Assignment#1: Lab#2

**Database Systems Lab** 

Submitted to:

Ma'am Maroof

Submitted by:

Zeeshan Ahmed (#19014020023)



Knowledge Unit of Science & Technology

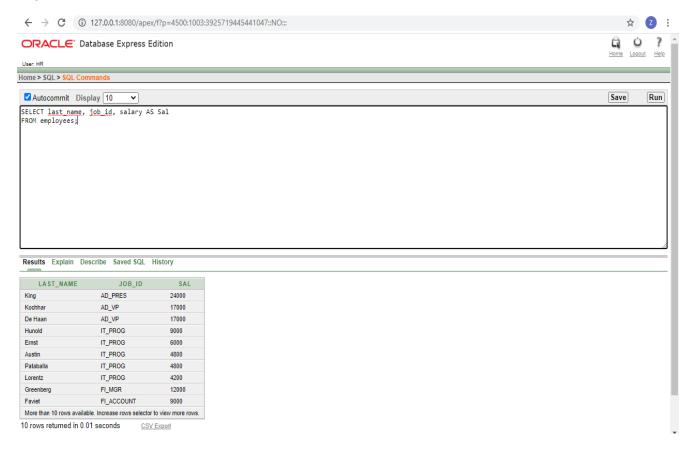
University of Management & Technology

### **LAB TASKS**

# 1. The following SELECT statement executes successfully:

# SELECT last\_name, job\_id, salary AS Sal FROM employees;

### Ans:

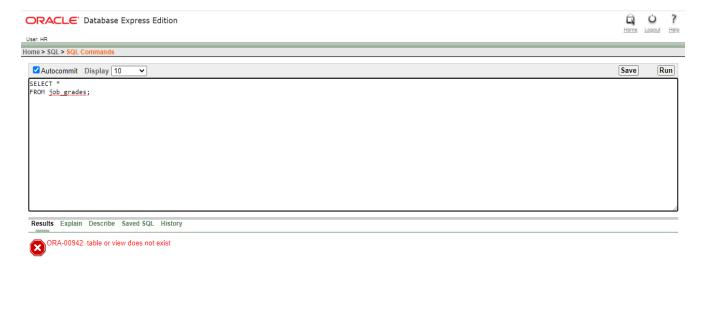


# 2. The following SELECT statement executes

successfully: SELECT \* FROM job\_grades;

### Ans:

There is no attribute for job\_grades in employee table



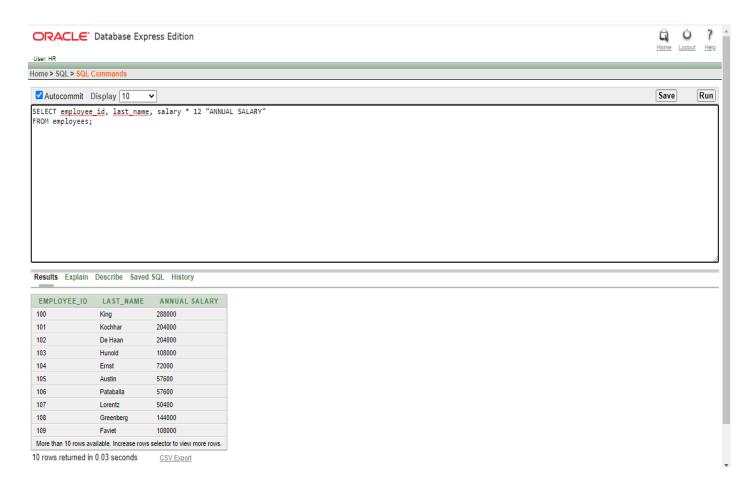
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Language: en-us

3. There are four coding errors in the following statement. Can you identify them? SELECT employee\_id, last\_name sal x 12 ANNUAL SALARY FROM employees;

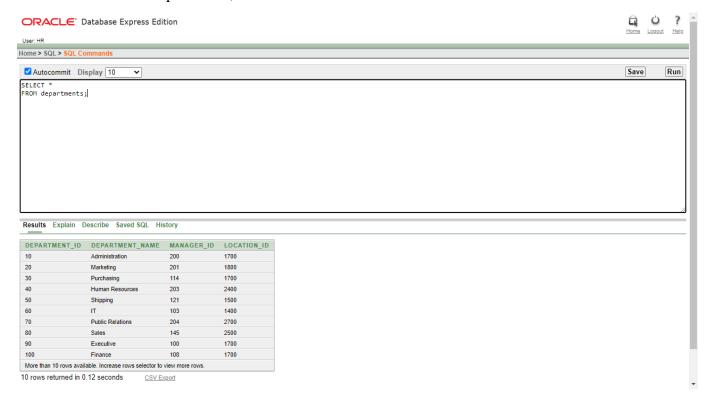
Ans: 1. There is no, (coma) after last\_name entity.

- 2. For multiplication we use \* (asterisk sign) but here the error is sal x 12. We use arithmetic operator (\*) for multiplication instead of x.
- 3. The entity salary is written as sal before multiplication error.
- 4. The ANNUAL SALARY must be written in inverted comas as the error is sal x 12 ANNUAL SALARY FROM employees;



# 4. Write a query that return all columns and all records of department table.

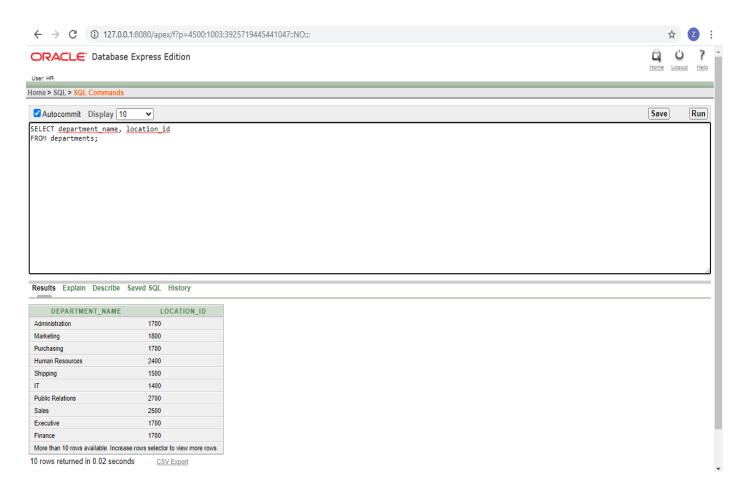
Ans: SELECT \* FROM departments;



# 5. Write a query that return only department\_name and location\_id.

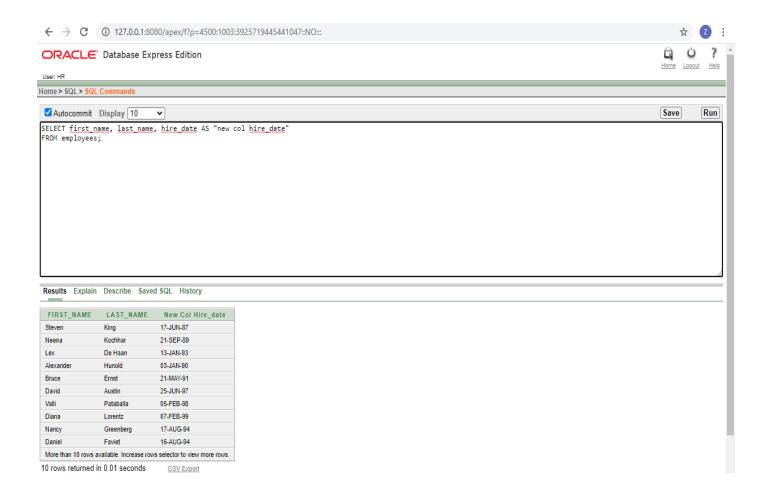
Ans: SELECT department\_name, location\_id

### FROM departments;



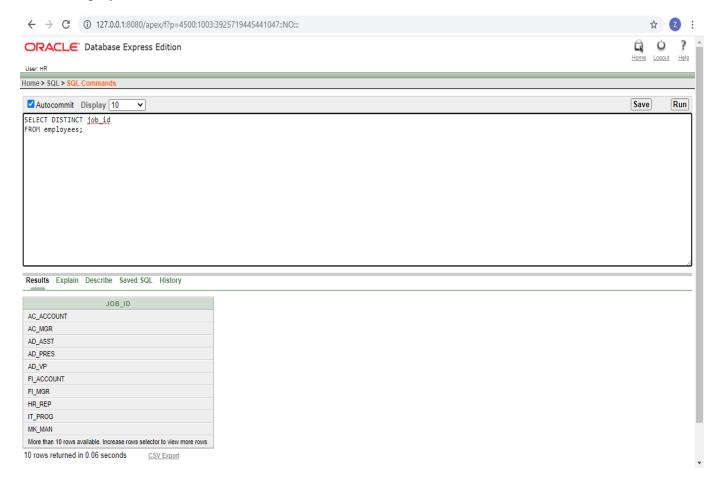
# 6. Get all employees with their name and hire date, change the column heading of hire date column.

Ans: SELECT first\_name, last\_name, hire\_date AS "new col hire\_date"

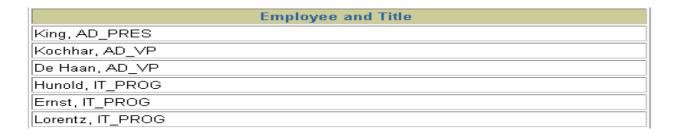


# 7. Write a query that display all unique job codes from Employee table.

Ans: SELECT DISTINCT job\_id

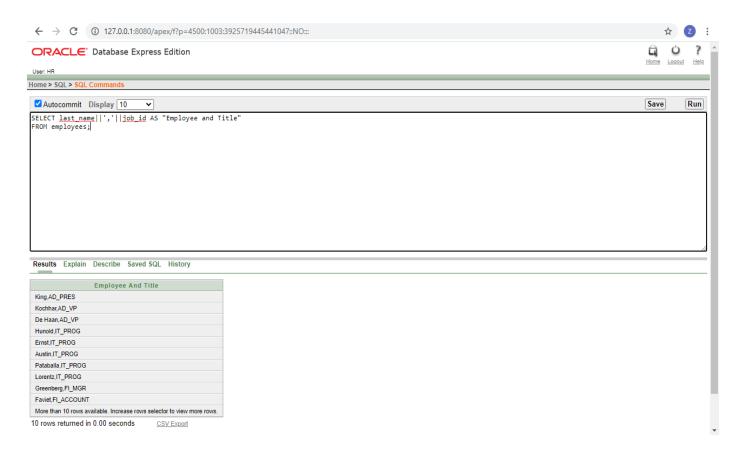


8. Write a query that print all employees and their job IDs, Display the last name concatenated with the job ID (separated by a comma and space) and name of the column Employee and Title.



Ans: SELECT last\_name||','||job\_id AS "Employee and

Title"



9. To familiarize yourself with the data in the EMPLOYEES table, create a query to display all the data from that table. Separate each column output by a comma. Name the column title THE\_OUTPUT.

THE_OUTPUT
100,Steven,King,SKING,515.123.4567,AD_PRES,,17-JUN-87,24000,,90
101,Neena,Kochhar,NKOCHHAR,515.123.4568,AD_VP,100,21-SEP-89,17000,,90
102,Lex,De Haan,LDEHAAN,515.123.4569,AD_VP,100,13-JAN-93,17000,,90
103,Alexander,Hunold,AHUNOLD,590.423.4567,IT_PROG,102,03-JAN-90,9000,,60

**Ans:** SELECT

 $employee\_id||','||first\_name||','||last\_name||','||email||','||pho\\ ne\_number||','||job\_id||','||hire\_date||','||salary||','||commissio\\ n\_pct||','||manager\_id||','||department\_id\ AS\\ "THE\_OUTPUT"$ 

