EMIP

ENAME	SAL	JOB	Dept No.
KTNIC	3000	Clerk	10
KING	5000	Manager	20

```
· delimiter//

Create procedure abcc)

begin

declare x int;

select sal into x from emp

Where ename = 'KING';

/* Processing, e.g. set hra = x * 0.4, etc */

insert into tempp values Cx, 'KING');

end;//

delimiter;
```

· select column name into variable name from ....

```
delimiter//

create procedure abc (y charas).

begin

declare x int;

select sal into xfrom emp

where ename = y;

insert into tempp values (x, 'KING');

end;//

delimiter;

call abc ( KING);
```

call abc (SCOTT);

delimiter// Create procedure abcc) E la principal de la constitución de la constitució begin declare x int; declare y charcis); select sal. Job into x, y from emp where ename = 'KING'; 1. Processing, e.g. set fra = x \* 0.4, lower (y) etc. \*/ insert into tempp values (x, Y); end; 11 delimiter; · declare emptable 1st and then declare x & y accordingly same as emptable # Decision Making cIf statements: delimiter// create procedure abcc) begin declare x int; select sal into x from emp where ename = 'KING'; if x>5000 then insert into tempp values (x, 'High sal'); end ifj else is optional. endil/ if condition then delimiter; . if condition then end if ; end if tempp values (x, 'Low sal'); Snehal Sawant

```
de limiter//
                             (Nested if)
(reate procedure abcc)
   declarge x int;
   select sal into x from emp where ename = 'KING';
   if x >5000 then
      insert into tempp values (x, 'Highsal');
   else
      if x<5000 then
        insert into tempp values (x, 'Low sal');
         insert into tempp values (x, 'Medium sal');
       endif;
end; //
delimiter;
delimiter 11
 (reate procedure abcc)
 begin
   declare & int;
   select sal into x from emp where enome = 'kING';
    1 + x > 5000 then
     insert into tempp values (x, High sal');
    else if xx5000 then
     insport into tempp values ( ], 'Low sal');
      insert into tempp values (x, 1 medium sol');
     else
     end if
end; //
 de limiter;
                                Snehal Sawant
                  end if
```

```
delimiter//
     (reate procedure abc ()
1
declare x boolean default True;
      begin
insert into tempp values (1, 'Mumbai');
        if x then
)
        end if;
)
                      end; 11
)
      delimiter;
9 3
0
     (reate procedure abc()
     delimiter//
) )
3
)
        declare x boolean default false;
      begin
        if not x then
         insert into tempp ralues ( 1, 1 kol kata');
        endif;
      end; 11
      de limiter;
     Loops (for repetitive l'iterative processing).
   1 While loop
    · check for some condition before entering the loop.
      WHILE expression po
      END WHILE;
    delimiter//
    coreate procedure abcc)
        declare x int default 1;
        while x 10 do
          insert into tempp values (x, 'in while loop');
        end while; ((x-1)
                               Snehal Sawant
```

```
delimiter//
(reate procedure abcc)
begin
    declare x int default 1;
   declare int default!
    while x < 10 do
      While 4510 do
         insert into tempp values (y, 'in rloup');
         set y=4+1
       end while;
       insert into tempp values (x, in x loop);
       Set X = x +1;
     end while;
 delimiter;
 Repeat 100p (Similar to Do-While 100p)
 . These is no condition to enter the loop, but there is
  a condition to exit the loop.
 · it will execute at least once (e.g. outerjoin) Master-details
   Repeate
   UNTIL expression-is-not-satisfied
   END Repeat;
 delinaiter/1
 Create procedure abcc)
     declare x int default 1;
     repeat
        insert into tempp values (x, 'inloop');
         set x=x+1;
     untilbers
     end repeat;
  delimiter;
                                Snehal Sawant
```

```
'break' statement of 'C'programming). iteratestatement allows you toskip the entire code
  under it and start a new iteration
  (similar to continue's tatement of 'c' programming)
  · Loop statement executes a block of code repeatedly
  with an additional flexibility of using loop label
delimiter//
(reate procedure abcc)
 begin
     declare x int défault 1;
      P97-100p: 100p.
             if x>10 then
                    leave par-loop;
             end if;
      set x = x+1;
      if mod (x,2) 1 =0 then=
           iterate par-100P;
          insert into tempp values(x, inside loop);
       endif;
  endloop;
  end; 11
  delimiter;
Global Varnables: -
· Ox remains in the RAM till you exit (end of session)
· can be accessed in all procedures.
 set@x = 10;
· Select @x from dual;
 · you will have to create and initialize at the same time.
 'storres are charaterstring.
                                     Snehal Sawant
```

· leave statement allows you to exit the loop (similar to

· Loop, Leave and iterate statements! -

>(+ (eg k = 10) Select @ x from dual; 59+@=@x+1; select @x from dual;

# Carrson - V. V.V. Imp.

			-	TEMPP.
EMPNO.	ENAME	SAL	DEPTNO.	
	A	5000	1	FIR SEC.
2	B	6000		TO Server RAM
3	C	7000		XY 50007
5	P	9000	2	horit
lint	varcham(15)	in 8000	in7	Livid T
		00	110	

· Cursons presents in all RDBMS and some of DBMS, and some the front-ends also.

· types of vaniables.
· carsor can store multiple rows.

MRA\_Calcologo% sal.

declare x int; declare ma float;

select

· similar to 20 array.

cursors are used for storing multiple rows. are used for processing multiple rows.

consors are used for handling multiple rows

cursors are used for storing the data temporority

· declare par consor for select from emp;

· cursor is bosed on select statement.

declare par sursor for select from emp where deptno = 1;

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CONTRACTOR OF STREET

delimiter //	
Create procedure ab(()	
begin declare a int;	
declare à mi	
declare c int;	
declare	
declare d'int;	
declare y int default o;	a in cursor
declare ci cursor for select + from en	10:4
while we have	Canson
while yes do (try yes)	cleclaration
	De fination
processing, eg. set hau = c'o.4, etc	. /
insert into tempp values (a,b); set y = y+1;	
end while;	
al closect; & dose to cursor or	
end; 11 close close to cursor cla free the	ram.
delimiter;	
· open (1; < This will open the cursor c1, it the select statement, and it will populate the server rom. Jopen cursor. HD to re	e carsor cl
Consor 2 Cl  A 5000 Too 1  2 B G000 To a b C  Cursor pointer automatica  1 P 9000 2 Next.  end. E 8000 2 Curter close Cl, frees to	heram,
· closing clisoptional. Inehal	Sawant
· (unson is a read only variable	
· Cursor is a read only variable · data that is present in cursor, it can manipulated.	not be
· you will have to fetch I now at a time in	tosome
intermedicate variables, and do your proc-	essina with
those vanishes	y with
· you can only fetch backward in A Mys	9L cursor.

```
· you can fetch sequentially (topto bottom).

You can only fetch I sow at a time.
 delimiters
 Create procedure abc ()
 begin
   declare
              a int;
   declare
                varchar (15);
   declare
                int;
   declare
              d int;
   declare
                 int default o;
    declarre
               Z int;
              ci cursor from select from emp,
    declare
    select count (*) into z from emp;
    open ci;
                      while 4xz do
      fetch clinto a, b, c, d;
       1 Processing, e.g. set, hora = c*o.4, etc*/
       insert into tempp values (a,b);
      set 4= 4+1;
    end while;
   close c1;
 end; 11
delimiter;
HE continue handler for Not found exception.
delimiter//
 create procedure abcc)
  begin
     declare a int;
     declare pranchar(12);
                                Snehal Sawant
     declare c inti
     declare d'int;
     declare y int default o;
     declare cicarisor et for select * from emp;
declare continue handler for not found set
```

```
open cl;
 cyrsor-c1-loop: loop
      fetch clinto a, b, (,d;
      if y = 1 then
         leave cursor-c1-loop;
      insert into tempp values (a, b);
  end loop cursor-c1-loop;
 close cl;
              end; 11
 delimiter;
· not found is a cursor attribute, it returns a boolean
 rue value if the last fetch was unsuccessful,
 and false value it the last fetchwas successful.
delimiter 1
(reate procedure abcc)
    declare a varichar (15);
    declare b inti
    declare y intdefault o;
   declare cl cursor for selectename, sal from emp; declare continue handler for not fount sety=1;
    Curson- C1 - 100p: 100p
       fetch clinto a,b;
       if you y=1 then
           leave cursor-c1-loop;
       1" processing, e.g. set has - b'o.4, etc >/
insert into tempp values (b,a);
    end loop curson-c1-loop;
    close c1;
end; //
                             Snehal Sawant
delimilter;
```

```
delimiter //
(reate procedure abcc)
                      declare a int;
  declare b varchar (15);
  declare cint;
  declare d'int;
  declare y int default o;
  declare cl carsor for select & from emp wher deptho=1;
  declare condition handler for not found set y=1;
        continue
  open cl;
  Cursor-cl-loop: 100p
    fetch clinto a,b,(,d)
     ify = 1 then
        leave cursor-CI-100Pi
      end if;
      insert into tempo values (c,d);
   end loop cursor = cl-loop,
   close cl;
                    end;11
delimiter;
To reset cursor:
  close cli,
  opencl;
 delimiter//
 (recute procedure ab(c)
 begin.
        declare a cursor for select & from dept;
        declare c2 cursor for select * from emp;
         open c1;
         openc2;
```

- · There is no upper the limit on no of cursor that you can dedone in one procedure.
- · there is no upper limit on the number of cursors that you can open at a time.
  - (the only restriction would be the size of server RAM; it should be large enough to manage so much data).
- · If the cursor are large, and the server RAM is insufficient, then Mysgl Will use virtual memory obut then it will be very slow).
- · declare al cursor for select dname, en ame from emp, dept where dept · dept no = emp. empno;

Snehal Sawant