## Lab Task # 01 (Creating a table):

## 1.(a).

```
CREATE TABLE instructor_2022360045 (
ID NUMBER, Name VARCHAR2(30) , Dept_Name VARCHAR2(30) , Salary NUMBER
);

Script Output X Query Result X

Table INSTRUCTOR_2022360045 (
Course_ID VARCHAR2(30), Title VARCHAR2(30) , Dept_Name VARCHAR2(30) , Credits NUMBER
);

Script Output X Query Result X

Script Output X Query Result X

Script Output X Query Result X

Table COURSE_2022360045 created.
```

# Lab Task # 02 (Inserting data into a table):

### 2.(a).

```
INSERT INTO instructor_2022360045 (id, name, dept_name, salary) VALUES (10101, 'Srinivasan', 'Comp. Sci.', 65000);
   INSERT INTO instructor_2022360045 VALUES (12121, 'Wu', 'Finance', 90000);
   INSERT INTO instructor_2022360045 VALUES (15151, 'Mozart', 'Music', 40000);
   INSERT INTO instructor 2022360045 VALUES (22222, 'Einstein', 'Physics', 95000);
   INSERT INTO instructor_2022360045 VALUES (32343, 'El Said', 'History', 60000);
   INSERT INTO instructor_2022360045 VALUES (33456, 'Gold', 'Physics', 87000);
   INSERT INTO instructor_2022360045 VALUES (45565, 'Katz', 'Comp. Sci.', 75000);
   INSERT INTO instructor 2022360045 VALUES (58583, 'Califieri', 'History', 62000);
   INSERT INTO instructor_2022360045 VALUES (76543, 'Singh', 'Finance', 80000);
   INSERT INTO instructor_2022360045 VALUES (76766, 'Crick', 'Biology', 72000);
   INSERT INTO instructor_2022360045 VALUES (83821, 'Brandt', 'Comp. Sci.', 92000);
   INSERT INTO instructor 2022360045 VALUES (98345, 'Kim', 'Elec. Eng.', 80000);
📌 🧽 🔡 📓 🔋 | Task completed in 0.08 seconds
1 row inserted.
1 row inserted.
1 row inserted.
```

#### **OUTPUT:**

	<b>∜ I</b> D	<b>∜ NAME</b>		
1.	10101	Srinivasan	Comp. Sci.	65000
2	12121	₩u	Finance	90000
3	15151	Mozart	Music	40000
4	22222	Einstein	Physics	95000
5	32343	El Said	History	60000
6	33456	Gold	Physics	87000
7	45565	Katz	Comp. Sci.	75000
8	58583	Califieri	History	62000
9	76543	Singh	Finance	80000
10	76766	Crick	Biology	72000
11	83821	Brandt	Comp. Sci.	92000
12	98345	Kim	Elec. Eng.	80000

## 2.(b).

```
INSERT INTO course_2022360045 VALUES ('BIO-101', 'Intro. to Biology', 'Biology', 4);
INSERT INTO course_2022360045 VALUES ('BIO-301', 'Genetics', 'Biology', 4);
INSERT INTO course_2022360045 VALUES ('BIO-399', 'Computational Biology', 'Biology', 3);
INSERT INTO course_2022360045 VALUES ('BIO-399', 'Computational Biology', 'Biology', 3);
INSERT INTO course_2022360045 VALUES ('CS-101', 'Intro. to Computer Science', 'Comp. Sci.', 4);
INSERT INTO course_2022360045 VALUES ('CS-190', 'Game Design', 'Comp. Sci.', 4);
INSERT INTO course_2022360045 VALUES ('CS-315', 'Robotics', 'Comp. Sci.', 3);
INSERT INTO course_2022360045 VALUES ('CS-347', 'Database Systems', 'Comp. Sci.', 3);
INSERT INTO course_2022360045 VALUES ('EE-181', 'Intro. to Digital Systems', 'Elec. Eng.', 3);
INSERT INTO course_2022360045 VALUES ('FIN-201', 'Investment Banking', 'Finance', 3);
INSERT INTO course_2022360045 VALUES ('HIS-351', 'World History', 'History', 3);
INSERT INTO course_2022360045 VALUES ('HIS-351', 'World History', 'History', 3);
INSERT INTO course_2022360045 VALUES ('HIS-351', 'World History', 'History', 3);
INSERT INTO course_2022360045 VALUES ('HIS-351', 'World History', 'History', 3);
INSERT INTO course_2022360045 VALUES ('HIS-351', 'World History', 'History', 3);
INSERT INTO course_2022360045 VALUES ('HIS-351', 'World History', 'History', 3);
INSERT INTO course_2022360045 VALUES ('HIS-351', 'World Principles', 'Physics', 4);

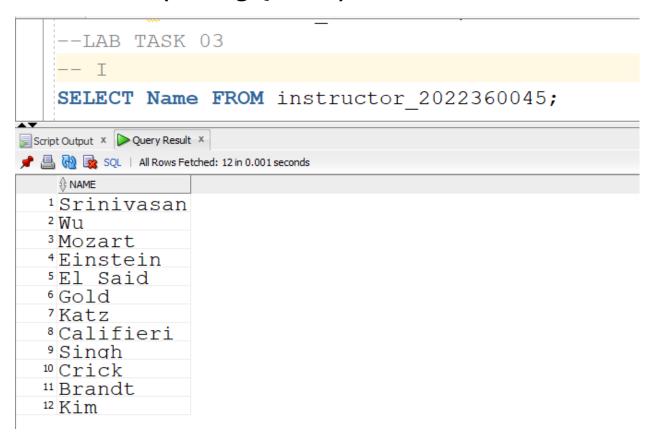
Societo Output * Query Result *

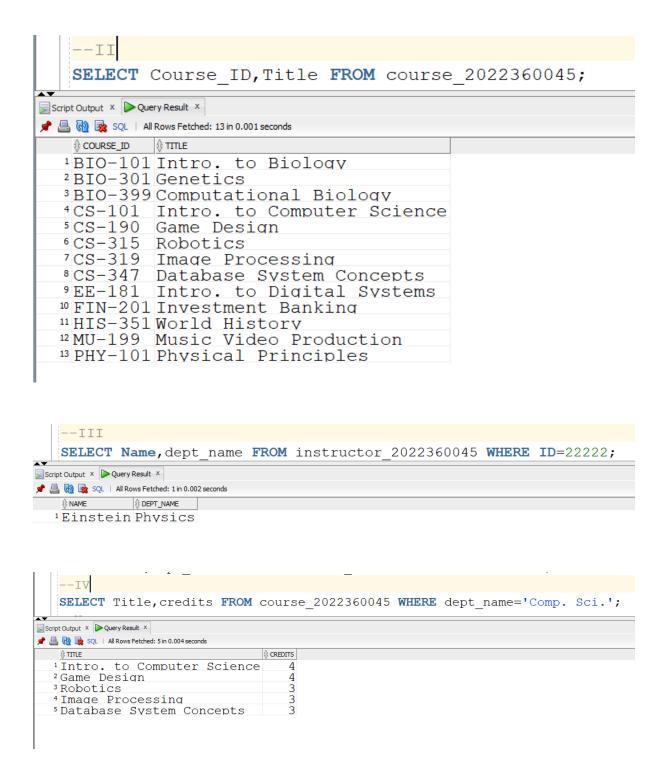
***Property of the property of the pr
```

#### OUTPUT:

COURS	∯ TITLE	DEPT_NAME	
<sup>1</sup> BIO-101	Intro. to Biology	Biology	4
<sup>2</sup> BIO-301	Genetics	Biology	4
3 BIO-399	Computational Biology	Biology	3
4 CS-101	Intro. to Computer Science	Comp. Sci.	4
5 CS-190	Game Design	Comp. Sci.	4
6 CS-315	Robotics	Comp. Sci.	3
7 CS-319	Image Processing	Comp. Sci.	3
8 CS-347	Database System Concepts	Comp. Sci.	3
9 EE-181	Intro. to Digital Systems	Elec. Eng.	3
10 FIN-201	Investment Banking	Finance	3
11 HIS-351	World History	History	3
12 MU-199	Music Video Production	Music	3
13 PHY-101	Physical Principles	Physics	4

# Lab Task # 03 (Writing Queries):





```
--\nabla
    SELECT name, dept name FROM instructor 2022360045 WHERE Salary > 70000;
Script Output × Query Result ×
📌 🖺 🝓 🏿 SQL | All Rows Fetched: 8 in 0.002 seconds
     NAME DEPT_NAME
    ¹ Wu
                 Finance
   <sup>2</sup> Einstein Physics
   3 Gold Physics
   ⁴Katz
                 Comp. Sci.
   5 Singh
                 Finance
   6 Crick
                 Biology
               Comp. Sci.
Elec. Enq.
   <sup>7</sup>Brandt
   8 Kim
     --VI
     SELECT title FROM course_2022360045 WHERE credits >= 4;
Script Output × Query Result ×
📌 🚇 🙀 🔯 SQL | All Rows Fetched: 5 in 0.003 seconds
   ∜ TITLE
   <sup>1</sup>Intro. to Biology <sup>2</sup>Genetics
   3 Intro. to Computer Science
   4 Game Design
   5 Physical Principles
   SELECT Name, Dept_name FROM instructor_2022360045 WHERE salary > 80000 AND salary < 100000;
 Script Output × Query Result ×
📌 📇 🙌 🅦 SQL | All Rows Fetched: 4 in 0.002 seconds
    ♦ NAME ♦ DEPT_NAME
  Wu Finance Einstein Physics
  Gold Physics Comp. Sci.
    SELECT Title, credits FROM course 2022360045 WHERE dept name !='Comp. Sci.';
Script Output × Query Result ×
📌 🖺 🝓 🔖 SQL | All Rows Fetched: 8 in 0.003 seconds
   ∯ TITLE
                                          ⊕ CREDITS
  <sup>1</sup>Intro. to Biology <sup>2</sup>Genetics
                                               4
                                               4
  Computational Biology
Intro. to Digital Systems
                                               3
                                               3
  5 Investment Banking
                                               3 3
  6World History
7Music Video Production
8Physical Principles
```

# --IX SELECT \* FROM instructor\_2022360045;

A V								
	Output × Query Resu	lt ×						
📌 📇 🙀 🔯 SQL   All Rows Fetched: 12 in 0.002 seconds								
	∯ ID ∯ NAME		1E					
1	10101 Srin	ivasan Comp.	. Sci.	65000				
2	12121 Wu	Finar	nce	90000				
3	15151 Mozai	rt Music		40000				
4	22222 Einst	tein Physi	ics	95000				
5	32343El Sa	aid Histo	orv	60000				
6	33456 Gold	Physi	ics	87000				
7	45565 Katz	Comp	. Sci.	75000				
8	58583 Calii	fieri Histo	orv	62000				
9	76543 Singl	n Finar	nce	80000				
10	76766 Cricl	c Biolo	oan	72000				
11	83821 Brand	dt Comp.	. Sci.	92000				
12	98345Kim	Elec	. Enq.	80000				

```
SELECT * FROM course_2022360045 WHERE dept_name = 'Biology' AND Credits != 4;

Script Output * PQuery Result * |

Script Output * PQuery Result * |

COURSE_ID | TITLE | DEPT_NAME | CREDITS |

BIO-399 Computational Biology Biology | 3
```