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 that has placed an order, list each:

* The company name
* The item Description
* The manufacturer
* The quantity ordered
* 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 script and Output from SQL query

2. a) How many orders were shipped between December 25, 2019 and

January 5, 2020

B) List all orders with a shipping date of January 8, 2020

Include

1) The Order Number

2) Order Date

3) Customer company name

4) Shipping Date.

Order by

Customer Company Name and Order Number.

Submit/hand in script and Output from SQL query

3. How many customers have not placed an order?

Submit/hand in script and Output from SQL query

4.

List all customers–

I) Who are ordering equipment with a description that contains ‘ball’.

II) Include-

1) Customer number,

2) Stock number, and

3) Description.

Submit/hand in script and Output from SQL query

Do not repeat any rows.

LAB 2b

Problems 5, 6, 7 and 8

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

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 |
| 1223 | 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;).

7. Perform the following SQL DELETE statements.

**Be sure to do them in order.**

Issue a COMMIT command after all DELETEs have run.

1. Try to delete Professor 389. What message do you get? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. Delete Student 2166.
3. 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 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 each UPDATEs have run.

1. Make the Prof\_ID for Student 4520 be 1223.
2. Change what each professor is paid to be two and a half times what they earn now

Submit/hand in: A listing of the UPDATE statements

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