

COSC 344
Lab for Week 12

Overview

The purpose of this lab is to become familiar with the Oracle system catalogs and database indexes.

System Catalogs

Execute the following SQL statements to look at some of the data available from system catalogs.

1.

```
SELECT * FROM all_catalog
WHERE owner = 'username';
```

Substitute your Oracle username in the above. Remember to use all uppercase letters for your username.

2.

```
SELECT table_name, column_name
FROM user_tab_columns
WHERE table_name = 'EMPLOYEE';
```
3.

```
ANALYZE TABLE employee COMPUTE STATISTICS;
```
4.

```
ANALYZE TABLE orders COMPUTE STATISTICS;
```

These two commands cause Oracle to compute some statistics about the employee and orders table. The next command allows you to see some of the statistical data Oracle stores.

5.

```
SELECT table_name, num_rows, blocks, empty_blocks
FROM user_tables;
```

Use `DESCRIBE user_tables` to see some of the attributes in this table. You can do some `SELECTs` to see other data.

6.

```
SELECT view_name, text
FROM user_views;
```
7.

```
SELECT trigger_name, trigger_type, triggering_event, trigger_body
FROM user_triggers;
```
8.

```
SELECT * FROM user_source;
```

Indexes

The tables for salespeople, customers, orders has the following attributes:

SALESPEOPLE (snum, sname, city, comm)

CUSTOMERS (cnum, cname, city, rating, snum)

ORDERS (onum, amt, odate, cnum, snum)

Decide what attributes should be indexed for the queries we did in the lab. You can refer back to the SQL labs and their answers on the web to see the queries. List the attributes that should be indexed below.

Now create the indexes.

There is no assessment for this lab.