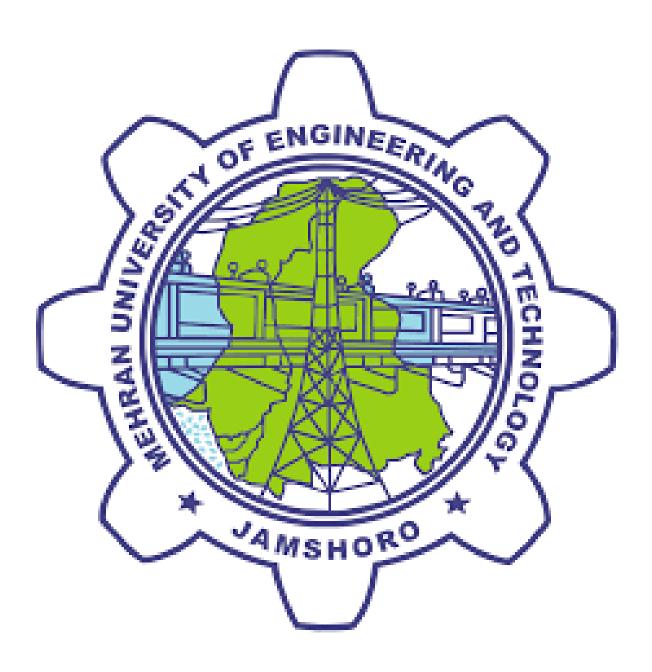
Name: ZOHAIB HASSAN SOOMRO

RollNo#: 19SW42

Subject: DBS



# **ASSIGNMENT**

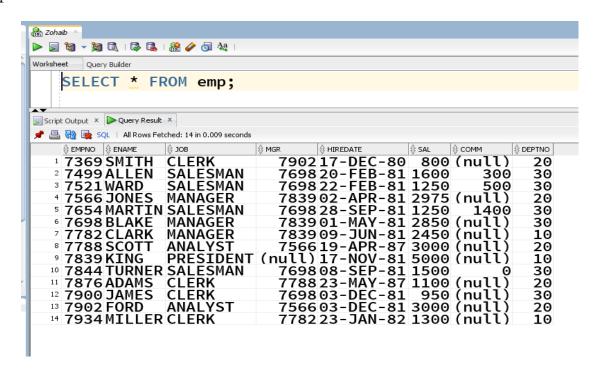
ASK: Find out how can one recover a column and its data once its logically leleted. Elaborate the procedure both theoretically as well as practically using queries).

#### RULES:

- Make a new table and name it as SW19\_yourrollnumber e.g., SW19\_01.
- Create the above table using the description of emp table i.e. make a copy of emp table but name it as described in Rule no 1.
- 3. Provide screenshots of executed queries with the outputs.
- I. Document the queries in the exact sequence in which you executed them to perform the task.

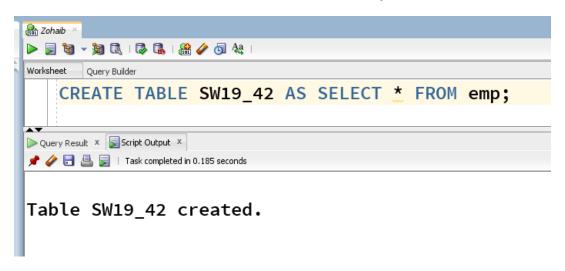
**DUE DATE: 5<sup>TH</sup> MARCH 2021** SUBMISSION THROUGH MS FORMS

# Emp Table:

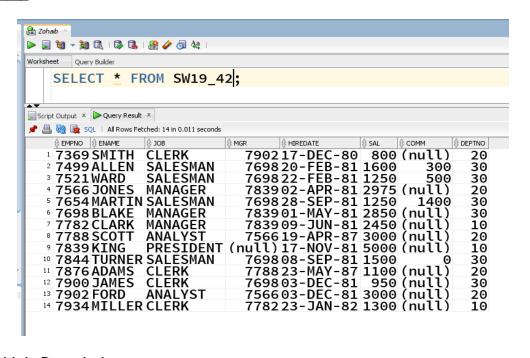


## Step-1: Making new Table as SW19\_42 as a copy of 'EMP' table:

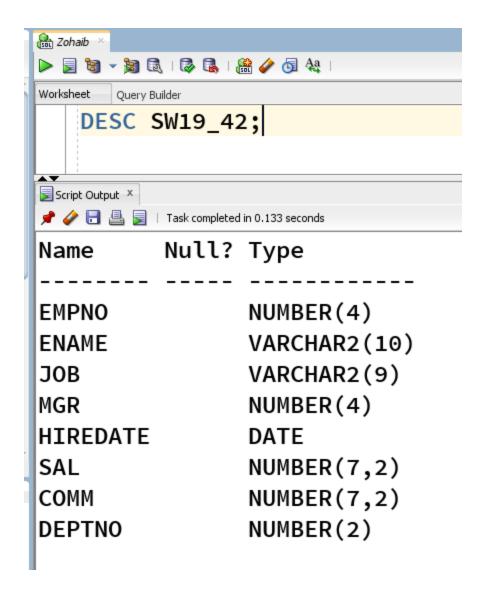
⇒ We will create our new table named 'SW19\_42' using 'CREATE' COMMAND.



### SW19\_42 <u>Table:</u>

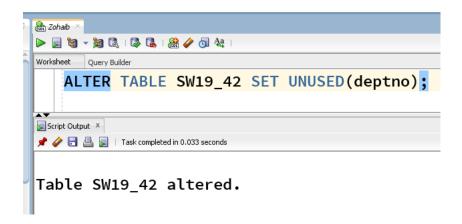


SW19\_42 Table's Description:

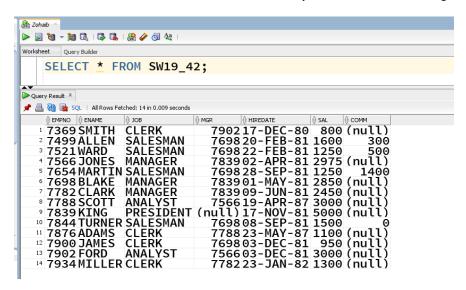


Step-2: Logically Deleting any of the columns in our table:

- ⇒ As we have created our table named 'SW19\_42', so to recover a logically deleted column & its data first we have to soft/logically delete that column from our table.
- $\Rightarrow$  So in our task we are going to logically delete the column 'deptno'.
- ⇒ To delete 'deptno' column logically we have to use 'SET UNUSED' keyword with 'deptno' preceded by 'ALTER TABLE SW19\_42'.



⇒ Table 'SW19\_42' will have no column like 'deptno' when selecting all from it:

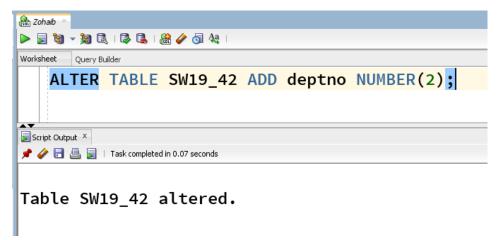


Step-3: Adding new column with same name in our table:

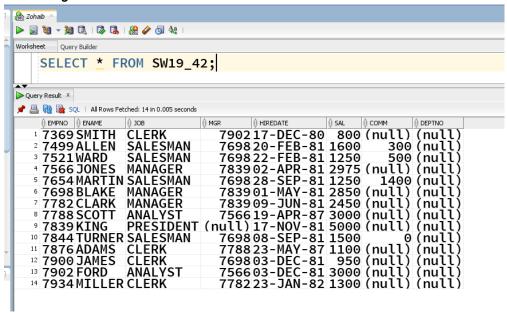
- ⇒ We can't recover the unused column, as it is treated as it was dropped.
- ⇒ So now using ALTER command we will add a new column to our table 'SW19\_42' having same name as of logically deleted column (i.e. deptno) with the same description as it was before.



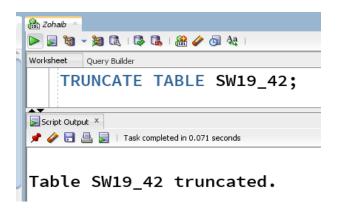
⇒ Now we can add it to our table:



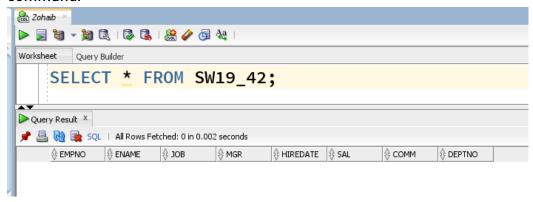
⇒ Table 'SW19\_42' will have now column like 'deptno' having null values when selecting all from it:



Step-4: Now we'll truncate our table using TRUNCATE TABLE command:



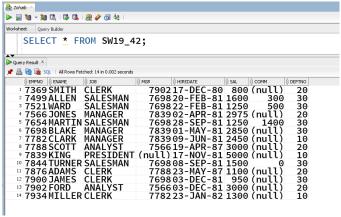
⇒ Our table will have now no any record in it, for checking we'll issue SELECT command:



Step-5: Now we'll insert all data of EMP table into our table 'SW19\_42' using INSERT command:



Now the same data has been inserted into our table, that was in our 'SW19\_42' while creating it as a copy of EMP table.



⇒ Hence our column and its data is back, without any recreation of our 'SW19\_42' table.