BahwanCybertek Second Round Interview Q&A

Q. Write a query to increase a column size of table create table course cname varchar2(10)); alter table course modify cname varchar2(30); Q. Two tables tab1 and tab2. Tab 1 contain 100 record, tab 2 contain 150 record common 30 record. Tell me the output row count of the following: Inner join Left out join Right outer join Inner Join: It will provide only matched records of both the tables. select * from tab1 join tab2 on tab1.cid=tab2.cid; 30 records **Left Outer Join:** It will provide matched and unmatched records of first table. + sign is on the right. select * from tab1 join tab2 on tab1.cid=tab2.cid(+); 100 records **Right Outer Join:** It will provide matched and unmatched records of second table. + sign is on the left.

select *

150 records.

from tab1 join tab2 on tab1.cid(+)=tab2.cid;

Q. What is cursor and refcursor and why we use both and give example.

Cursor

Cursor is a sql private work area. It only process one row at a time.

```
Types:
```

```
Implicit Cursor:
```

DML statements written in plsqlblcok

Explicit Cursor:

Cursor declared in the declaration part.

Cursor Attributes:

```
%found
%notfound
%rowcount
%isopen
declare
I varchar(30);
cursor c1 is
select first_name from employees;
begin
open c1;
loop
fetch c1 into I;
dbms_output.put_line(i);
exit when c1%rowcount=4;
end loop;
if c1%isopen=true then
close c1;
end if;
end;
```

Refcursor:

Refcursor is a datatype used for string the query output.

```
create or replace procedure sp_emp(a out sys_refcursor)
as
begin
open a for select * from employees;
end;
//
```

```
Q.
Begin
Alter query
End;
Begin
Update query
End;
Both block will execute or not ? And reason for that.
```

DML statements can be runned in a plsql. So, the update statement will work.

```
Begin update employees set first_name='ELON' where employee_id=100; end; /
```

DDL (Data Definition Language) statements like CREATE, ALTER, RENAME, TRUCATE and DROPcannot be run in a plsql block. To use DDL in a plsql, we must use EXECUTE IMMEDIATE.

```
begin
execute immediate 'alter table employees modify first_namevarchar(50)';
end;
/
```

Q. Have you worked in performance tuning.

Yes, I've worked n performance tuning. I used these to do performance tuning.

Bind variables to switch from hard parsing to soft parsing

DBMS_PROFILER with START_PROFILER AND STOP_PROFILER functions. Then, PLSQL_PROFILER_RUNS, PLSQL_PROFILER_DATA and PLSQL_PROFILER_UNITS to get the problem in the exact line.

XML Flat file to load multiple records at once.

Check last Analyzed date and gather statistics using dbms gather gather table stats.

Q. Explain plan. What you will check in that?

Explain plan is used to check the problem in the select statement. By examining this plan, you can find out if Oracle is picking the right indexes and joining your tables in the most efficient manner.

Explain plan for select e.first_name,e.department_name from employeese, departments d where e.department_id=d.department_id;

select * from table(dbms_xplan.display);

Joins:

Nested loop Column1 High volume Column2 Low volume where Unique key

Hash
Column1 High volume
Column2 Hign volume
where no indexed column

Merge Column1 High volume Column2 Hign volume where non unique column

Index:

Unique scan where Unique index

Range scan where non unique index

Full scan where no index

```
Q. What is correlated subquery and inline view?
correlated sub query:
The inner query depends on the outer query
select * from employees where department id in
select department id from departments where
departments.department id=employees.department id
Inline view:
If the sub query is written in from clause.
select * from
select first_name,salary,dense_rank() over(order by salary desc)RK from employees)
where RK=1;
Q. Utl file. How it works?
UTL_FILE is a oracle supplied package. With it, plsql programs can read and write in
operating system text files.
sqlplus sys/admin as sysdba
create directory NEW as 'D:\NEW';
grant read, write on NEW to HR;
grant execute on utl_file to HR;
declare
Futl file.file type;
I varchar2(200);
begin
F:=utl file.fopen('NEW','EMPDETAILS.TXT','W',32767);
for x in (slectfirst name, salary from employees where rownum<=10) loop
i:=x.first_name||' '||x.salary;
utl file.put line(F,i);
utl file.new line(F);
end loop;
utl file.fclose(F);
end;
/
```