 End Sub  
Private Sub Th_Click()  
RichTextBox1.SelFontName = "Tahoma"  
End Sub  
Private Sub tn_Click()  
RichTextBox1.SelFontName = "Times New Roman"  
End Sub  
Private Sub twele_Click()  
RichTextBox1.SelFontSize = 12 End  
Sub  
Private Sub underline_Click()  
RichTextBox1.SelUnderline = True  
End Sub  
Private Sub vbblue_Click()  
RichTextBox1.SelColor = vbblue  
End Sub  
Private Sub vbgreen_Click()  
RichTextBox1.SelColor = vbgreen  
End Sub
```

```
Private Sub vbred_Click()
RichTextBox1.SelColor = vbred
End Sub
```

EX.NO:10

INVENTORY CONTROL SYSTEM

TABLE NAME:SUPPLIER

```
SQL> create table supplier(supno number(10),supname  
varchar2(20),supdate date, price number(20),quantity number(10),ITEM_NAME VARCHAR2(20));
```

Table created.

```
SQL> insert into supplier values(1,'pit','12-jan-2014',8000,2,'MONITOR'); 1 row created.
```

```
SQL> insert into supplier values(2,'PEC','6-MAR2014',4000,1,'KEYBOARD'); 1  
row created.
```

TABLE NAME:ITEM

```
SQL> CREATE TABLE ITEM(ITEMNO NUMBER(10),ITEM_NAME  
VARCHAR2(10),PRICE NUMBER(10),QUAT_AVAILABLE  
NUMBER(10));
```

Table created.

```
SQL> INSERT INTO ITEM VALUES(101,'MONITOR',80000,3);
```

1 row created.

```
SQL> insert into ITEM VALUES(102,'MOUSE',70000,10);
```

1 row created.

```
SQL>
```

```
COMMIT;
```

```
Commit complete.
```

CODING FORM1:

```
Private Sub Item_Click()  
Form3.Show  
End Sub
```

```
Private Sub  
Supplier_Click()  
Form2.Show  
End Sub
```

FORM2:

```
Private Sub Command1_Click()  
Adodc1.Recordset.AddNew  
Adodc1.Recordset.Fields("supno") = Text1.Text  
Adodc1.Recordset.Fields("supname") = Text2.Text
```

```
Adodc1.Recordset.Fields("supdate") = Text3.Text  
Adodc1.Recordset.Fields("price") = Text4.Text  
Adodc1.Recordset.Fields("quantity") = Text5.Text  
Adodc1.Recordset.Fields("item_name") =  
Text6Text Adodc1.Recordset.Update  
MsgBox "Data Added" End Sub
```

```
Private Sub  
Command10_Click()  
Form3.Show  
End Sub
```

```
Private Sub  
Command3_Click()  
Adodc1.Recordset.Delete  
Adodc1.Recordset.Update  
End Sub
```

```
Private Sub  
Command4_Click() Unload  
Me  
End Sub
```

```
Private Sub Command5_Click()  
If Adodc1.Recordset.EOF =  
False Then  
Adodc1.Recordset.MoveNext  
Else  
MsgBox "END OF FILE!", vbOKOnly, "Warning"  
End If  
End Sub
```

```
Private Sub  
Command6_Click()  
Adodc1.Recordset.MoveFirst  
End Sub
```

```
Private Sub  
Command7_Click()  
Adodc1.Recordset.MoveLast End Sub
```

```
Private Sub Command8_Click()
If Adodc1.Recordset.BOF = False
Then Adodc1.Recordset.MovePrevious
Else
MsgBox "BEGIN OF FILE!!", vbOKOnly, "Warning"
End If
End Sub
```

```
Private Sub
Command9_Click() Form1.Show
End Sub
```

FORM3:

```
Private Sub Command1_Click()
Adodc1.Recordset.AddNew
Adodc1.Recordset.Fields("itemno") = Text1.Text
Adodc1.Recordset.Fields("item_name") = Text2.Text
Adodc1.Recordset.Fields("price") = Text4.Text
Adodc1.Recordset.Fields("quat_available") =
Text5.Text Adodc1.Recordset.Update
MsgBox "Data Added"
End Sub
```

```
Private Sub Command10_Click()
Form2.Show End Sub
```

```
Private Sub
Command3_Click()
Adodc1.Recordset.Delete
Adodc1.Recordset.Update
End Sub
```

```
Private Sub
Command4_Click() Unload
Me
End Sub
```

```
Private Sub Command5_Click()
If Adodc1.Recordset.EOF =
False Then
Adodc1.Recordset.MoveNext
Else
MsgBox "END OF FILE!!", vbOKOnly, "Warning"
End If
End Sub
```

```
Private Sub  
Command6_Click()  
Adodc1.Recordset.MoveFirst  
End Sub
```

```
Private Sub  
Command7_Click()  
Adodc1.Recordset.MoveLast  
  
End Sub
```

```
Private Sub Command8_Click()  
If Adodc1.Recordset.BOF =  
False Then  
Adodc1.Recordset.MovePrevious Else  
MsgBox "BEGIN OF FILE!!", vbOKOnly, "Warning"  
End If  
End Sub
```

```
Private Sub Command9_Click()  
Form1.Show  
End Sub
```

