

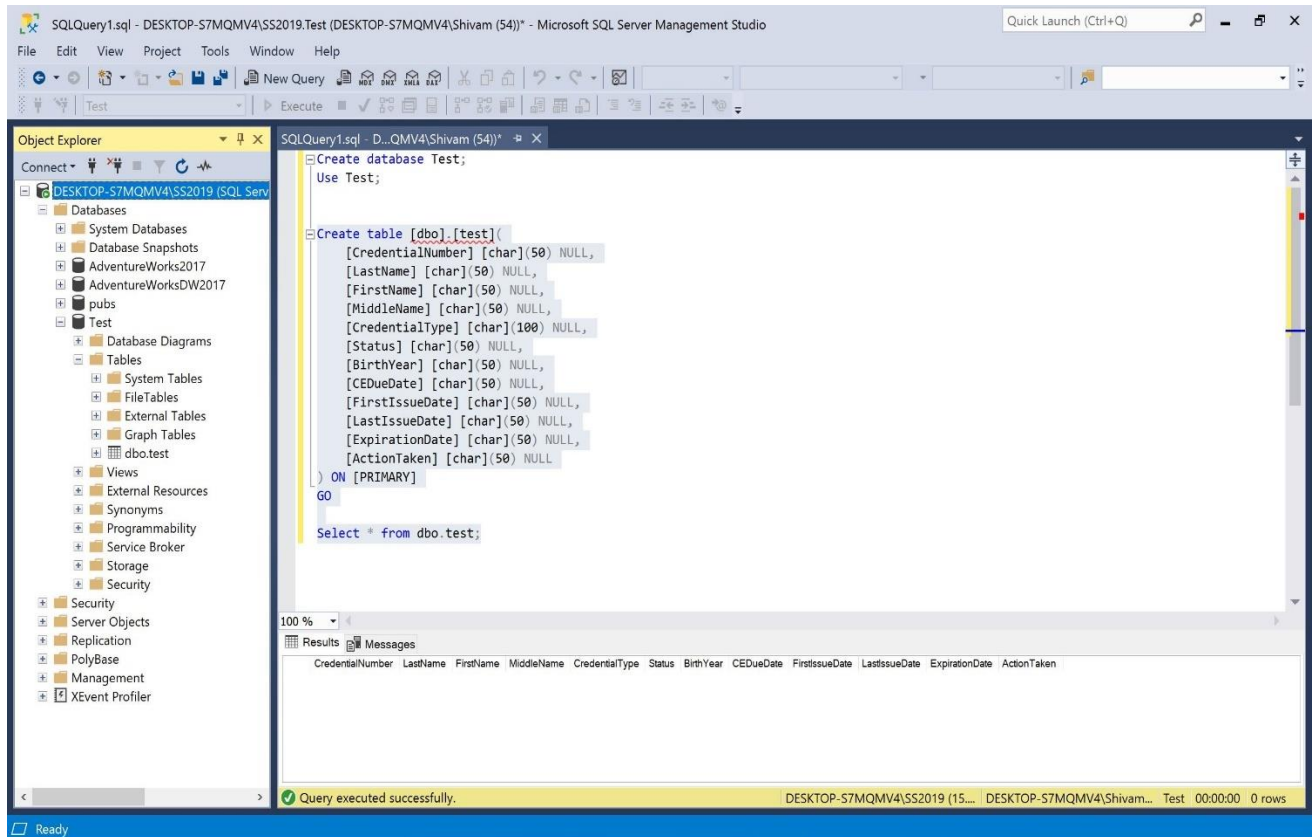
## **INFO 7290 (DWBI) HW03(b) – Bulk Copy Out**

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### **Create Table command:**

```
Create table [dbo].[test](  
    [CredentialNumber] [char](50) NULL,  
    [LastName] [char](50) NULL,  
    [FirstName] [char](50) NULL,  
    [MiddleName] [char](50) NULL,  
    [CredentialType] [char](100) NULL,  
    [Status] [char](50) NULL,  
    [BirthYear] [char](50) NULL,  
    [CEDueDate] [char](50) NULL,  
    [FirstIssueDate] [char](50) NULL,  
    [LastIssueDate] [char](50) NULL,  
    [ExpirationDate] [char](50) NULL,  
    [ActionTaken] [char](50) NULL  
) ON [PRIMARY]  
GO
```

## Screenshot of Creating a table in SQL Server:



## Screenshot of file to be copied into the table:

The screenshot shows a Notepad window titled 'input - Notepad'. The text inside is a list of data entries, each consisting of an ID, a name, a title, a status, and a date. The data is as follows:

HC60243358	Sangani Vasanti Vinud	Health Care Assistant Certification	SUPERSEDED	1969	2016
D160054498	Summers Kinda Lee	Dental Assistant Registration	EXPIRED	1968	20081206
NA60113523	Singh Wassan	Nursing Assistant Registration	EXPIRED	1984	20091008
RC60077317	Turner India Susanne	Counselor Registration	EXPIRED	1957	20090224
NA60052832	Castro Brittany	Marie Nursing Assistant Registration	EXPIRED	1990	20081110
LP00043030	Gill Stacey M	Licensed Practical Nurse	EXPIRED	1967	19931013
CG60773206	Porter Melissa Lynn	Counselor Agency Affiliated Registration	EXPIRED	1990	2016
NC10021659	EVERETT YOLANDA MARIE	Nursing Assistant Certification	EXPIRED	1970	19930323
RN60503295	McGraw Meaghan Jolene Layla	Registered Nurse License	CLOSED	1978	1993
CG60552906	Biggers Barbie Jo	Marie Counselor Agency Affiliated Registration	ACTIVE	1982	2016
NA60666607	Rawls Timothy Paul	Nursing Assistant Registration	SUPERSEDED	1982	20180912
NA00104992	TERAO ROSALIND	K Nursing Assistant Registration	EXPIRED	1947	19980428
IR60690684	Cornwall Mikayla Lynn	Pharmacist Intern Registration	ACTIVE	1995	20160824
NA00192656	OLSON JEAN	Nursing Assistant Registration	EXPIRED	1951	20070327
HC00138922	BORST AMY CHRISTINE	Health Care Assistant Certification	EXPIRED	1980	2008
VB60497939	McClure Miriam Anita	Pharmacy Assistant License	EXPIRED	1979	20140818
NA00026232	Mathew Susha Joseph	Nursing Assistant Registration	EXPIRED	1965	19900227
NA00042919	KLEIN LILLIE MAE	Nursing Assistant Registration	EXPIRED	1933	19911002
HC00008492	ECKHARDT JUDY	Health Care Assistant Certification	EXPIRED	1935	1993
NA60691272	Barwick Kimberly	Claire Nursing Assistant Registration	EXPIRED	1990	20160823

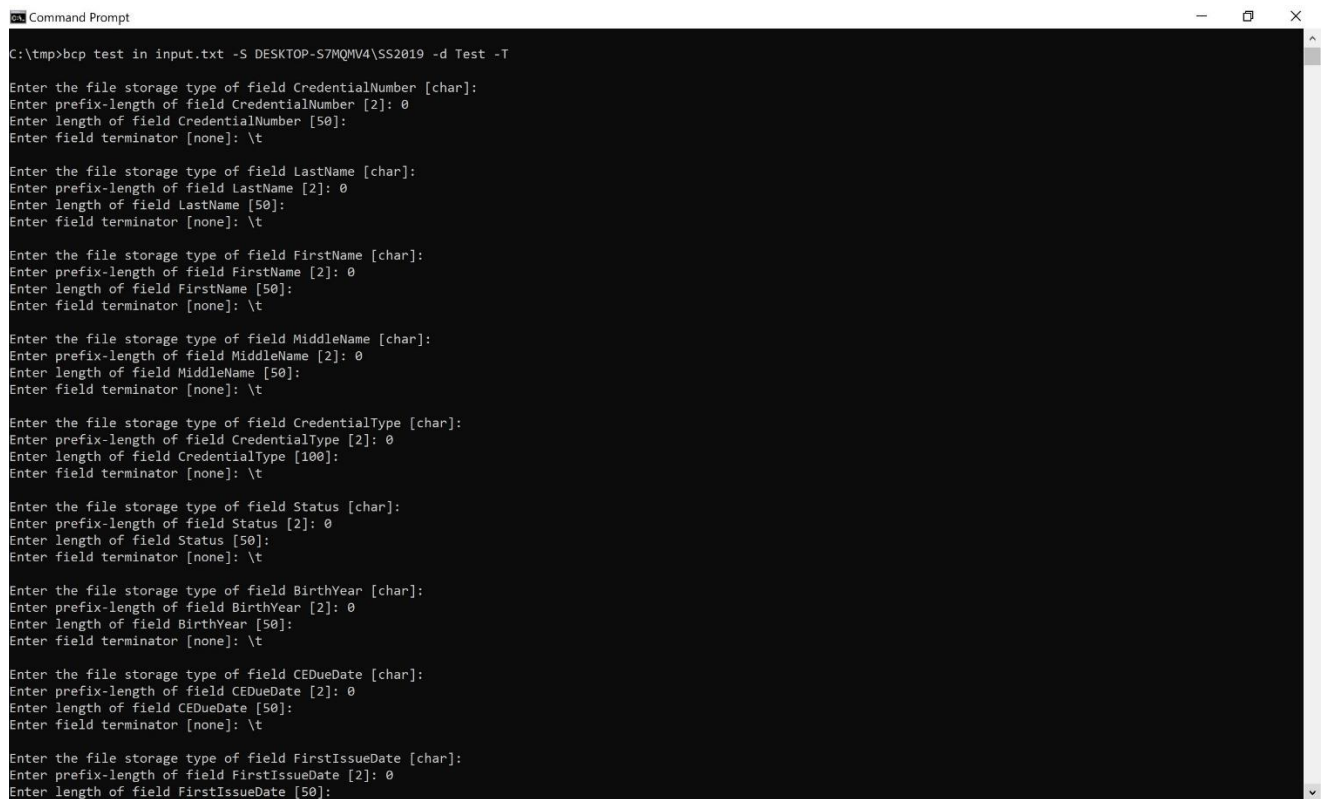
## Input commands:

- bcp test in input.txt -S DESKTOP-S7MQMV4\SS2019 -d Test -T

Generated with the prefix of 0, field type: char, terminated by (\t) and \n for the end of the record

- bcp test in input.txt -S DESKTOP-S7MQMV4\SS2019 -d Test -T -f bcp.fmt

## Screenshots of working bcp commands in command prompt:



```
Command Prompt
C:\tmp>bcp test in input.txt -S DESKTOP-S7MQMV4\SS2019 -d Test -T

Enter the file storage type of field CredentialNumber [char]:
Enter prefix-length of field CredentialNumber [2]: 0
Enter length of field CredentialNumber [50]:
Enter field terminator [none]: \t

Enter the file storage type of field LastName [char]:
Enter prefix-length of field LastName [2]: 0
Enter length of field LastName [50]:
Enter field terminator [none]: \t

Enter the file storage type of field FirstName [char]:
Enter prefix-length of field FirstName [2]: 0
Enter length of field FirstName [50]:
Enter field terminator [none]: \t

Enter the file storage type of field MiddleName [char]:
Enter prefix-length of field MiddleName [2]: 0
Enter length of field MiddleName [50]:
Enter field terminator [none]: \t

Enter the file storage type of field CredentialType [char]:
Enter prefix-length of field CredentialType [2]: 0
Enter length of field CredentialType [100]:
Enter field terminator [none]: \t

Enter the file storage type of field Status [char]:
Enter prefix-length of field Status [2]: 0
Enter length of field Status [50]:
Enter field terminator [none]: \t

Enter the file storage type of field BirthYear [char]:
Enter prefix-length of field BirthYear [2]: 0
Enter length of field BirthYear [50]:
Enter field terminator [none]: \t

Enter the file storage type of field CEDueDate [char]:
Enter prefix-length of field CEDueDate [2]: 0
Enter length of field CEDueDate [50]:
Enter field terminator [none]: \t

Enter the file storage type of field FirstIssueDate [char]:
Enter prefix-length of field FirstIssueDate [2]: 0
Enter length of field FirstIssueDate [50]:
```

Cont.

```
Command Prompt
Enter the file storage type of field FirstIssueDate [char]:
Enter prefix-length of field FirstIssueDate [2]: 0
Enter length of field FirstIssueDate [50]:
Enter field terminator [none]: \t

Enter the file storage type of field LastIssueDate [char]:
Enter prefix-length of field LastIssueDate [2]: 0
Enter length of field LastIssueDate [50]:
Enter field terminator [none]: \t

Enter the file storage type of field ExpirationDate [char]:
Enter prefix-length of field ExpirationDate [2]: 0
Enter length of field ExpirationDate [50]:
Enter field terminator [none]: \t

Enter the file storage type of field ActionTaken [char]:
Enter prefix-length of field ActionTaken [2]: 0
Enter length of field ActionTaken [50]:
Enter field terminator [none]: \n

Do you want to save this format information in a file? [Y/n] Y
Host filename [bcp.fmt]:

Starting copy...
1000 rows sent to SQL Server. Total sent: 1000
1000 rows sent to SQL Server. Total sent: 2000
1000 rows sent to SQL Server. Total sent: 3000
1000 rows sent to SQL Server. Total sent: 4000
1000 rows sent to SQL Server. Total sent: 5000
1000 rows sent to SQL Server. Total sent: 6000
1000 rows sent to SQL Server. Total sent: 7000
1000 rows sent to SQL Server. Total sent: 8000
1000 rows sent to SQL Server. Total sent: 9000
1000 rows sent to SQL Server. Total sent: 10000
1000 rows sent to SQL Server. Total sent: 11000
1000 rows sent to SQL Server. Total sent: 12000
1000 rows sent to SQL Server. Total sent: 13000
1000 rows sent to SQL Server. Total sent: 14000
1000 rows sent to SQL Server. Total sent: 15000
1000 rows sent to SQL Server. Total sent: 16000
1000 rows sent to SQL Server. Total sent: 17000
1000 rows sent to SQL Server. Total sent: 18000
1000 rows sent to SQL Server. Total sent: 19000
1000 rows sent to SQL Server. Total sent: 20000
1000 rows sent to SQL Server. Total sent: 21000
1000 rows sent to SQL Server. Total sent: 22000
```

Cont.

```
Command Prompt
1000 rows sent to SQL Server. Total sent: 1009000
1000 rows sent to SQL Server. Total sent: 1010000
1000 rows sent to SQL Server. Total sent: 1011000
1000 rows sent to SQL Server. Total sent: 1012000
1000 rows sent to SQL Server. Total sent: 1013000
1000 rows sent to SQL Server. Total sent: 1014000
1000 rows sent to SQL Server. Total sent: 1015000
1000 rows sent to SQL Server. Total sent: 1016000
1000 rows sent to SQL Server. Total sent: 1017000
1000 rows sent to SQL Server. Total sent: 1018000
1000 rows sent to SQL Server. Total sent: 1019000
1000 rows sent to SQL Server. Total sent: 1020000
1000 rows sent to SQL Server. Total sent: 1021000
1000 rows sent to SQL Server. Total sent: 1022000
1000 rows sent to SQL Server. Total sent: 1023000
1000 rows sent to SQL Server. Total sent: 1024000
1000 rows sent to SQL Server. Total sent: 1025000
1000 rows sent to SQL Server. Total sent: 1026000
1000 rows sent to SQL Server. Total sent: 1027000
1000 rows sent to SQL Server. Total sent: 1028000
1000 rows sent to SQL Server. Total sent: 1029000
1000 rows sent to SQL Server. Total sent: 1030000
1000 rows sent to SQL Server. Total sent: 1031000
1000 rows sent to SQL Server. Total sent: 1032000
1000 rows sent to SQL Server. Total sent: 1033000
1000 rows sent to SQL Server. Total sent: 1034000
1000 rows sent to SQL Server. Total sent: 1035000
1000 rows sent to SQL Server. Total sent: 1036000
1000 rows sent to SQL Server. Total sent: 1037000
1000 rows sent to SQL Server. Total sent: 1038000
1000 rows sent to SQL Server. Total sent: 1039000
1000 rows sent to SQL Server. Total sent: 1040000
1000 rows sent to SQL Server. Total sent: 1041000
1000 rows sent to SQL Server. Total sent: 1042000
1000 rows sent to SQL Server. Total sent: 1043000
1000 rows sent to SQL Server. Total sent: 1044000
1000 rows sent to SQL Server. Total sent: 1045000
1000 rows sent to SQL Server. Total sent: 1046000
1000 rows sent to SQL Server. Total sent: 1047000
1000 rows sent to SQL Server. Total sent: 1048000

1048575 rows copied.
Network packet size (bytes): 4096
Clock Time (ms.) Total      : 85813  Average : (12219.30 rows per sec.)

C:\tmp>
```



## Screenshot to show data is copied into SQL Server table:

The screenshot shows the Microsoft SQL Server Management Studio interface. The query window displays the command `Select * from dbo.test;`. The Results pane shows a table with 30 rows and 12 columns. The status bar at the bottom indicates "Query executed successfully." and "1,048,575 rows".

	CredentialNumber	LastName	FirstName	MiddleName	CredentialType	Status	BirthYear	CEDueDate	FirstIssueDate	LastIssueDate	ExpirationDate	ActionTaken
1	HC60243358	Sangani	Vasanti	Vinud	Health Care Assistant Certification	SUPERSEDED	1969	NULL	20110927	20110927	20130927	No
2	D160054498	Summers	Kinda	Lee	Dental Assistant Registration	EXPIRED	1968	NULL	20081206	20161109	20171116	No
3	NA60113523	Singh	Wassan	NULL	Nursing Assistant Registration	EXPIRED	1984	NULL	20091008	20091008	20100826	No
4	RC60077317	Turner	India	Susanne	Counselor Registration	EXPIRED	1957	NULL	20090224	20090224	20100517	No
5	NA60052832	Castro	Brittany	Marie	Nursing Assistant Registration	EXPIRED	1990	NULL	20081110	20081110	20090413	No
6	LP00043030	Gill	Stacey	M	Licensed Practical Nurse	EXPIRED	1967	NULL	19931013	19961202	19961202	No
7	CG60773206	Porter	Melissa	Lynn	Counselor Agency Affiliated Registration	EXPIRED	1990	NULL	20170913	20180608	20190706	No
8	NC10021659	EVERETT	YOLANDA	MARIE	Nursing Assistant Certification	EXPIRED	1970	NULL	19930323	19930901	19930901	No
9	RN60503295	McGraw	Meaghan	Jolene Layla	Registered Nurse License	CLOSED	1978	NULL	NULL	NULL	NULL	No
10	CG60552906	Biggers	Barbie Jo	Marie	Counselor Agency Affiliated Registration	ACTIVE	1982	NULL	20150529	20191001	20201117	No
11	NA60666807	Rawls	Timothy	Paul	Nursing Assistant Registration	SUPERSEDED	1982	NULL	20180912	20180912	20190409	No
12	NA00104992	TERAO	ROSALIND	K	Nursing Assistant Registration	EXPIRED	1947	NULL	19980428	20010317	20010317	No
13	IR60590684	Cornwall	Mikayla	Lynn	Pharmacist Intern Registration	ACTIVE	1995	NULL	20160824	20190409	20200604	No
14	NA00192656	OLSON	JEAN	NULL	Nursing Assistant Registration	EXPIRED	1951	NULL	20070327	20100127	20110127	No
15	HC00138922	BORST	AMY	CHRISTINE	Health Care Assistant Certification	EXPIRED	1980	NULL	20021010	20041010	20041010	No
16	V860497939	McClure	Miriam	Anta	Pharmacy Assistant License	EXPIRED	1979	NULL	20140818	20140818	20150910	No
17	NA0028232	Mathew	Susha	Joseph	Nursing Assistant Registration	EXPIRED	1965	NULL	19900227	19920514	19920514	No
18	NA00042919	KLEIN	LILLIE	MAE	Nursing Assistant Registration	EXPIRED	1933	NULL	19911002	19950406	19950406	No
19	HC00008492	ECKHA...	JUDY	NULL	Health Care Assistant Certification	EXPIRED	1935	NULL	19920501	19990304	19990304	No
20	NA60691272	Barnick	Kimberly	Claire	Nursing Assistant Registration	EXPIRED	1990	NULL	20160823	20170912	20180917	No
21	MR60816051	Jennings	Alyssa	Jade	Medical Assistant Registration	ACTIVE	1997	NULL	20171201	20181227	20210216	No
22	CM60777426	MacKen...	Jackie	E	Medical Assistant Certification	ACTIVE	1983	NULL	20170809	20180112	20200131	No
23	RN00161580	Tadasee	Meseret	Asbeha	Registered Nurse License	ACTIVE	1974	20200621	20050829	20190409	20200621	No
24	CM60737078	Shirokova	Irina	V	Medical Assistant Certification	ACTIVE	1976	NULL	20170516	20190706	20210901	No
25	ES01170304	HICKAM	ELLEN	E	Emergency Medical Technician Certif...	EXPIRED	1978	NULL	20040202	20040202	20071031	No
26	N260108656	Hafield	Jason	Douglas	Registered Nurse Temporary Practice...	EXPIRED	1974	NULL	20090371	20090371	20100131	No
27	NA00001935	Kidd	Patricia	A	Nursing Assistant Registration	EXPIRED	1936	NULL	19881014	19890810	19890810	No
28	CM60362256	Hubbard	Annette	H	Medical Assistant Certification	EXPIRED	1949	NULL	20130701	20140326	20160228	No
29	N260242012	Ford	Flavia	Lynette	Registered Nurse Temporary Practice...	EXPIRED	1974	NULL	20110729	20110729	20120129	No
30	RN00019575	STALLA...	IDABELLE	MILLER	Registered Nurse License	EXPIRED	1926	NULL	19500925	19931031	19931031	No

## Screenshot of format file (bcp.fmt):

The screenshot shows a Notepad file named `bcp.fmt`. The file contains the following text:

```
12
1  SQLCHAR      0      50      "\t"      1  CredentialNumber      SQL_Latin1_General_CP1_CI_AS
2  SQLCHAR      0      50      "\t"      2  LastName               SQL_Latin1_General_CP1_CI_AS
3  SQLCHAR      0      50      "\t"      3  FirstName              SQL_Latin1_General_CP1_CI_AS
4  SQLCHAR      0      50      "\t"      4  MiddleName             SQL_Latin1_General_CP1_CI_AS
5  SQLCHAR      0      100     "\t"      5  CredentialType          SQL_Latin1_General_CP1_CI_AS
6  SQLCHAR      0      50      "\t"      6  Status                 SQL_Latin1_General_CP1_CI_AS
7  SQLCHAR      0      50      "\t"      7  BirthYear              SQL_Latin1_General_CP1_CI_AS
8  SQLCHAR      0      50      "\t"      8  CEDueDate              SQL_Latin1_General_CP1_CI_AS
9  SQLCHAR      0      50      "\t"      9  FirstIssueDate          SQL_Latin1_General_CP1_CI_AS
10 SQLCHAR      0      50      "\t"     10  LastIssueDate           SQL_Latin1_General_CP1_CI_AS
11 SQLCHAR      0      50      "\t"     11  ExpirationDate          SQL_Latin1_General_CP1_CI_AS
12 SQLCHAR      0      50      "\r\n"    12  ActionTaken             SQL_Latin1_General_CP1_CI_AS
```