



CSE302 (Section 2)
[Spring 2022]

Lab Assignment Submission Report

Assignment Title: LAB 01

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1. Screenshots

Problem 1(a):

```
SQL> CREATE TABLE instructor_2019360041(  
  2  id NUMBER,  
  3  name VARCHAR2(15),  
  4  dept_name VARCHAR2(15),  
  5  salary NUMBER  
  6  );
```

Table created.

Problem 1(b):

```
SQL> CREATE TABLE course_2019360041(  
  2  course_id VARCHAR2(15),  
  3  title VARCHAR2(30),  
  4  dept_name VARCHAR2(15),  
  5  credits NUMBER  
  6  ) ;
```

Table created.

Problem 2(a):

```

SQL> INSERT INTO instructor_2019360041 VALUES (10101, 'Srinivasan', 'Comp. Sci.', 65000);
1 row created.

SQL> INSERT INTO instructor_2019360041 VALUES (12121, 'Wu', 'Finance' , 90000);
1 row created.

SQL> INSERT INTO instructor_2019360041 VALUES (15151, 'Mozart', 'Music' , 40000);
1 row created.

SQL> INSERT INTO instructor_2019360041 VALUES (22222, 'Einstein', 'Physics' , 95000);
1 row created.

SQL> INSERT INTO instructor_2019360041 VALUES (32343, 'El Said', 'History' , 60000);
1 row created.

SQL> INSERT INTO instructor_2019360041 VALUES (33456, 'Gold', 'Physics' , 87000);
1 row created.

SQL> INSERT INTO instructor_2019360041 VALUES (45565, 'Katz', 'Comp. Sci' , 75000);
1 row created.

SQL> INSERT INTO instructor_2019360041 VALUES (58583, 'Califieri', 'History' , 62000);
1 row created.

SQL> INSERT INTO instructor_2019360041 VALUES (76543, 'Singh', 'Finance' , 80000);
1 row created.

SQL> INSERT INTO instructor_2019360041 VALUES (76766, 'Crick', 'Biology' , 72000);
1 row created.

SQL> INSERT INTO instructor_2019360041 VALUES (83821, 'Brandt', 'Comp. Sci.' , 92000);
1 row created.

SQL> INSERT INTO instructor_2019360041 VALUES (98345, 'Kim', 'Elec. Eng.' , 80000);
1 row created.

```

Problem 2(b):

```

SQL> INSERT INTO course_2019360041 VALUES ('BIO-101', 'Intro. to Biology', 'Biology' , 4);
1 row created.

SQL> INSERT INTO course_2019360041 VALUES ('BIO-301', 'Genetics' , 'Biology', 4);
1 row created.

SQL> INSERT INTO course_2019360041 VALUES ('BIO-399', 'Computational Biology' , 'Biology', 3);
1 row created.

SQL> INSERT INTO course_2019360041 VALUES ('CS-101', 'Intro. to Comp. Science' , 'Comp. Sci.', 4);
1 row created.

SQL> INSERT INTO course_2019360041 VALUES ('CS-190', 'Game Design' , 'Comp. Sci.', 4);
1 row created.

SQL> INSERT INTO course_2019360041 VALUES ('CS-315', 'Robotics' , 'Comp. Sci.', 3);
1 row created.

SQL> INSERT INTO course_2019360041 VALUES ('CS-319', 'Image Processing' , 'Comp. Sci.', 3);
1 row created.

SQL> INSERT INTO course_2019360041 VALUES ('CS-347', 'Database System Concepts' , 'Comp. Sci.', 3);
1 row created.

SQL> INSERT INTO course_2019360041 VALUES ('EE-181', 'Intro. to Digital Systems' , 'Elec. Eng.', 3);
1 row created.

```

```
SQL> INSERT INTO course_2019360041 VALUES ('FIN-201', 'Investment Banking' , 'Finance', 3);
1 row created.

SQL> INSERT INTO course_2019360041 VALUES ('HIS-351', 'World History' , 'History', 3);
1 row created.

SQL> INSERT INTO course_2019360041 VALUES ('MU-199', 'Music Video Production' , 'Music', 3);
1 row created.

SQL> INSERT INTO course_2019360041 VALUES ('PHY-101', 'Physical Principles' , 'Physics', 4);
1 row created.
```

Problem 3(i):

```
SQL> SELECT name FROM INSTRUCTOR_2019360041;

NAME
-----
Srinivasan
Wu
Mozart
Einstein
El Said
Gold
Katz
Califieri
Singh
Crick
Brandt

NAME
-----
Kim
```

Problem 3(ii):

```
SQL> SELECT course_id,title FROM course_2019360041;

COURSE_ID      TITLE
-----
BIO-101        Intro. to Biology
BIO-301        Genetics
BIO-399        Computational Biology
CS-101         Intro. to Comp. Science
CS-190         Game Design
CS-315         Robotics
CS-319         Image Processing
CS-347         Database System Concepts
EE-181         Intro. to Digital Systems
FIN-201        Investment Banking
HIS-351        World History

COURSE_ID      TITLE
-----
MU-199         Music Video Production
PHY-101        Physical Principles
```

Problem 3(iii):

```
SQL> SELECT name, dept_name
  2   from instructor_2019360041
  3   where id=22222;
```

NAME	DEPT_NAME
Einstein	Physics

Problem 3(iv):

```
SQL> SELECT title, credits
  2   from course_2019360041
  3   where dept_name='Comp. Sci.';
```

TITLE	CREDITS
Intro. to Comp. Science	4
Game Design	4
Robotics	3
Image Processing	3
Database System Concepts	3

Problem 3(v):

```
SQL> SELECT name, dept_name
  2   from instructor_2019360041
  3   where salary>70000;
```

NAME	DEPT_NAME
Wu	Finance
Einstein	Physics
Gold	Physics
Katz	Comp. Sci
Singh	Finance
Crick	Biology
Brandt	Comp. Sci.
Kim	Elec. Eng.

8 rows selected.

Problem 3(vi):

```
SQL> SELECT title
  2   from course_2019360041
  3   where credits>=4;
```

```
TITLE
-----
Intro. to Biology
Genetics
Intro. to Comp. Science
Game Design
Physical Principles
```

Problem 3(vii):

```
SQL> SELECT name, dept_name
  2   from instructor_2019360041
  3   where salary>=80000 and salary<=100000;
```

```
NAME          DEPT_NAME
-----
Wu             Finance
Einstein       Physics
Gold           Physics
Singh          Finance
Brandt         Comp. Sci.
Kim            Elec. Eng.
```

6 rows selected.

Problem 3(viii):

```
SQL> SELECT title, credits
  2   from course_2019360041
  3   where dept_name!='Comp. Sci.';
```

```
TITLE                                CREDITS
-----
Intro. to Biology                     4
Genetics                             4
Computational Biology                 3
Intro. to Digital Systems              3
Investment Banking                    3
World History                         3
Music Video Production                 3
Physical Principles                    4
```

8 rows selected.

Problem 3(ix):

```
SQL> SELECT *
  2  from instructor_2019360041;
```

ID	NAME	DEPT_NAME	SALARY
10101	Srinivasan	Comp. Sci.	65000
12121	Wu	Finance	90000
15151	Mozart	Music	40000
22222	Einstein	Physics	95000
32343	El Said	History	60000
33456	Gold	Physics	87000
45565	Katz	Comp. Sci	75000
58583	Califieri	History	62000
76543	Singh	Finance	80000
76766	Crick	Biology	72000
83821	Brandt	Comp. Sci.	92000
98345	Kim	Elec. Eng.	80000

```
12 rows selected.
```

Problem 3(x):

```
SQL> SELECT *
  2  from course_2019360041
  3  where dept_name='Biology' and credits!=4;
```

COURSE_ID	TITLE	DEPT_NAME	CREDITS
BIO-399	Computational Biology	Biology	3

2. Learning Outcomes

By doing this lab, I have learned how to write SQL commands. I have learned how to use SQLPlus tool and the command of creating a common database user and the command of giving permissions to that user. I have learned that how to get connected to Database at Local Machine and command of seeing the tables that are created by any users. From this lab I have learned how to create tables, inserting records into the tables and the syntax of basic queries on the table.