

IT Assignment Coversheet

Course: PROG8080 – Database Management

Program Coordinator: David Allison

Professor/Instructor: Mark Morell

Assignment #: 3

Assignment Type: ☒ Individual ☐ Pair ☒ Team

Date Submitted: September 26th, 2019

Student Information

Name	Uploaded (for instructor)
Aparna Tomar	<input checked="" type="checkbox"/>

IT Standards Marking Sheet

Programming & SQL Standards - 1% each			
	P1 Meaningful Identifiers		P20 Code Module Size and Focus
	P2 Prefixes & Hungarian Notation		P21 Single Point of Exit
	P3 Identifier Case Conventions		P22 Disabled Code & Misleading
	P4 Header Comments		P23 Each Class in a File Named
	P5 Method Comments		P24 Class Organization
	P9 "Magic" Numbers and Strings		P25 Unwise Coding Practice
	P10 Constant Scope		SQL1 Table Names
	P11 Indentation		SQL2 Column Names
	P12 Line Length and Wrapping		SQL3 Keywords & Function Names
	P13 Blank Lines		SQL4 Header Comments
	P14 Code Crowding		SQL5 Output Messages
	P15 Space Around Binary Operators		SQL6 Implementation Comments
	P16 Space After Delimiters		SQL7 Formatting
	P17 Curly Brace Alignment		SQL8 Subquery IN and =
	P19 Global Variables		
		Late Assignments	
		Days Late	Penalty %
Base Mark:		1	5
Standards Penalties: - % -		2	10
Late Penalties: - % -		3	20
Final Mark:		4	40
		5	60
		6	80
		7	100

Ans1:

The screenshot shows the Microsoft SQL Server Management Studio interface. The query editor contains the following SQL query:

```
SELECT count(1) from Person.Person
where Title is not null
```

The query has been executed successfully, and the results pane shows a single row with the value 1009.

1	1009

The status bar at the bottom indicates the query was executed successfully on the local instance of SQL Server (14.0 RTM) using the sa user on the AdventureWorks2017 database. The execution time was 00:00:00 and it returned 1 row.

Ans2:

The screenshot shows the Microsoft SQL Server Management Studio interface. The query editor contains the following SQL query:

```
select distinct FirstName, LastName as 'name'
from Person.Person
where FirstName = 'Ken' or FirstName = 'Kenneth'
Order By LastName
```

The query has been executed successfully, and the results pane shows a list of 23 rows, each containing a first name and a last name.

	FirstName	name
1	Kenneth	Anand
2	Kenneth	Andersen
3	Kenneth	Becker
4	Kenneth	Deng
5	Kenneth	Goel
6	Kenneth	Jai
7	Kenneth	Kumar
8	Ken	Kwok
9	Kenneth	Lal
10	Kenneth	Ledyard
11	Kenneth	Luo
12	Ken	Meyer
13	Ken	Myer
14	Kenneth	Nara
15	Kenneth	Nath
16	Kenneth	Pal
17	Kenneth	Rai
18	Kenneth	Raje
19	Ken	Sánchez
20	Kenneth	She
21	Kenneth	Tang
22	Kenneth	Xie

The status bar at the bottom indicates the query was executed successfully on the local instance of SQL Server (14.0 RTM) using the sa user on the AdventureWorks2017 database. The execution time was 00:00:00 and it returned 23 rows.

Ans3

The screenshot shows the Microsoft SQL Server Management Studio interface. The query editor contains the following SQL query:

```
select AddressID, AddressLine1 + ' ' + AddressLine2 as address, city
from Person.Address
where city in ('waterloo', 'toronto', 'guelph')
and AddressLine2 is not null
```

The query has been executed successfully, and the results are displayed in the Results pane. The results show a single row with the following data:

AddressID	address	city
538	25 Danger Street West Floor 7	Toronto

The status bar at the bottom indicates that the query was executed successfully, returning 1 row.

Ans4:

The screenshot shows the Microsoft SQL Server Management Studio interface. The query editor contains the following SQL query:

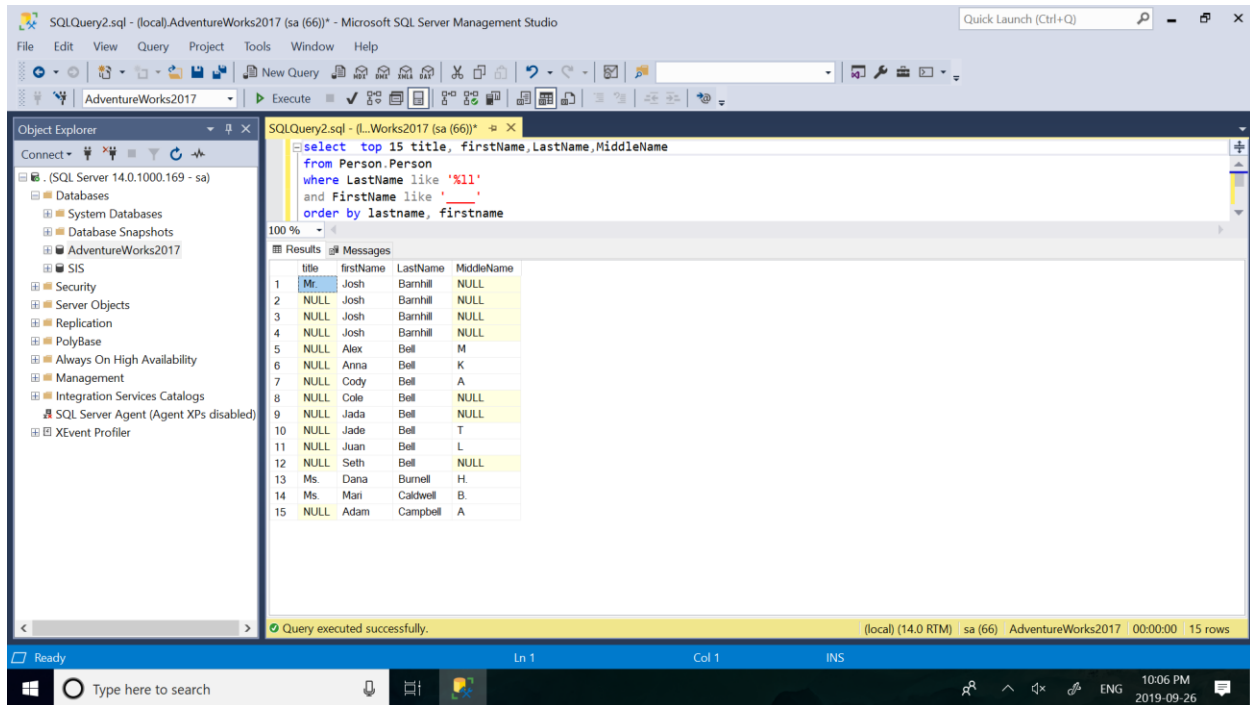
```
select AddressLine1 as address1, AddressLine2 as address2, city, PostalCode, ModifiedDate,
       -(DATEDIFF(YEAR, GETDATE(), ModifiedDate)) as lastEditedYears
from Person.Address
where city = 'Ottawa'
order by PostalCode
```

The query has been executed successfully, and the results are displayed in the Results pane. The results show 7 rows of data, ordered by PostalCode:

address1	address2	city	PostalCode	ModifiedDate	lastEditedYears
955 Green Valley Crescent	NULL	Ottawa	K4B 1S1	2013-07-31 00:00:00.000	6
9984 Wellington Street	NULL	Ottawa	K4B 1S2	2012-06-30 00:00:00.000	7
#500-75 O'Connor Street	NULL	Ottawa	K4B 1S2	2011-10-31 00:00:00.000	8
600 Slater Street	NULL	Ottawa	K4B 1S2	2011-05-31 00:00:00.000	8
6030 Conroy Road	NULL	Ottawa	K4B 1S3	2012-07-31 00:00:00.000	7
9100 Sheppard Avenue North	NULL	Ottawa	K4B 1T7	2011-05-24 00:00:00.000	8
Suite 800 2530 Slater Street	NULL	Ottawa	K4B 1T7	2012-07-31 00:00:00.000	7

The status bar at the bottom indicates that the query was executed successfully, returning 7 rows.

Ans5:



SQLQuery2.sql - (local).AdventureWorks2017 (sa (66)) - Microsoft SQL Server Management Studio

File Edit View Query Project Tools Window Help

AdventureWorks2017

Object Explorer

Connect +

(SQL Server 14.0.1000.169 - sa)

Databases

System Databases

Database Snapshots

AdventureWorks2017

SIS

Security

Server Objects

Replication

PolyBase

Always On High Availability

Management

Integration Services Catalogs

SQL Server Agent (Agent XPs disabled)

XEvent Profiler

SQLQuery2.sql - (local).AdventureWorks2017 (sa (66))

```
select top 15 title, firstName, LastName, MiddleName
from Person.Person
where LastName like '%ll'
and FirstName like 'A%'
order by lastname, firstname
```

100 %

Results Messages

	title	firstName	LastName	MiddleName
1	Mr.	Josh	Barnhill	NULL
2	NULL	Josh	Barnhill	NULL
3	NULL	Josh	Barnhill	NULL
4	NULL	Josh	Barnhill	NULL
5	NULL	Alex	Bell	M
6	NULL	Anna	Bell	K
7	NULL	Cody	Bell	A
8	NULL	Cole	Bell	NULL
9	NULL	Jada	Bell	NULL
10	NULL	Jade	Bell	T
11	NULL	Juan	Bell	L
12	NULL	Seth	Bell	NULL
13	Ms.	Dana	Burnell	H.
14	Ms.	Mari	Caldwell	B.
15	NULL	Adam	Campbell	A

Query executed successfully.

(local) (14.0 RTM) sa (66) AdventureWorks2017 00:00:00 15 rows

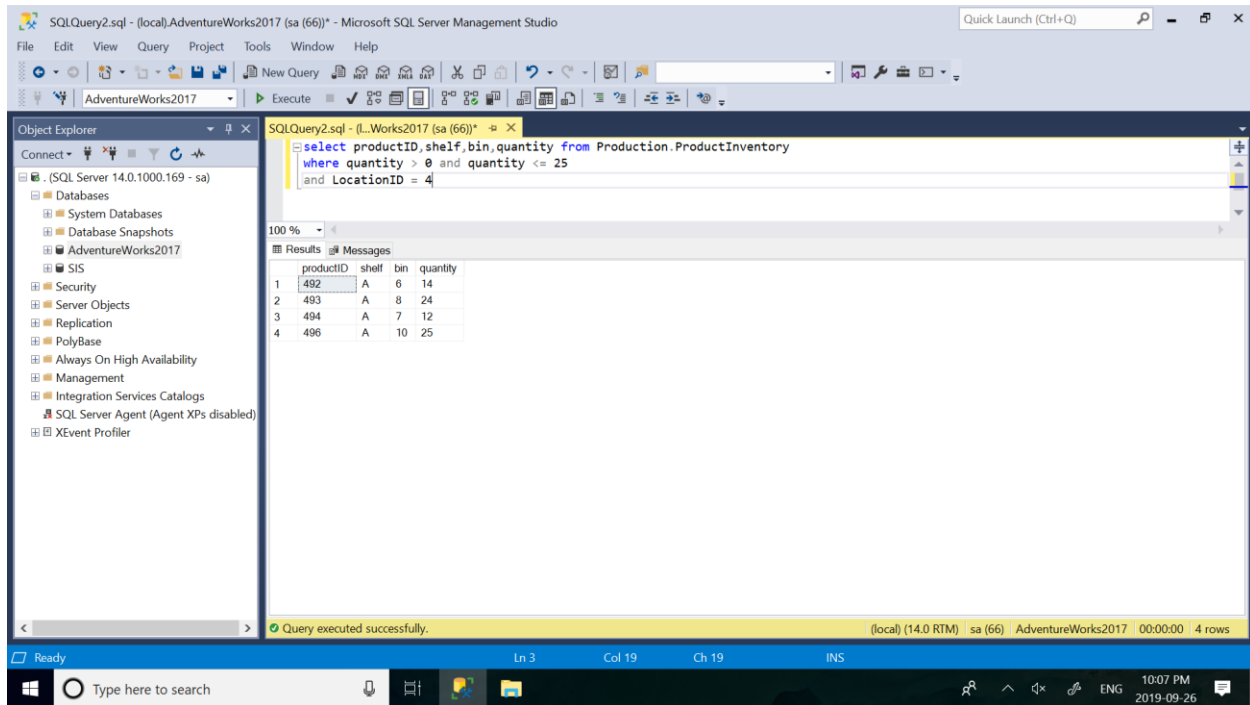
Ready

Type here to search

Ln 1 Col 1 INS

10:06 PM 2019-09-26

Ans6:



SQLQuery2.sql - (local).AdventureWorks2017 (sa (66)) - Microsoft SQL Server Management Studio

File Edit View Query Project Tools Window Help

AdventureWorks2017

Object Explorer

Connect +

(SQL Server 14.0.1000.169 - sa)

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SQLQuery2.sql - (local).AdventureWorks2017 (sa (66))

```
select productID, shelf, bin, quantity from Production.ProductInventory
where quantity > 0 and quantity <= 25
and LocationID = 4
```

100 %

Results Messages

	productID	shelf	bin	quantity
1	492	A	6	14
2	493	A	8	24
3	494	A	7	12
4	496	A	10	25

Query executed successfully.

(local) (14.0 RTM) sa (66) AdventureWorks2017 00:00:00 4 rows

Ready

Type here to search

Ln 3 Col 19 Ch 19 INS

10:07 PM 2019-09-26

Ans7:

The screenshot displays the Microsoft SQL Server Management Studio interface. The title bar indicates the connection to 'AdventureWorks2017' on the local machine. The 'Object Explorer' on the left shows the database structure, including 'AdventureWorks2017'. The central query editor contains the following SQL query:

```
from Production.ProductInventory proin
inner join Production.Product pro on proin.ProductID = pro.ProductID
where proin.quantity > 0 and proin.quantity <= 25
and proin.LocationID = 4
order by proin.Quantity,pro.ProductNumber
```

The 'Results' pane at the bottom shows the output of the query, which consists of 4 rows. The columns are ProductNumber, DaysToManufacture, Color, shelf, bin, and quantity. The status bar at the bottom indicates that the query was executed successfully, returning 4 rows in 00:00:00.

	ProductNumber	DaysToManufacture	Color	shelf	bin	quantity
1	PA-529S	0	NULL	A	7	12
2	PA-187B	0	NULL	A	6	14
3	PA-361R	0	NULL	A	8	24
4	PA-823Y	0	NULL	A	10	25