AHMED M. S. ALBREEM

Std.id : 210041258

COURSE.NO : CSE4308

DATE OF SOLUTION : 17-08-2023

ASSIGNMENT 1 OF DBMS LAB

FIRST TASK : CREATING USERNAME AND PASSWORD :

Username : 210041258 && Password : cse4308

The solution is connected to the database successfully with the top information .

مادة	تفاصيلها	التاريخ	الايام	الخطة
جبر خطي	3			
دوائر الاجهزة الكهربائية				
لغة سي يلس بلس				
هياكل بيانات				
ادارة قواعد بيانات				
تنظيم و عمارة الكمبيوتر	3	9/10->24/11	47	دراسة بشكل نتظم
معامل	(2-1,3-3,4-3,5-2)	24/11->28/11	5	دراسة فاينال
		28/11->14/12	17	دراسة فاينال

اليوم/الفترة	bef.mor(3-4) am	mor(5-6) am	eve (4-5) pm	aft.eve(6-7) pm
	هياكل ب	معمل هياكل بيانات	معمل دوائر الاجهزة الكهربائية	دوائر الاجهزة الكهربائية
	ادارة الب	جبر الخطي	معمل ادارة بيانات	لغة سي يلس بلس
	دوائر الاجهزة	معمل سي بلس بلس	تنظيم و عمارة كمبيوتر	هياكل بيانات
	تنظيم و عما	معمل هياكل بيانات	جبر الخطي	ادارة البيانات
الاربعاء	دوائر الاجهزة الكهربائية	معمل ادارة بيانات	لغة سي يلس بلس	تنظيم و عمارة كمبيوتر
الخميس	جبر الخطي	معمل سي بلس بلس	ادارة البيانات	معمل ادارة بيانات
الجمعة	لغة سي يلس بلس	معمل سي بلس بلس	معمل هياكل بيانات	هياكل بيانات

```
Command Prompt - sqlplus

Microsoft Windows [Version 10.0.22621.2134]
(c) Microsoft Corporation. All rights reserved.

C:\Users\SMART_CLOUD>sqlplus

SQL*Plus: Release 11.2.0.2.0 Production on Thu Aug 17 21:26:28 2023

Copyright (c) 1982, 2014, Oracle.  All rights reserved.

Enter user-name: 210041258
Enter password:

Connected to:
Oracle Database 11g Express Edition Release 11.2.0.2.0 - 64bit Production

SQL>
```

Second Task : Write SQL statement to create a table 'STUDENT'

Code : **CREATE TABLE STUDENT (**
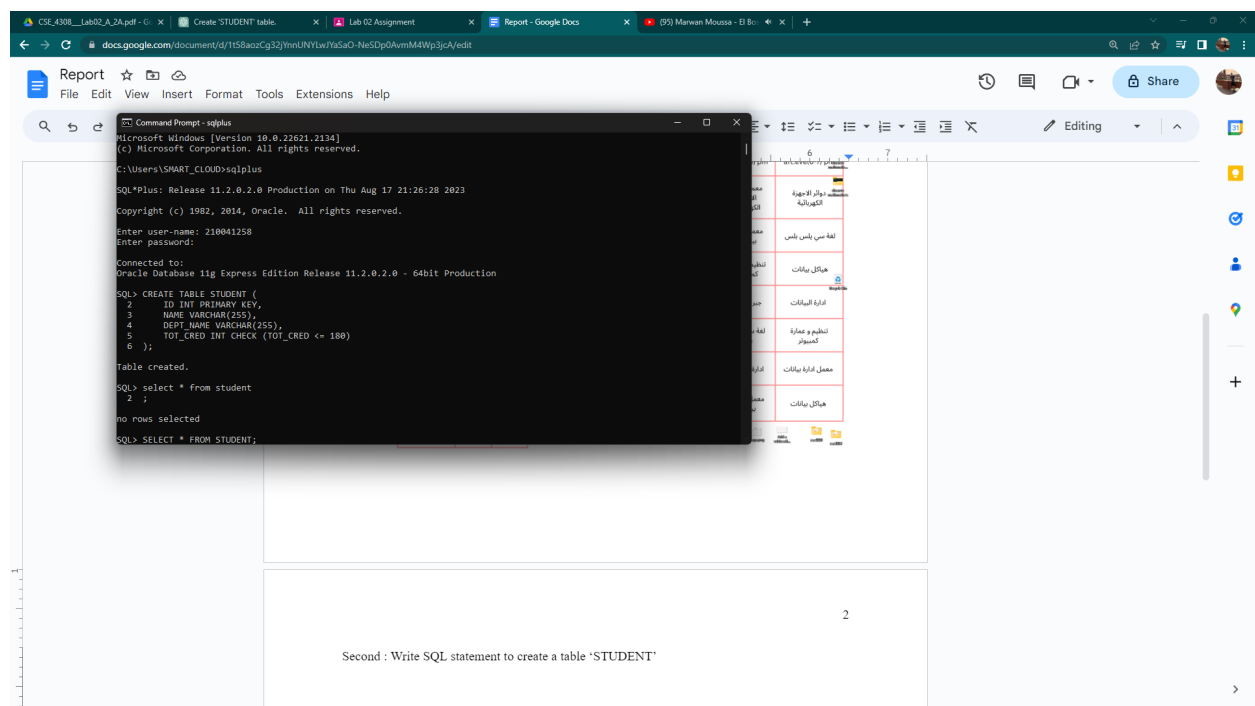
    ID INT PRIMARY KEY,

    NAME VARCHAR(255),

    DEPT_NAME VARCHAR(255),

    TOT_CRED INT CHECK (TOT_CRED <= 180)

);

Explaining the Task : " we used the CREATE TABLE student means we want to create table in database as name "STUDENT" with ID as member in database in table as integer as primary key thats why chose "PRIMARY KEY ", Also "NAME VARCHAR(255)" means i want to create name as string with limit 255 character , "DEPT_NAME VARCHAR(255)" means i want to create Department name as string with maximum length 255 characters , also "TOT_CRED INT CHECK (TOT_CRED <= 180" means i want to create total credit as integer but less than 180 .

Third Task : " INSERTING VALUES INSIDE TABLE OF DATABASE "

Code : "

INSERT INTO STUDENT VALUES (00128,'Zhang','Comp. Sci.',102);

INSERT INTO STUDENT VALUES (12345,'Shankar','Comp. Sci.',32);

INSERT INTO STUDENT VALUES (19991,'Brandt','History',80);

INSERT INTO STUDENT VALUES (23121,'Chavez','Finance',110);

INSERT INTO STUDENT VALUES (44553,'Peltier','Physics',56);

INSERT INTO STUDENT VALUES (45678,'Levy','Physics',46);

INSERT INTO STUDENT VALUES (54321,'Williams','Comp. Sci.',5);

INSERT INTO STUDENT VALUES (55739,'Sanchez','Music',38);

INSERT INTO STUDENT VALUES (70557,' Snow','Physics',0);

INSERT INTO STUDENT VALUES (76543,'Brown','Comp. Sci.',58);

INSERT INTO STUDENT VALUES (76653,'Aoi','Elec. Eng.',60);

INSERT INTO STUDENT VALUES (98765,'Bourikas','Elec. Eng.',9);

INSERT INTO STUDENT VALUES (98988,'Tanaka','Biology',120);

"

"INSERT INTO STUDENT VALUES (00128,'Zhang','Comp. Sci.',102);"

i used "INSERT INTO" to put the data with spasifc format as same i created in the beginning and

student the name of table of database i want to insert values inside it, VALUES means the

inserted values inside the table of the table , also we used ' ' for character and string same for

entry of the data , i insert all of them like that with semicolon ';'

And the return of cmd : "1 row created " means it created the row in that table .

Task Four : " Some Different of Operation in Table of database "

```
"" SELECT * FROM STUDENT;" == "displaying all the entry data in table ""
Means displaying all the columns and rows  in the table as 12 rows
```

```
Command Prompt - sqlplus                                                              —  □  ×
Aoi
Elec. Eng.
        60


        ID
----------
NAME
------------------------------------------------------------------------------
DEPT_NAME
------------------------------------------------------------------------------
  TOT_CRED
----------
     98765
Bourikas
Elec. Eng.
         9


        ID
----------
NAME
------------------------------------------------------------------------------
DEPT_NAME
------------------------------------------------------------------------------
  TOT_CRED
----------
     98988
Tanaka
Biology
       120


12 rows selected.

SQL> _
```

"`SELECT ID, NAME FROM STUDENT;`" means he displays of name and id from student table but just two

columns id, name

```
Select Command Prompt - sqlplus                                                       —  □  ×
        ID
----------
NAME
------------------------------------------------------------------
     55739
Sanchez

     70557
 Snow

     76543
Brown


        ID
----------
NAME
------------------------------------------------------------------
     76653
Aoi

     98765
Bourikas

     98988
Tanaka

12 rows selected.

SQL> _
```

" SELECT NAME, DEPT_NAME FROM STUDENT WHERE TOT_CRED > 100; " == "displaying the name and department name from student when the total credit of student who has more than 100 " "there is just two student who have more than 100 as credit "

```
SQL> SELECT NAME, DEPT_NAME FROM STUDENT WHERE TOT_CRED > 100;

NAME
--------------------------------------------------------------------------------
DEPT_NAME
--------------------------------------------------------------------------------
Chavez
Finance

Tanaka
Biology


SQL>
```

"SELECT NAME, DEPT_NAME FROM STUDENT WHERE TOT_CRED BETWEEN 80 AND 120;" ==

"displaying the name and columns who have credit from 80 and 120 "

"SELECT ID, NAME FROM STUDENT WHERE DEPT_NAME = 'Comp. Sci.';" == "displaying the id

and name columns from student table if there are in department name " computer science "
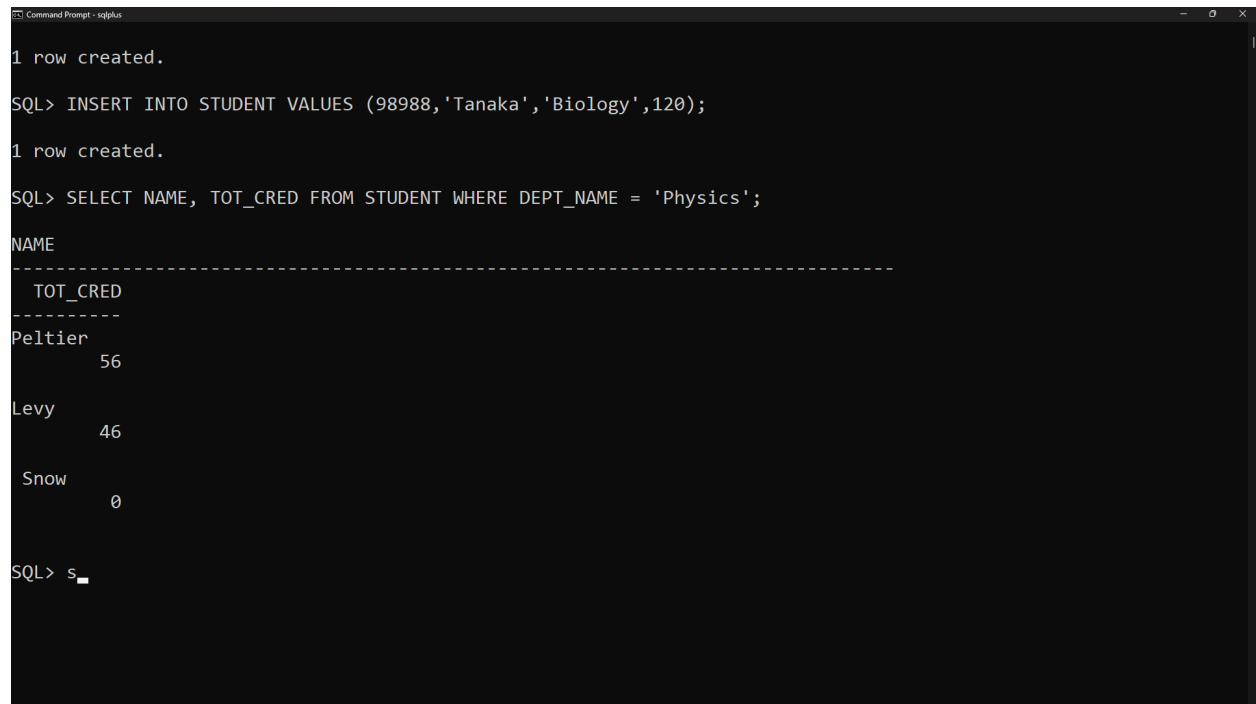
"SELECT NAME, TOT_CRED FROM STUDENT WHERE DEPT_NAME = 'Physics';" ==

"displaying the name and total credit from student if there department name is "physics" "

```
Command Prompt - sqlplus

1 row created.

SQL> INSERT INTO STUDENT VALUES (98988,'Tanaka','Biology',120);

1 row created.

SQL> SELECT NAME, TOT_CRED FROM STUDENT WHERE DEPT_NAME = 'Physics';

NAME
--------------------------------------------------------------------------
   TOT_CRED
----------
Peltier
        56

Levy
        46

  Snow
         0

SQL> s
```

"SELECT ID, NAME FROM STUDENT WHERE DEPT_NAME = 'Comp. Sci.' OR

TOT_CRED < 10;" == "that will show the name and id from student table if there department

name is computer science or total credit less than 10 credit "

```
SQL> SELECT ID, NAME FROM STUDENT WHERE DEPT_NAME = 'Comp. Sci.' OR TOT_CRED < 10;

        ID
----------
NAME
-----------------------------------------------------------------------
     12345
Shankar

     54321
Williams

     70557
 Snow


        ID
----------
NAME
-----------------------------------------------------------------------
    █76543
Brown

     98765
Bourikas


SQL>
```

"SELECT DISTINCT DEPT_NAME FROM STUDENT;" == " displaying the unique values of the

department from the table of student " , the returned cmd answer as "no. of the rows it find value

inside it in that table according to the order of the user " ,Also "DISTINCT" means just unique

values will be shown its just a attribute the values will be existed will have it a unique values

```
SQL> SELECT DISTINCT DEPT_NAME FROM STUDENT;

DEPT_NAME
-----------------------------------------------------------------
Elec. Eng.
Physics
Comp. Sci.
Finance
Biology
History
Music

7 rows selected.

SQL> _
```

TASK 5 :

"DROP TABLE STUDENT;" == "DROP MEANS DELETING THE TABLE NOT JUST THE CONTENT OF THE TABLE ALL OF THE TABLE STRUCTURE WILL BE DELETED AND THE INFORMATION INSIDE THE TABLE WILL BE DELETED ALSO "

```
SQL> DROP TABLE STUDENT;
Table dropped.
SQL>
```

THE PROBLEM I FACED IN THE ALL OF THE ASSIGNMENT IS JUST IN THE CLASS I DIDN'T HEAR VERY WELL BECAUSE I WAS AWAY FROM THE BOARD THAT'S WHY I DIDN'T SOLVE THE TASK IN THE LAB AT THAT MOMENT , BUT I USE THE ONLINE SOURCES TO MAKE IT MORE CLEAR THANK YOU .