Databases II 2019-09-19

1. Give the owner and name of the tables which have column name beginning with letter 'Z'.

select owner, table_name from dba_tab_columns where column_name like 'Z%' group by owner, table_name;

2. Write a PL/SQL procedure, which prints out the owners and names of the tables beginning with the parameter character string.

```
create or replace procedure table_print(p_char VARCHAR2) is
    CURSOR cur IS select owner, table_name from dba_tables
        where table_name like p_char||'%';
    rec cur%ROWTYPE;
    begin
    open cur;
    loop
      fetch cur into rec;
      exit when cur%NOTFOUND;
      dbms_output.put_line(rec.owner||' - '||rec.table_name);
    end loop;
end;
/
set serveroutput on;
execute table_print('EM');
```

3. Give the following query (in ARAMIS database): SELECT * FROM sz1;
Is there a table named 'sz1' ? (Answer -> no)
Then which is the table (owner, table_name) whose records are displayed?
You should find a table, a view is not enough.

SELECT * FROM DBA_TABLES WHERE table_name = 'SZ1'; --No results

SELECT * FROM DBA_OBJECTS WHERE object_name = 'SZ1'; --What is the type? A synonym...

SELECT * FROM DBA_SYNONYMS WHERE synonym_name = 'SZ1'; --So it is a synonym for V1!

SELECT * FROM DBA_OBJECTS WHERE object_name = 'V1'; --Looks like V1 is a view. For which table(s)?

SELECT * FROM DBA_VIEWS WHERE view_name = 'V1'; --What is the TEXT for V1?

SELECT TEXT FROM DBA_VIEWS WHERE view_name = 'V1'; --So originally the data in view V1 is from the table EMP!

4. a) Create your own copy of EMP and DEPT tables (if you don't have already). CREATE TABLE emp AS SELECT * FROM nikovits.emp; CREATE TABLE dept AS SELECT * FROM nikovits.dept;

4. b) Create a sequence to generate numbers for department number columns of the tables.

(start with 50, increment by 10) INSERT a new department. The department numbers should be generated by the sequence.

create sequence seq1 start with 50 increment by 10 nocycle;

insert into dept values (seq1.nextval, 'FUN', 'Budapest');

-To view current value of seq1:

select seq1.currval from dual;

5. Give the names and sizes of database files.

select file_name, bytes from dba_data_files;

6. Give the names of tablespaces.

select tablespace_name from dba_tablespaces;

7. Which datafile belongs to which tablespace?

select file_name, tablespace_name from dba_data_files;

8. Is there a tablespace that doesn't have datafiles?

(select tablespace_name from dba_tablespaces) minus (select tablespace_name from dba_data_files);

9. What is the block size in USERS tablespace?

select block_size from dba_tablespaces where tablespace_name = 'USERS';

10. Find segments whose owner is NIKOVITS. What segment types do they have? List the types.

select unique segment_type from dba_segments
where owner = 'NIKOVITS';