Question 6

USE [pubs] –

Uses database pubs

[GO](file:///\\GO) –

Go will execute commands in sql for pubs database.

SET ANSI\_NULLS ON -

Specifies ISO compliant behaviour of the Equals (=) and Not Equal To (<>) comparison operators when they are used with null values in SQL Server 2016

SET QUOTED\_IDENTIFIER ON

Causes SQL Server to follow the ISO rules regarding quotation mark delimiting identifiers and literal strings. Identifiers delimited by double quotation marks can be either Transact-SQL reserved keywords or can contain characters not generally allowed by the Transact-SQL syntax rules for identifiers.

CREATE TABLE [dbo].[authors]

Creates table authors for pubs database with mentioned column names , data types and constraints.

CONSTRAINT [UPKCL\_auidind]

The action is aborted by the constraint au\_id which indexed, if there is any violation between the constraint and the data action.

PRIMARY KEY CLUSTERED

The PRIMARY KEY constraint uniquely identifies each record in a database table authors. The word clustered means it has typical index order for row.

ASC

Sets ascending order for data

PAD\_INDEX = OFF

Fill factor is not specified: The intermediate-level pages are filled to near capacity, leaving sufficient space for at least one row of the maximum size the index can have, considering the set of keys on the intermediate pages.

STATISTICS\_NORECOMPUTE = OFF,

Stops the database-wide auto-updating (auto update statistics) from updating the specific statistics for an index (or column-level statistic)

IGNORE\_DUP\_KEY = OFF,

A duplicate key value causes an error and the entire statement is rolled back. That is, if the statement attempted to insert multiple rows, no rows are inserted.

ALLOW\_ROW\_LOCKS = ON, ALLOW\_PAGE\_LOCKS = ON

**QL decides on which lock level to create according to the amount of rows and memory available.**

ALTER TABLE [dbo].[authors] ADD DEFAULT ('UNKNOWN') FOR [phone]

The ALTER TABLE statement is used to add default value for column UNKNOWN for table authors.

ALTER TABLE [dbo].[authors] WITH CHECK ADD CHECK (([au\_id] like '[0-9][0-9][0-9]-[0-9][0-9]-[0-9][0-9][0-9][0-9]'))

|  |  |
| --- | --- |
|  | The first syntax is redundant - the WITH CHECK is default for new constraints, and the constraint is turned on by default as well for au\_id. This syntax is generated by the SQL management studio when generating sql scripts, it's some sort of extra redundancy, possibly to ensure the constraint is enabled even if the default constraint behaviour for a table is changed. |

Question 7

 Describe what the au\_id is using for a data type

Varchar(11) and its UPKCL Unique Prinamry Key , Clustered

It uses character string variable length here it is upto 11 length characters