COP 3710 – DATABASE MANAGEMENT SYSTEMS

LAB #1 - SQL EXERCISE

DUE DATES:

- 1.) Submit HARD COPY (This Handout) by: 2/21/13 (Thursday in Class) *Make a copy for yourself*
- 2.) SUMBIT SPOOL FILE on Blackboard by: 2/21/13 (Thursday by 10:00 a.m.)

Write the **SQL STATEMENT** for each query on the right and the **OUTPUT** below each query.

<u>OUTPUT</u>	SQL STATEMENT
The name, salary and commission of those imployees who have commissions. Display salaries in decreasing order.)	SOLY SELECT ENAME, SAL, COMM 2 FROM EMP
DUTPUT: ENAME SAL COMM	3 WHERE COMM 70 4 OLDER BY SAI DESC!
ALIEN 1600 300 MALTIN 1250 1400 WALD 1256 608	- 4 ORDER BY SAL DESC;
The name and age of the Accounting majors. Display the names in alphabetic order.) DUTPUT: BAKER PARKS 19 RYE 18	SQL > SELEUT NAME, AGE 2 FROM STUDENT 3 WHERE MASUR = 'ACCOUNTING' 4 OLDER BY NAME ASC;
The student number, grade level and age of those tudents who have an S at the end of their name, re not accounting majors, and younger than 40 ears old.	SQL 7 SELECT SID, GRADE-LEVEL, AGE 2 FROM STUDENT 3 WHERE NAME LIKE '905' 4 AND MAJOR L7 'ACCOUNTING'
OUTPUT: 510 GR AGE 100 GR 21 460 SN 24	S AND ALE 41;
The major and the number of students in each najor.	SPLY SELECT MAJOR, COUNTMAJOR) AS AMTINMAS 2 FROM STUDENT
DUTPUT: MA JOR AMTIN MASOR HISTORY 3 MATH 2 ACCOUNTING 3	3 GROUP BY MASORS
The major and the number of students in each major where there are exactly 3 students in that major. Display majors in alphabetic order.)	SQL > SELECT MAJOR, COUNT (MAJOR) AS AMPINI 2 FROM STUDENT 3 GROUP BY MAJOR
DUTPUT: MAJOR AMTINATOR	4 HANNS (OUNT (M302) = '3' 5 ORDER BY MAJON;
ACLOUNTING 3 HISTORY	2 DIEDER BY WAZON

<u>OUTPUT</u>	SQL STATEMENT
Job title, number of each job title and average salary times 12 for those employees with jobs where there are more than 2 employees. (Display alphabetically by job.) OUTPUT:	
The job and salary of the employee making the least in each job. OUTPUT: Job Lement Salary MANAGEL 2450 ANALYST 3000 PRESIDENT 5000 SALEMAN 1250 CLERK 800	SQL > SELECT JOB, MIN(SAL) as "LOWEST SALEY, 2 FROM EMP 3 GROUP BY JOB;
The manager and the number of employees each manager supervises. (Refer to mgr attribute.) OUTPUT:	
Student number and the number of classes each student is enrolled in for those students taking more than two courses. OUTPUT: STUDENT_NUMBER OF CLASSES	SQL > SELECT STUDENT_HUMBER, COUNT (STUDENT- AS "NUMBER OF CLASSES" 2 FROM ENROLMENT 3 HAVING COUNT (STUDENT-NUMBER) > 2 4 GROVE BY STUDENT_NUMBER;
The major and the number of students in each major where there are exactly 3 students in that major. (Display majors in alphabetic order.)	SQL 7 SELECT MASOR, COUNT (MASOR) AS 11 STUDENTS IN 2 FROM STUDENT 3 GROUP By MASOR
OUTPUT: NA 30R STUDENTS IN MASOR ACCOUNTING 3	4 HAVING COUNTLINSON)= '3' 5 ORDER BY MASOR;

11. The total amount of salary earned by all employees.

OUTPUT:

TOTAL SALAY

2 9025

12. The student number and the names of students who have a major that contains a 'Y' excluding the student named Jones.

OUTPUT:

SID NAME

250 GLASS