

Assignment –23
Keeping your Database in order.

- 1) Query the catalog to produce, for each table with more than 4 columns, the table's name, the owner, and the names and datatypes of the columns.

```
select table_name, table_owner, column_name,data_type from
(select * from user_tab_columns
join user_indexes using (table_name))
having count(column_name)>4
group by table_name, table_owner, column_name,data_type
```

- 2) Query the catalog to find out how many synonyms exist for each table in the database. Remember that the same synonym owned by 2 different users are in effect 2 different synonyms.

```
select count(synonym_name), table_name
from user_synonyms
group by table_name
```

- 3) Find out how many tables have indexes on more than 50% of their columns.

```
select table_name from
(select count(index_name) x, table_name from user_indexes
group by table_name) a
JOIN
(select count(*)/2 y,table_name from user_tab_columns
group by table_name) b
Using(table_name)
where a.x > b.y
```