

## Course: DATABASE

### Instructor: Syed Adnan

## Lab-02

Total marks : 15

### Instructions!

1. This is an individual lab and absolutely **NO** collaboration is allowed with your peers. If you face any difficulty feel free to discuss with TAs.
  2. Cheating will result in a **ZERO** for the lab. (Finding solutions online is cheating, Copying someone else's solution is cheating). Also, do not hand your work over to another student to read/copy. If you allow anyone to copy your work, in part or in whole, you are liable as well.
  3. No late submissions will be accepted after due time (5:00) so manage emergencies beforehand.
  4. Perform all the tasks given in this document on *Oracle10g* (Sql command line)
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### Opening the tool:

[0 Marks]

Display the SQL online server.

Follow the instructions in the file “**how to.pdf**” to get to screen

After following all the instructions, you'll see the following tables

### Emp:

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7369	SMITH	CLERK	7902	17-DEC-80	800		20
7499	ALLEN	SALESMAN	7698	20-FEB-81	1600	300	30
7521	WARD	SALESMAN	7698	22-FEB-81	1250	500	30
7566	JONES	MANAGER	7839	02-APR-81	2975		20
7654	MARTIN	SALESMAN	7698	28-SEP-81	1250	1400	30
7698	BLAKE	MANAGER	7839	01-MAY-81	2850		30
7782	CLARK	MANAGER	7839	09-JUN-81	2450		10
7788	SCOTT	ANALYST	7566	09-DEC-82	3000		20
7839	KING	PRESIDENT		17-NOV-81	5000		10
7844	TURNER	SALESMAN	7698	08-SEP-81	1500		30
7876	ADAMS	CLERK	7788	12-JAN-83	1100		20
7900	JAMES	CLERK	7698	03-DEC-81	950		30
7902	FORD	ANALYST	7566	03-DEC-81	3000		20
7934	MILLER	CLERK	7782	23-JAN-82	1300		10
EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
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7902	FORD	ANALYST	7566	03-DEC-81	3000		20
7934	MILLER	CLERK	7782	23-JAN-82	1300		10

Dept:

DEPTNO	DNAME	LOC
10	ACCOUNTING	NEW YORK
20	RESEARCH	DALLAS
30	SALES	CHICAGO
40	OPERATIONS	BOSTON
10	ACCOUNTING	NEW YORK
20	RESEARCH	DALLAS
30	SALES	CHICAGO
40	OPERATIONS	BOSTON

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### Task1: resolve all the following queries

[15 Mark]

Kindly follow these instructions:

- List down each command in order that you write on a notepad to show to your LE
- Take screen shot of each command and its output (using snipping tools)

1. Display the structure of table 'emp' and 'dept' (deal them as separate queries).
2. Get salary and commission of 'JONES' from the employ table
3. Get the unique department names from department table
4. Get the details of all the employs whos name comprises of this string "LL".
5. Get a list of employees who where hired on and after the date '08-sep-81'.
6. Get salaries of employees who are with clerks or Salesmen.
7. Get salaries of all employees in Rupees instead of Dollars.( Assume 1\$ = 100 pkr) and label this column as **actual\_sal**
8. Get a list of employees who have more than 500 commission and less the 1200.(use between)
9. Get a list of employees who don't have commission in this list (500,300).(use in)
10. Count the number of employees of department 30 and label the attribute as "grand total".
11. Concatenate the department number with employ name such that results are like this
12. **smith is in dept 20**. Additionally label this column as con
13. Show employee salary, department data in descending order w.r.t to salary.

14. Give name, salary, location and salary grade of employees those salary is 5 times of their commission.
15. Display the employ name and salary of an employ such that “if he is a employ or clerk then he qualifies for the check that whether his salary is 800 or not and if his salary is 800 then display his salary with increment of 300”

**Bonus:**

Give salary of only those employees whose Manager is 7902 or departments location is Boston.

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**Grading policy:**

1. To get full credit, your queries should be in running condition with correct output.
2. Absolutely NO credit will be given to query with no required output.
3. This lab will be graded along a viva session. Your grades will also depend upon the performance in your viva voice.

