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## When to Create an Index

- You should create an index if:
- A column contains a wide range of values
- A column contains a large number of null values
- · One or more columns are frequently used together in a WHERE clause or a join condition
- The table is large and most queries are expected to retrieve less than 2 to 4 percent of the rows

## When Not to Create an Index

It is usually not worth creating an index if:

- · The table is small
- · The columns are not often used as a condition in the query
- Most queries are expected to retrieve more than 2 to 4 percent of the rows in the table The table is updated frequently
- The indexed columns are referenced as part of an Expression

- The USER\_INDEXES data dictionary view contains the name of the index and its uniqueness.
- The USER\_IND\_COLUMNS view contains the index name, the table name, and the column

### EXAMPLE:

AND ic.table\_name = 'EMPLOYEES'; WHERE ic.index\_name = ix.index\_name SELECT ic.index\_name, ic.column\_name, ic.column\_position col\_pos,ix.uniqueness FROM user indexes ix, user ind columns ic

### Removing an Index

- Remove an index from the data dictionary by using the DROP INDEX command.
- Remove the UPPER\_LAST\_NAME\_IDX index from the data dictionary
- · To drop an index, you must be the owner of the index or have the DROP ANY INDEX

DROP INDEX upper\_last\_name\_idx;

### DROP INDEX index;

# Find the Solution for the following:

- by ten numbers. Name the sequence DEPT\_ID\_SEQ. sequence should start at 200 and have a maximum value of 1000. Have your sequence increment 1. Create a sequence to be used with the primary key column of the DEPT table. The
- 2. Write a query in a script to display the following information about your sequences: sequence name, maximum value, increment size, and last number

3. Write a script to insert two rows into the DEPT table. Name your script lab12\_3.sql. Be sure to use the sequence that you created for the ID column. Add two departments named Education and

Administration. Confirm your additions. Run the commands in your script.

- 4. Create a nonunique index on the foreign key column (DEPT\_ID) in the EMP table.
- 5. Display the indexes and uniqueness that exist in the data dictionary for the EMP table.

Evaluation Procedure	Marks awarded
PL/SQL Procedure(5)	5
Program/Execution (5)	5
Viva(5)	5
Total (15)	15
Faculty Signature	D