Exercises:

1. Create a new table test_sqlldr of the below mentioned structure and Using SQL Loader, load data into it. (It should be a truncate and reload).
   Test_SQLLDR(column1 number **primary key**, column2 varchar2(100) **not null**, column3 date).
   (Note: Include failure data in the input file, eg. Null value in column1,2)
2. Create a new table test_loader with same structure as test_sqlldr and load data using sql loader (direct load). Include failure records for this load as well and check both the tables. Check log, bad files as well.
   (Note: For both the loads try changing the data file and reload the data)
3. Create a new table test_ext with same structure as test_sqlldr and load data using external table. And same as above cases try changing the data file to reload the data.
4. Recreate the external table test_ext to include a filter on the column3, Only load data which has the date format "dd/mm/rrrr".
5. Take dump of the table test_sqllldr and load the data into a new table new_sqlldr using external table.
6. Create a new table test_mutipleldr with same structure as test_sqlldr and load three different files into the table and create a new external table test_multipleext by loading the same three files(Use parallelism).
7. Create an IOT with the below structure as a copy of test_mulipleext table
   Test_IOT(Column1 number primary key, column2 varchar2(100), column3 varchar2(100)).
   And create an secondary index on column3.(Investigate by selecting data in test_multipleldr and Test_IOT)
8. Create an IOT with the below structure.
   Test_IOT_OF(column1 number **primary key**, column2 varchar2(4000) **not null**, column3 varchar2 (4000)).
9. Create an PL/SQL stored procedure which takes <table name> as input parameter and inside the procedure block it creates a GTT with data from the input table name and prints all the data with comma separated output.
10. Create a table Test_lob with below structure and load data into the table
    Test_lob(Lob_id number, lob_data clob)
    And create a procedure which takes lob_id as input parameter and inside the procedure block read the lob file and send the content as an email.
11. Create a job which will call the above lob test procedure(Pass a static lob_id) and schedule the job to run every Sunday 12:00 PM.
12. You are given a database 'A' for a college. The objects in database A are
    i. Table Students(PK student_id)
    ii. Table Marks(FK student_id)
    iii. Table Student_details(FK student_id)
    iv. Table Symp_details(FK student_id)

    You are asked to give a report everyday which contain the students entire details which in turn is used to generate his resume. Space is not a constraint for creating tables or structures. Suggest a method so that the script that generates resume takes minimal time.

13. Consider an E-Commerce application which sells garments. You are being asked to design the tables to store the historical data. Following are the reports needs to be generated.
    i. Monthly reports of the sale for each particular division.
    ii. Sale report for any privileged customer

    Which of the following structure will you go for? And y..?
    a) Cluster
    b) Partition
    c) IOT
    Give the create table structure.