

**Assignment #10***Questions 1-3 are worth 3 points each and should be answered in 3-5 sentences.*

1. What is an index? How is used in a database? Which type of column would make an ideal index?
2. Can an index be created in any table? Why would you NOT want to create an index in a table?
3. What is a sequence? Why are sequences used? What are some issues that occur when using sequences?

*Questions 4-7 are worth 4 points each.*

4. Write the code to create a new table as shown below and create an index on the Project\_Name column.

Table Name: Manager

Column Name:	ManagerID	Manager_Name	Project_ID	Project_Name
Key Type:	Primary Key			
Null/Unique:	Not Null		Not Null	Not Null
FK Table:				
FK Column:				
Data Type:	INTEGER	VARCHAR	INTEGER	VARCHAR
Max Length:	7	30	7	30

5. Write the code to create an index on the Project\_ID column of the Manager table.
6. Write the code to remove the index on the Project\_Name column of the Manager table.
7. Write the code to create a new table as shown below and create a sequence on the Patient\_ID column.

Table Name: Patient

Column Name:	Patient_ID	P_Name		
Key Type:	Primary Key			
Null/Unique:	Not Null, Unique	NOT NULL		
FK Table:				
FK Column:				
Data Type:	INTEGER	VARCHAR		
Max Length:	7	30		