

Laboratory 04

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IC4301 – Databases I

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September 26th 2022.

In this document are the evidence of laboratory 04 where you can see the objects created, data inserted, modified, among others.

Evidence:

1. The point one is in the folder `Point 1` in the laboratory 04 zip.
2. The point two is in a folder `Point 2` in the laboratory 04 zip.
3. The point three is in a folder `Point 3` in the laboratory 04 zip, and there is a folder called in the middle of the points and in it are the tables created for both the entities, data insertion and others.
4. The point 4 by standard is created in all fields that will need the CONSTRAIN and is found in most of the fields in the tables that merit it
5. Develop the following functions, procedures or packages according to Corresponds, queries were made in a descending manner starting from d when the photographs were taken, therefore in the console the data that was printed is decremented:
 - a. getName from studentcard:
- Here is an image of table student before the query:

ID_STUDENT	FIRST_NAME	SECOND_NAME	FIRST_SURNAME	SECOND_SURNAME	STUDENT_CARD	ID_CAREER
1	Luis	Alejandro	Rivera	Valverde	19827162	0
2	Jeffrey	Daniel	Leiva	Cascante	20210987	0

- Here is an image with the query:

```

BEGIN
  vcName:= getName(20210987);
  dbms_output.put_line(vcName);
END;
  
```

PL/SQL procedure successfully completed.

Dbsm Output

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jeffleivajr@estudiantec.cr
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b. getEmail from id_student:

- Here is an image of table mail before the query:

The screenshot shows the Oracle SQL Developer interface. On the left, the Connections tree shows a connection to 'BASEUNO'. The central workspace displays the 'EMAIL' table structure with columns: ID_EMAIL, ADDRESS, and ID_STUDENT. Two rows of data are visible: row 1 with ADDRESS 'lalejandrorv@gmail.com' and ID_STUDENT '1'; and row 2 with ADDRESS 'jeffleivajr@estudiantec.cr' and ID_STUDENT '0'. Below the table view are tabs for 'Columns', 'Data', 'Model', 'Constraints', 'Grants', 'Statistics', 'Triggers', 'Flashback', 'Dependencies', 'Details', 'Partitions', 'Indexes', and 'SQL'. The bottom pane shows the 'Messages - Log' tab.

- Here is an image with the query:

The screenshot shows the Oracle SQL Developer interface. The central workspace contains a PL/SQL procedure in the 'Worksheet' tab:

```
BEGIN
    vcMail:= getEmail(0);
    dbms_output.put_line(vcMail);
END;
```

The 'Script Output' tab shows the result: 'Task completed in 0.085 seconds' and 'PL/SQL procedure successfully completed.' The bottom pane shows the 'Messages - Log' tab.

c. getCareer from the id_student, scilicet, the career to which belongs the student:

- Here is an image of table Career before the query:

The screenshot shows the Oracle SQL Developer interface. On the left, the Connections tree shows a connection to 'BASEUNO'. The central workspace displays the 'CAREER' table structure with columns: ID_CAREER, NAME_CAREER, and ID_CAMPUS. One row of data is visible: row 1 with NAME_CAREER 'Arquitectura' and ID_CAMPUS '0'. Below the table view are tabs for 'Columns', 'Data', 'Model', 'Constraints', 'Grants', 'Statistics', 'Triggers', 'Flashback', 'Dependencies', 'Details', 'Partitions', 'Indexes', and 'SQL'. The bottom pane shows the 'Messages - Log' tab.

- Here is an image with the query:

The screenshot shows the Oracle SQL Developer interface. The 'Worksheet' tab is active, displaying a PL/SQL block:

```

DECLARE
  vcCareer VARCHAR2 (30);
BEGIN
  vcCareer:= getCareer(0);
  dbms_output.put_line(vcCareer);
END;

```

The 'Dbsm Output' window shows the result of the query:

```

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Arquitectura

```

The 'Connections' sidebar shows the 'BASEUNO' connection with tables like CAMPUS, CAREER, COLLEGE, EMAIL, and STUDENT.

d. getCampus from id_student:

- Here is an image of table Campus before the query:

The screenshot shows the Oracle SQL Developer interface. The 'Tables' view in the 'Connections' sidebar shows the 'CAMPUS' table with columns ID_CAMPUS, NAME_CAMPUS, and ID_COLLEGE. A single row is selected:

	ID_CAMPUS	NAME_CAMPUS	ID_COLLEGE
1	0	TEC SAN JOSE	0

- Here is an image with the query:

The screenshot shows the Oracle SQL Developer interface. The 'Worksheet' tab is active, displaying a PL/SQL block:

```

DECLARE
  vcCampus VARCHAR2 (30);
BEGIN
  vcCampus:= getCampus(0);
  dbms_output.put_line(vcCampus);
END;

```

The 'Dbsm Output' window shows the result of the query:

```

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```

The 'Connections' sidebar shows the 'BASEUNO' connection with tables like CAMPUS, CAREER, COLLEGE, EMAIL, and STUDENT.