Assignment-5 ITI-2180 Foundations of Data and Database Management

1. Chapter 6 Hands-on Assignment (problems A – J: see below) – 50 points

Problem A: Chapter 6 Hands-on Assignment #1

Problem B: Chapter 6 Hands-on Assignment #2

Problem C: Chapter 6 Hands-on Assignment #3

Problem D: Chapter 6 Hands-on Assignment #4

Problem E: Chapter 6 Hands-on Assignment #5

Problem F:

JustLee Books wants to enhance their order tracking capabilities by adding functionality that allows every order to have a status. This status is a identified by a single character:

'P' the order is being *p*rocessed (the default value)

'B' the order is *b*ack-ordered

'C' the order has been *c*ancelled

'S' the order has been *s*hipped

Change the structure of the ORDERS table to allow the order status by adding a column called *ostatus*. Provide a default value and a check constraint.

Problem G:

JustLee Books wants to keep a history of every order, from order placement through shipping, including if it is back-ordered or cancelled. Create a history table called OHISTORY that has the following fields (no columns can allow nulls):

*oseq#* - a chronological numerical value that is the primary key

*order#* - the order number with a foreign key to the ORDERS table

*ostatus* – must be one of the ostatus values specified above

*sdate* – the date/time when the status changed

Problem H: Create a sequence called *ohistory\_oseq#\_seq* for the OHISTORY table that will be used for the *oseq#* column when a new history record is inserted. Start this value at 1000.

Problem I: Create an index on the order# column of the OHISTORY table

Problem J: Prepare and execute a data dictionary (metadata) query to show the table name, index name, and column name for all indexes on the OHISTORY table.

Submit: A file called *Assignment-5-Results.docx* with formatted SQL & output to Blackboard.

Hint: There is a dummy table in all Oracle database called DUAL. It’s just a table you can use that really doesn’t have anything in it, but you can use it to test *seq*.NEXTVAL in sequences.