ITSE 2309
Distant Learning
LAB #2a and 2b

More SQL Queries and Modification (100 points)

Oracle 11g SQL–Chapters- 3,6,8,9,11,12,

You will continuing using items created in Lab 1

Lab 2a -- Problems 1–4,

1. For each **customer**, list each stock item ordered, 1) the manufacturer,
2) the quantity ordered, and
3) the total price paid.

Include the following columns in the order given below:

- From Customer Table: Company
- From Stock Table: Description
- From the Manufact Table: Manu_Name
- From the Items Table: Quantity, Total Price

Order the output by Company and Description.

Submit/hand in Output from SQL query

2. List all orders with a shipping date between **December 25, 1999 and January 5, 2000**

Include 1) the Order Number,
2) Order Date,
3) Customer company name, and
4) Shipping Date.

Order by
Customer Company Name and Order Number.

Submit/hand in Output from SQL query

3. Count the number of customers who do not have any orders placed.

Submit/hand in Output from SQL query

4. List all customers –
   I) Who are ordering equipment whose description begins with 'tennis' or 'volleyball'.

   II)Include
   1) Customer number,
   2) Stock number, and
   3) Description.

Submit/hand in Output from SQL query

Do not repeat any rows.

ITSE 2309
Distant Learning
LAB #2a and 2b

Lab 2b Problems 5, 6, 7 and 8

5. Use the following SQL CREATE commands to CREATE the following tables in your

```
CREATE TABLE Professor
(Prof_ID        NUMBER(3) Constraint pk_Professor Primary Key,
Prof_Lname      VARCHAR2(15)        NOT NULL,
Prof_Hiredate   DATE,
Prof_Sal        NUMBER(8,2),
Prof_Dept       CHAR(6),
);

CREATE TABLE Student
(Stu_ID         NUMBER(4) Constraint pk_Student Primary Key,
Stu_Lname       VARCHAR2(15)        NOT NULL,
Stu_Major       CHAR(6),
Stu_CredHrs     NUMBER(4),
Stu_GradePts    NUMBER(5),
Prof_ID         NUMBER(3),
CONSTRAINT fk_Student_Prof_ID FOREIGN KEY(Prof_ID)
        REFERENCES Professor
);
```

Submit/Hand in: Print out of the Create commands, the system response and a **DESCRIBE** of the tables created.

6. Insert the following data into the tables created above using SQL INSERT commands.

Professor Table:

Prof_ID	Prof_Lname	Prof_Hiredate	Prof_Sal	Prof_Dept
123	Hilbert	20-MAY-1992	58000.00	MATH
243	Newell	15-JUL-1997	65500.00	CMPSCI
389	Lessing	04-APR-1988	40250.00	ENG

Student Table:

Stu_ID	Stu_Lname	Stu_Major	Stu_CredHrs	Stu_GradePts	Prof_ID
2001	Parker	CMPSCI	52	160	243
2166	Smith	ENG	30	75	389
3200	Garcia	MATH	62	248	123
4520	Smith	CMPSCI	45	157	NULL

BE SURE TO ISSUE A COMMIT AFTER TABLE MODIFICATION COMMANDS HAVE BEEN RUN SUCCESSFULLY.

Submit a

Listing of each INSERT command,

The systems response and the resulting tables after the INSERTS are completed

(Example: SELECT * FROM Student;).

ITSE 2309
Distant Learning
LAB #2a and 2b

7. Perform the following SQL DELETE statements. Be sure to do them in order.

Issue a COMMIT command after all DELETEs have run.

a. Try to delete Professor 389. What message do you get? _____
b. Delete Student 2166.
c. Now Delete Professor 389. Explain why the first attempt in a. was unsuccessful, and this time the DELETE was successful.

Submit/hand in : A listing of the DELETE statements.

The answers to questions a. b. and c.

A listing of the two tables after the deletes have run.

8. Perform the following UPDATE commands.

Issue a COMMIT command after all UPDATEs have run.

a. Replace the value of the Prof_ID for Student 4520 with 243.
b. Add 10% to the salary for each professor

Submit/hand in : A listing of the UPDATE statements

A listing of the two tables after the UPDATEs have run.