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Submitted to

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***BS-Software Engineering 4th-E***

Title: LAB Exercise 1

DBMS

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DBMS (MySQL)

# Chapter # 1 Exercise

**Question # 02**

iSQL\*Plus commands access the database(True/False).

**Answer**: **FALSE**

**Question #03**

The following SELECT statement executes successfully:

SELECT last\_name, job\_id, salary AS Sal

FROM employees;

**Answer: True**

**Question # 04**

The following SELECT statement executes successfully:

SELECT \*

FROM job\_grades;

**Answer: True**

**Question # 05**

There are four coding errors in this statement. Can you identify them?

SELECT employee\_id, last\_name

sal x 12 ANNUAL SALARY

FROM employees;

**Answer: SELECT employee\_id, last\_name, salary\*12 As “ANNUAL SALARY” FROM employees;**

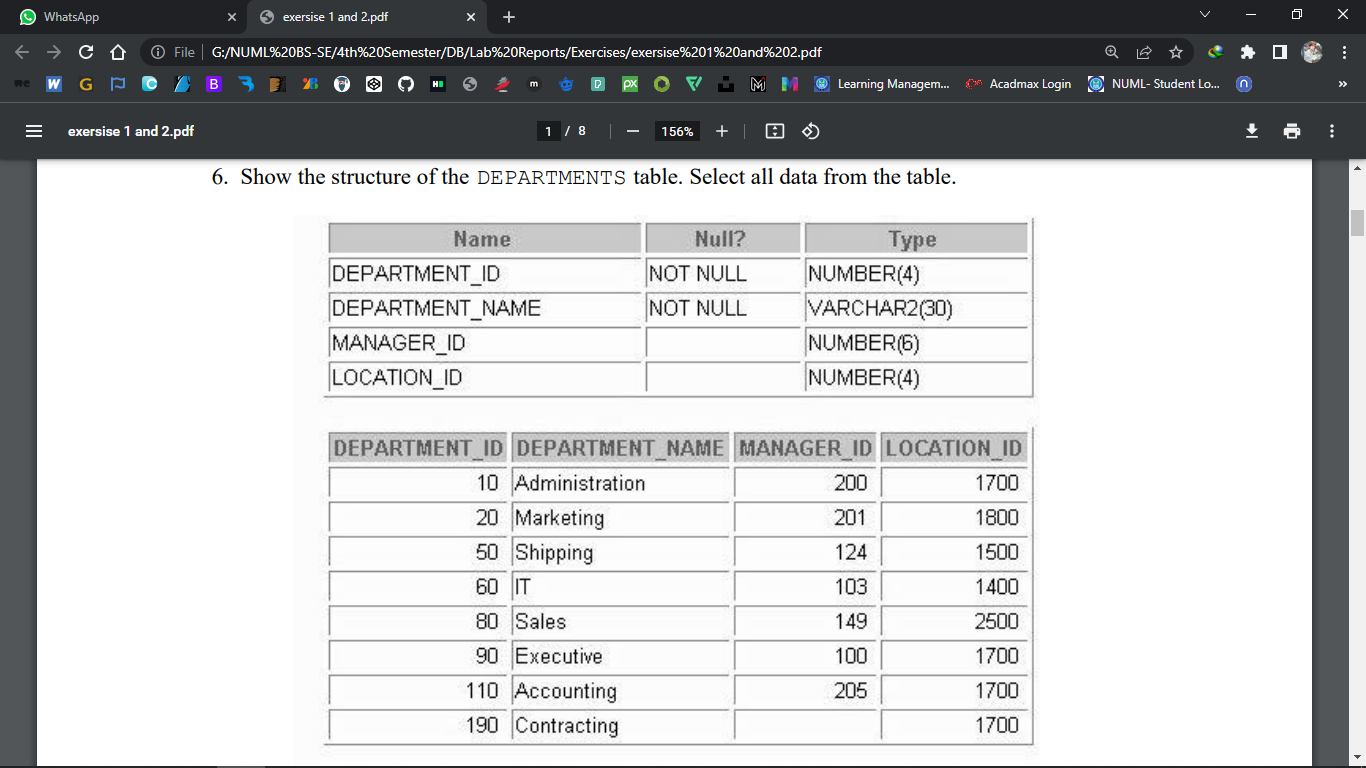
* The EMPLOYEES table does not contain a column called sal. The column is called SALARY.
* The multiplication operator is \*, not x, as shown in line 2.
* The ANNUAL SALARY alias cannot include spaces. The alias should read

ANNUAL\_SALARY or be enclosed in double quotation marks.

* A comma is missing after the column, LAST\_NAME.

**Question # 06**

Show the structure of departments table. Select all data from the table.

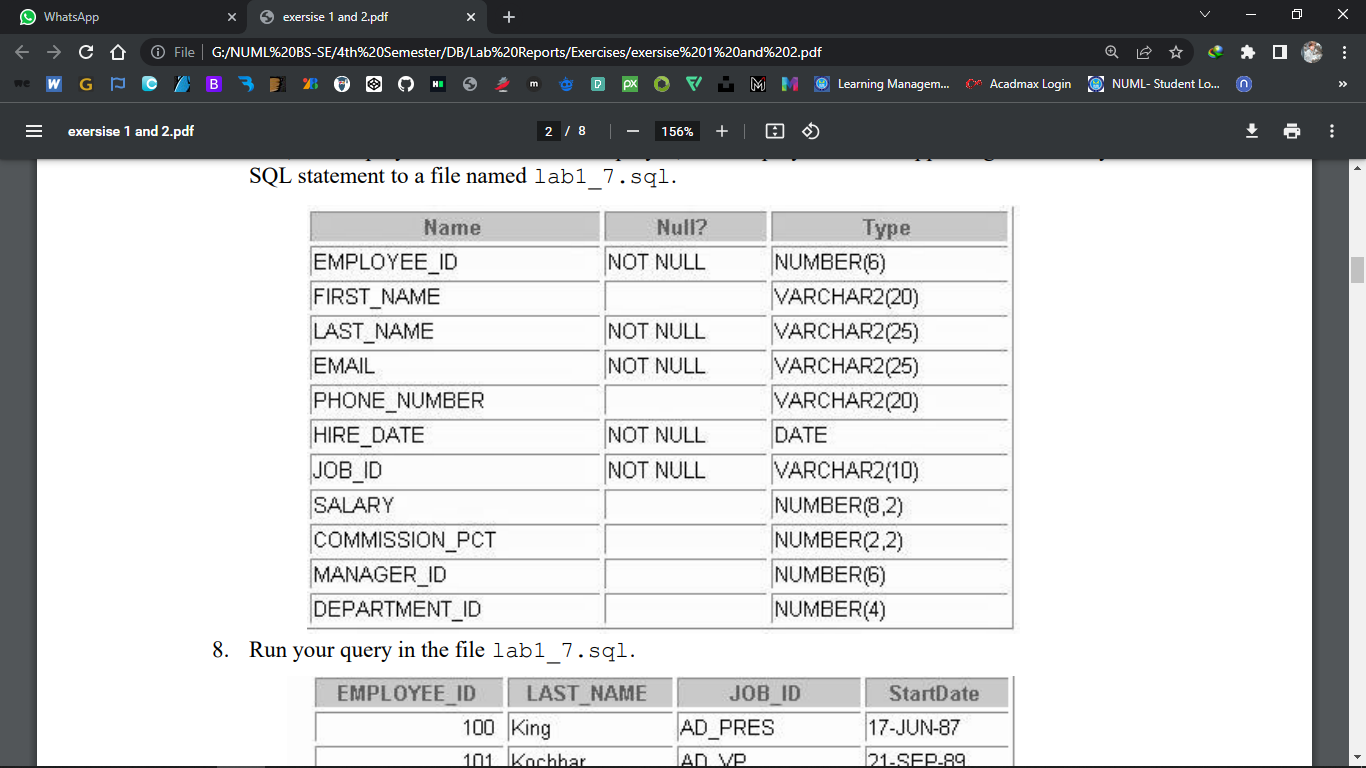


**Answer:**

* **Describe departments;**
* **SELECT \* FROM departments;**

**Question #07**

Show the structure of Employees table. Create a query to display last name, job code, hire date and employee number for each employee, with employee number appearing first. Save your SQL statement to a file named labl\_7.sql

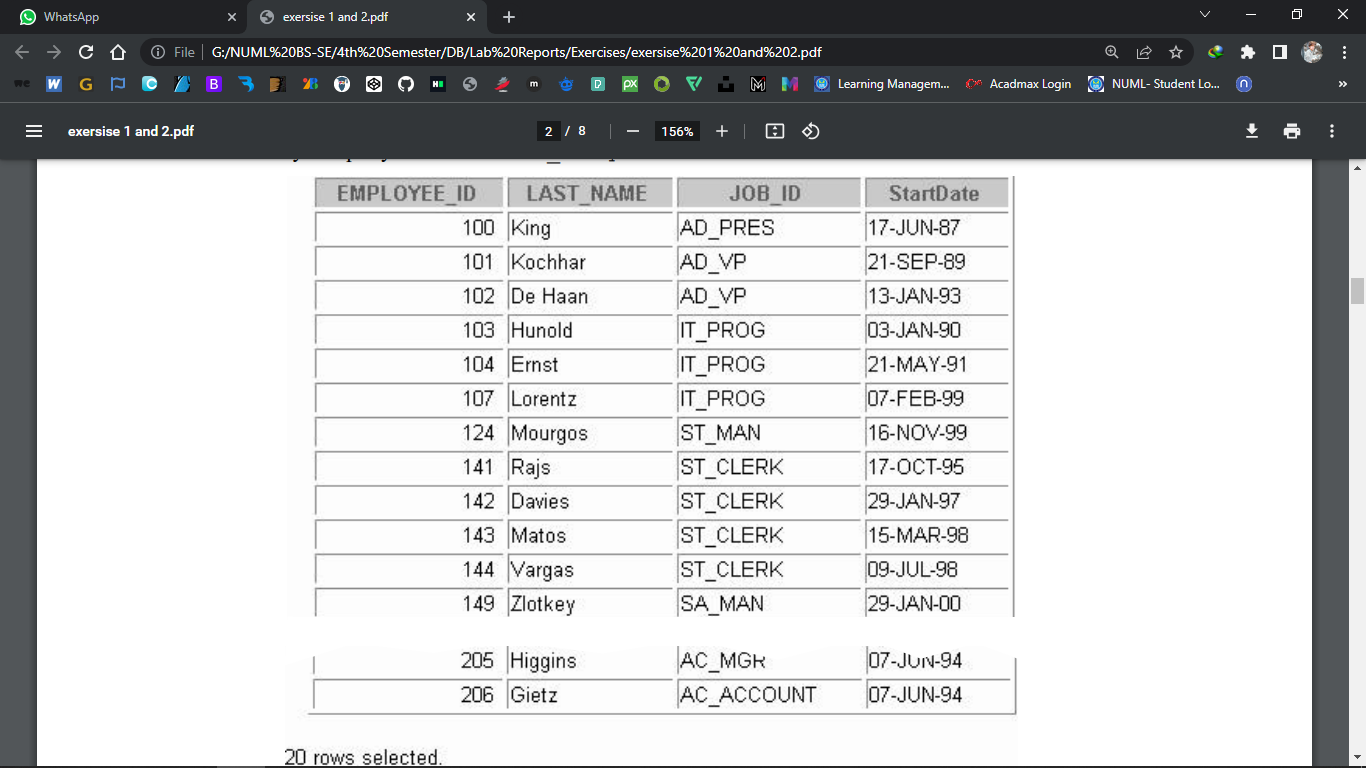


**Answer:**

* **DESCRIBE employees;**
* **SELECT employee\_id, last\_name, job\_id, hire date FROM employees;**

**Question # 08**

Run your query in the file lab\_7.sql.

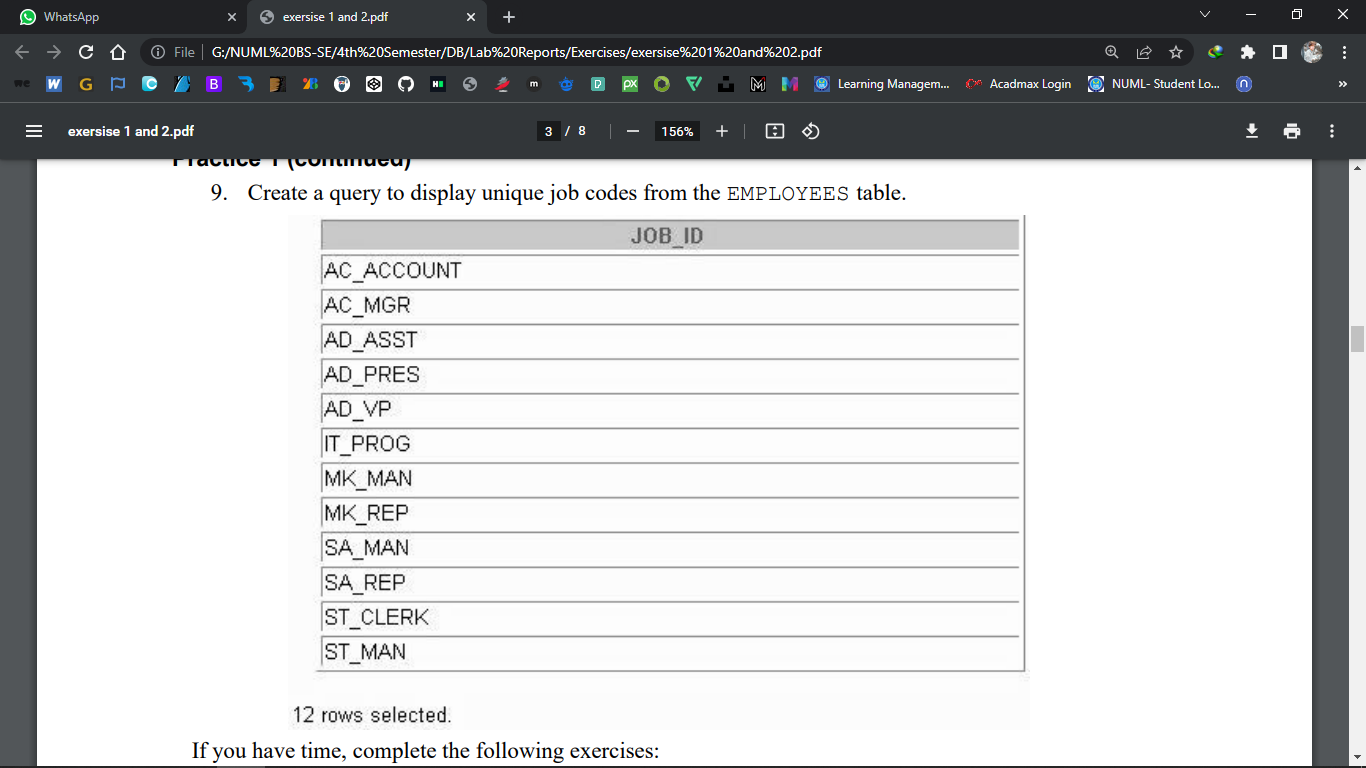


**Answer:**

**SELECT employee\_id, last\_name, job\_id, hire\_date FROM employees;**

**Question # 09**

Create a query to display unique job codes from the employees table.



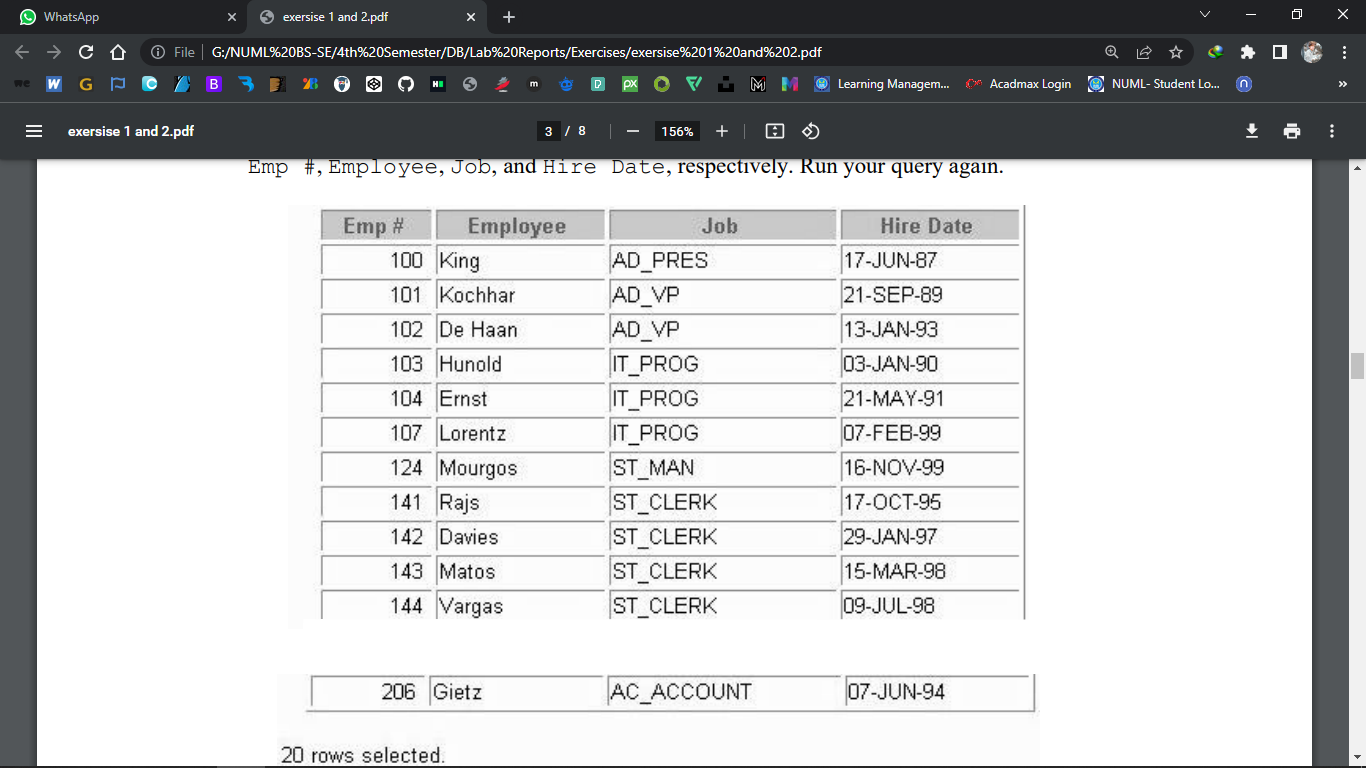
**Answer:**

**SELECT distinct job\_id FROM employees;**

**Question # 10**

Copy the statement from lab1\_7.sql into the iSQL\*Plus Edit window. Name the column

headings Emp #, Employee, Job, and Hire Date, respectively. Run your query again.



**Answer:**

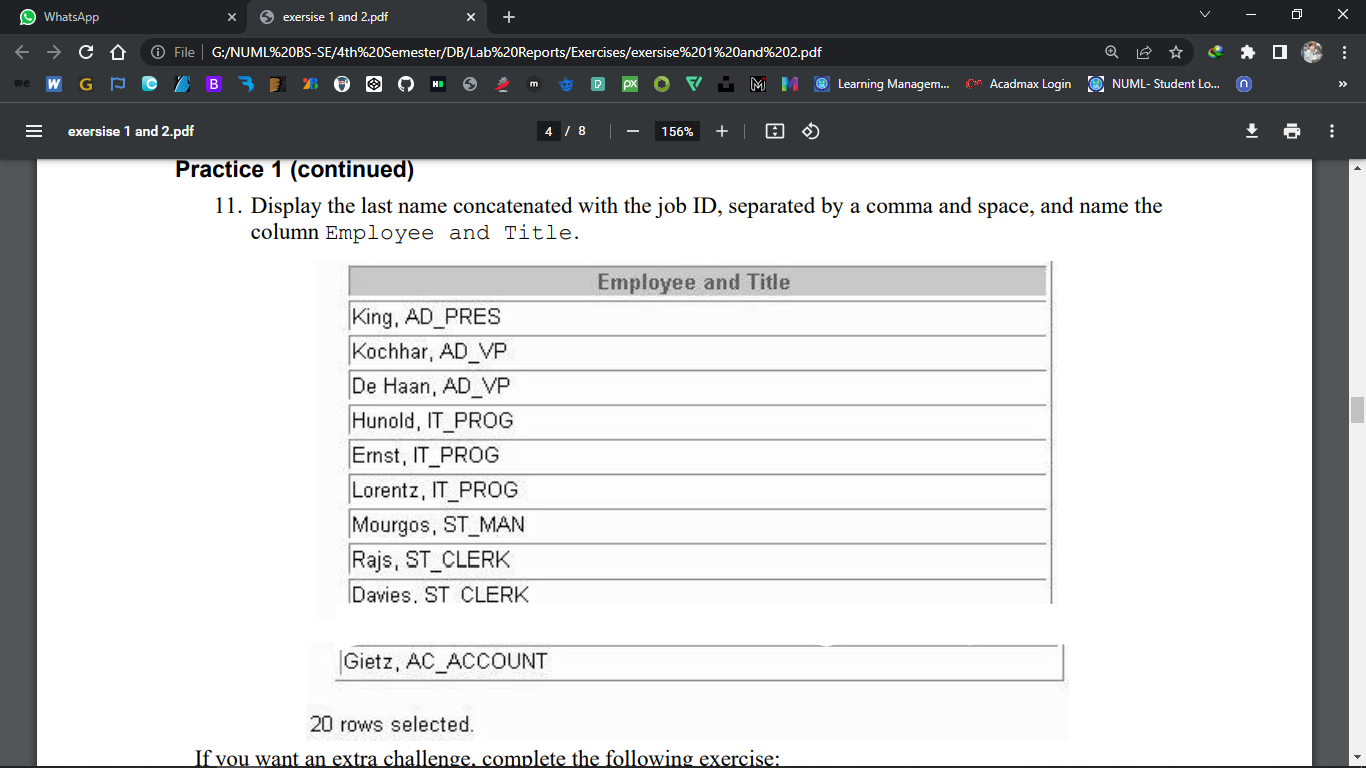
**SELECT employee\_id "Emp #", last\_name "Employee",**

**job\_id "Job", hire\_date "Hire Date"**

**FROM employees**;

**Question # 11**

Display the last name concatenated with the job ID, separated by a comma and space, and name the column Employee and Title.



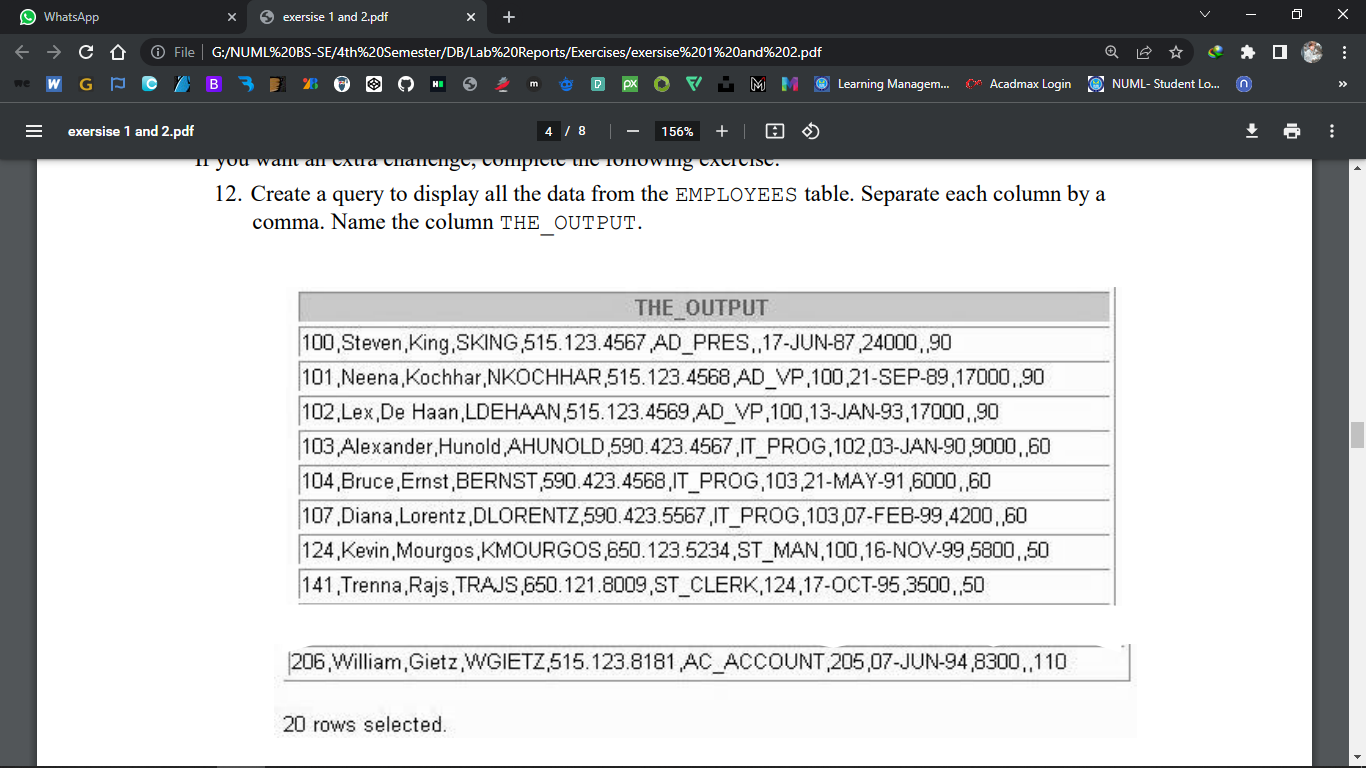
**Answer**

**SELECT last\_name||', '||job\_id "Employee and Title"**

**FROM employees;**

**Question # 12**

Create a query to display all the data from employees table. Separate each column by a comma, name the column THE\_OUTPUT

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**Answer**

**SELECT employee\_id || ',' || first\_name || ',' || last\_name || ',' || email || ',' || phone\_number || ','|| job\_ id || ',' || manager\_id || ',' || hire\_date || ',' || salary || ',' || commission\_pct || ',' || department \_id THE\_OUTPUT FROM employees;**