**Records**

A record is a group of related data items stored in field, each with its own name and data type.

**Type of records**

1. Table based record
2. Cursor based record
3. User defined records

**Syntax**

Variable\_name table\_name%rowtype;

Variable\_name cursor\_name%rowtype;

Record datatype variables are composite data structures made up of different components called fields.

**Table based record**

Set serveroutput on;

**V\_emp emp%rowtype;**

Begin

Select \* into v\_emp from emp where empno=7839;

Dbms\_output.put\_line(‘emp name’||v\_emp.ename||’emp salary ‘||v\_emp.salary);

End ;

/

Example 2 :

Set serveroutput on;

**V\_emp emp%rowtype;**

Begin

Select ename into v\_emp from emp where empno=7839;

Dbms\_output.put\_line(‘emp name’||v\_emp.ename||’emp salary ‘||v\_emp.salary);

End ;

/

Error : too many rows

Bcoz record is a composite datatype with different column and datatypes.

Set serveroutput on;

**V\_emp emp%rowtype;**

Begin

Select ename into v\_emp.ename from emp where empno=7839;

Dbms\_output.put\_line(‘emp name’||v\_emp.ename);

End ;

/

2**. cursor based records**

Are those variables whose structure is derived from the SELECT list of an already created cursor.

In the case of cursor based records these fields are initialized by fetching the data from SELECT – LIST of the cursor that was used to create this variable.

Declare

Cursor emp\_cur is

ename,salary

From emp

Where empno=7839;

Var\_Emp emp\_cur%rowtype;

Begin

Open emp\_cur;

Fetch emp\_cur into var\_Emp;

Dbms\_ouput.put\_line(‘emp name ‘||var\_emp.ename);

Close emp\_cur;

End;

/

Declare

Cursor emp\_cur is

ename,salary

From emp

Where empno >7000;

Var\_Emp emp\_cur%rowtype;

Begin

Open emp\_cur;

loop

Fetch emp\_cur into var\_Emp;

Dbms\_ouput.put\_line(‘emp name ‘||var\_emp.ename);

End loop;

Close emp\_cur;

End;

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1. **User defined records**

Syntax

Type type\_name is record(field1 datatype1, field2 datatyp2,…);

Record\_name type\_name;

Example

Declare

Type rv\_dept is record

(ename emp.ename%type,

Salary emp.salary%type);

Var1 rv\_Dept;

Begin

Select ename,salary into var1.ename,var2.salary

From emp where empbo=7839;

Dbms\_output.put\_line(var1.ename ||’ ‘||var2.salary);

End;

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