abdulrab2101 /
CAP2761-Asssignments

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CAP2761-Asssignments / **Assignment_14.ipynb** ⧉

abdulrab2101 Assignment Complete   6d29ee7 · 1 minute ago

15326 lines (15326 loc) · 888 KB

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Question 1: Current Date and Time

Query:

```
SELECT GETDATE() AS CurrentDateTime;
```

I READ THIS PART: YES

Question 2: Convert between Time Zones (SWITCHOFFSET)

Query:

```
SELECT SWITCHOFFSET(SYSDATETIMEOFFSET(), '-05:00') AS
CurrentTimeEastern;
```

I READ THIS PART: YES

Question 3: Convert Date/Time Value to Datetimeoffset Value (TODATETIMEOFFSET)

Query:

```
SELECT TODATETIMEOFFSET(GETDATE(), '-05:00') AS
DateTimeOffsetValue;
```

I READ THIS PART: YES

Question 4: Incrementing or Decrementing a Date's Value

Query:

```
SELECT DATEADD(YEAR, -1, '2009-04-02T00:00:00') AS NewDate;
```

Explanation:

The `DATEADD` function is used to add or subtract a specified time interval from a date. The function has three parameters:

1. **datepart**: The part of the date to add or subtract (e.g., YEAR, MONTH, DAY).
2. **number**: The number of dateparts to add (positive number) or subtract (negative number).
3. **date**: The date to which the addition or subtraction is applied.

The query `SELECT DATEADD(YEAR, -1, '2009-04-02T00:00:00')` subtracts one year from the date '2009-04-02T00:00:00', resulting in '2008-04-02T00:00:00'.

Question 5: Find the Difference between Two Dates

Explanation:

The `DATEDIFF` function is used to find the difference between two dates. It returns the count of specified datepart boundaries crossed between the specified start date and end date.

Example:

```
SELECT DATEDIFF(DAY, '2023-01-01', '2023-01-31') AS
DifferenceInDays;
```

Question 6: Find the Elapsed Time between Two Dates

Query:

```
SELECT DATEDIFF(SECOND, '2023-01-01 00:00:00', '2023-01-01
01:00:00') AS ElapsedSeconds;
```

I READ THIS PART: YES

Question 7a: Displaying the String Value for Part of a Date

In [1]:
```
SELECT DISTINCT
    OrderDate,
    DATENAME(MONTH, OrderDate) AS MonthName,
    DATENAME(WEEKDAY, OrderDate) AS WeekdayName
FROM Sales.SalesOrderHeader
ORDER BY OrderDate;
```

(1124 rows affected)
Total execution time: 00:00:00.107

Out[1]:

OrderDate	MonthName	WeekdayName
2011-05-31 00:00:00.000	May	Tuesday
2011-06-01 00:00:00.000	June	Wednesday
2011-06-02 00:00:00.000	June	Thursday
2011-06-03 00:00:00.000	June	Friday
2011-06-04 00:00:00.000	June	Saturday
2011-06-05 00:00:00.000	June	Sunday
2011-06-06 00:00:00.000	June	Monday
2011-06-07 00:00:00.000	June	Tuesday
2011-06-08 00:00:00.000	June	Wednesday
2011-06-09 00:00:00.000	June	Thursday
2011-06-10 00:00:00.000	June	Friday
2011-06-11 00:00:00.000	June	Saturday
2011-06-12 00:00:00.000	June	Sunday
2011-06-13 00:00:00.000	June	Monday

2011-06-13 00:00:00.000	June	Monday
2011-06-14 00:00:00.000	June	Tuesday
2011-06-15 00:00:00.000	June	Wednesday
2011-06-16 00:00:00.000	June	Thursday
2011-06-17 00:00:00.000	June	Friday
2011-06-18 00:00:00.000	June	Saturday
2011-06-19 00:00:00.000	June	Sunday
2011-06-20 00:00:00.000	June	Monday
2011-06-21 00:00:00.000	June	Tuesday
2011-06-22 00:00:00.000	June	Wednesday
2011-06-23 00:00:00.000	June	Thursday
2011-06-24 00:00:00.000	June	Friday
2011-06-25 00:00:00.000	June	Saturday
2011-06-26 00:00:00.000	June	Sunday
2011-06-27 00:00:00.000	June	Monday
2011-06-28 00:00:00.000	June	Tuesday
2011-06-29 00:00:00.000	June	Wednesday
2011-06-30 00:00:00.000	June	Thursday
2011-07-01 00:00:00.000	July	Friday
2011-07-02 00:00:00.000	July	Saturday
2011-07-03 00:00:00.000	July	Sunday
2011-07-04 00:00:00.000	July	Monday
2011-07-05 00:00:00.000	July	Tuesday
2011-07-06 00:00:00.000	July	Wednesday
2011-07-07 00:00:00.000	July	Thursday
2011-07-08 00:00:00.000	July	Friday
2011-07-09 00:00:00.000	July	Saturday
2011-07-10 00:00:00.000	July	Sunday
2011-07-11 00:00:00.000	July	Monday
2011-07-12 00:00:00.000	July	Tuesday
2011-07-13 00:00:00.000	July	Wednesday
2011-07-14 00:00:00.000	July	Thursday
2011-07-15 00:00:00.000	July	Friday
2011-07-17 00:00:00.000	July	Sunday
2011-07-18 00:00:00.000	July	Monday
2011-07-19 00:00:00.000	July	Tuesday
2011-07-20 00:00:00.000	July	Wednesday

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2011-07-23 00:00:00.000	July	Saturday
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2011-07-26 00:00:00.000	July	Tuesday
2011-07-27 00:00:00.000	July	Wednesday
2011-07-28 00:00:00.000	July	Thursday
2011-07-29 00:00:00.000	July	Friday
2011-07-30 00:00:00.000	July	Saturday
2011-07-31 00:00:00.000	July	Sunday
2011-08-01 00:00:00.000	August	Monday
2011-08-02 00:00:00.000	August	Tuesday
2011-08-03 00:00:00.000	August	Wednesday
2011-08-04 00:00:00.000	August	Thursday
2011-08-05 00:00:00.000	August	Friday
2011-08-06 00:00:00.000	August	Saturday
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2011-08-12 00:00:00.000	August	Friday
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2011-08-14 00:00:00.000	August	Sunday
2011-08-15 00:00:00.000	August	Monday
2011-08-16 00:00:00.000	August	Tuesday
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2011-08-20 00:00:00.000	August	Saturday
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2011-08-30 00:00:00.000	August	Tuesday
2011-08-31 00:00:00.000	August	Wednesday
2011-09-01 00:00:00.000	September	Thursday
2011-09-02 00:00:00.000	September	Friday
2011-09-03 00:00:00.000	September	Saturday
2011-09-04 00:00:00.000	September	Sunday
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2013-04-02 00:00:00.000	April	Tuesday
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2013-10-06 00:00:00.000	October	Sunday
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2013-10-08 00:00:00.000	October	Tuesday
2013-10-09 00:00:00.000	October	Wednesday
2013-10-10 00:00:00.000	October	Thursday
2013-10-11 00:00:00.000	October	Friday
2013-10-12 00:00:00.000	October	Saturday
2013-10-13 00:00:00.000	October	Sunday
2013-10-14 00:00:00.000	October	Monday
2013-10-15 00:00:00.000	October	Tuesday
2013-10-16 00:00:00.000	October	Wednesday
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2013-10-28 00:00:00.000	October	Monday
2013-10-29 00:00:00.000	October	Tuesday
2013-10-30 00:00:00.000	October	Wednesday
2013-10-31 00:00:00.000	October	Thursday
2013-11-01 00:00:00.000	November	Friday
2013-11-02 00:00:00.000	November	Saturday
2013-11-03 00:00:00.000	Novermber	Sunday
2013-11-04 00:00:00.000	November	Monday
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2014-01-15 00:00:00.000	January	Wednesday
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2014-01-18 00:00:00.000	January	Saturday
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2014-01-20 00:00:00.000	January	Monday
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2014-01-30 00:00:00.000	January	Thursday
2014-01-31 00:00:00.000	January	Friday
2014-02-01 00:00:00.000	February	Saturday
2014-02-02 00:00:00.000	February	Sunday
2014-02-03 00:00:00.000	February	Monday
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2014-02-22 00:00:00.000	February	Saturday

2014-02-23 00:00:00.000	February	Sunday
2014-02-24 00:00:00.000	February	Monday
2014-02-25 00:00:00.000	February	Tuesday
2014-02-26 00:00:00.000	February	Wednesday
2014-02-27 00:00:00.000	February	Thursday
2014-02-28 00:00:00.000	February	Friday
2014-03-01 00:00:00.000	March	Saturday
2014-03-02 00:00:00.000	March	Sunday
2014-03-03 00:00:00.000	March	Monday
2014-03-04 00:00:00.000	March	Tuesday
2014-03-05 00:00:00.000	March	Wednesday
2014-03-06 00:00:00.000	March	Thursday
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2014-03-14 00:00:00.000	March	Friday
2014-03-15 00:00:00.000	March	Saturday
2014-03-16 00:00:00.000	March	Sunday
2014-03-17 00:00:00.000	March	Monday
2014-03-18 00:00:00.000	March	Tuesday
2014-03-19 00:00:00.000	March	Wednesday
2014-03-20 00:00:00.000	March	Thursday
2014-03-21 00:00:00.000	March	Friday
2014-03-22 00:00:00.000	March	Saturday
2014-03-23 00:00:00.000	March	Sunday
2014-03-24 00:00:00.000	March	Monday
2014-03-25 00:00:00.000	March	Tuesday
2014-03-26 00:00:00.000	March	Wednesday
2014-03-27 00:00:00.000	March	Thursday
2014-03-28 00:00:00.000	March	Friday
2014-03-29 00:00:00.000	March	Saturday
2014-03-30 00:00:00.000	March	Sunday
2014-03-31 00:00:00.000	March	Monday

2014-04-01 00:00:00.000	April	Tuesday
2014-04-02 00:00:00.000	April	Wednesday
2014-04-03 00:00:00.000	April	Thursday
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2014-04-06 00:00:00.000	April	Sunday
2014-04-07 00:00:00.000	April	Monday
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2014-04-19 00:00:00.000	April	Saturday
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2014-04-21 00:00:00.000	April	Monday
2014-04-22 00:00:00.000	April	Tuesday
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2014-04-24 00:00:00.000	April	Thursday
2014-04-25 00:00:00.000	April	Friday
2014-04-26 00:00:00.000	April	Saturday
2014-04-27 00:00:00.000	April	Sunday
2014-04-28 00:00:00.000	April	Monday
2014-04-29 00:00:00.000	April	Tuesday
2014-04-30 00:00:00.000	April	Wednesday
2014-05-01 00:00:00.000	May	Thursday
2014-05-02 00:00:00.000	May	Friday
2014-05-03 00:00:00.000	May	Saturday
2014-05-04 00:00:00.000	May	Sunday
2014-05-05 00:00:00.000	May	Monday
2014-05-06 00:00:00.000	May	Tuesday

2014-05-07 00:00:00.000	May	Wednesday
2014-05-08 00:00:00.000	May	Thursday
2014-05-09 00:00:00.000	May	Friday
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2014-05-14 00:00:00.000	May	Wednesday
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2014-05-16 00:00:00.000	May	Friday
2014-05-17 00:00:00.000	May	Saturday
2014-05-18 00:00:00.000	May	Sunday
2014-05-19 00:00:00.000	May	Monday
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2014-05-23 00:00:00.000	May	Friday
2014-05-24 00:00:00.000	May	Saturday
2014-05-25 00:00:00.000	May	Sunday
2014-05-26 00:00:00.000	May	Monday
2014-05-27 00:00:00.000	May	Tuesday
2014-05-28 00:00:00.000	May	Wednesday
2014-05-29 00:00:00.000	May	Thursday
2014-05-30 00:00:00.000	May	Friday
2014-05-31 00:00:00.000	May	Saturday
2014-06-01 00:00:00.000	June	Sunday
2014-06-02 00:00:00.000	June	Monday
2014-06-03 00:00:00.000	June	Tuesday
2014-06-04 00:00:00.000	June	Wednesday
2014-06-05 00:00:00.000	June	Thursday
2014-06-06 00:00:00.000	June	Friday
2014-06-07 00:00:00.000	June	Saturday
2014-06-08 00:00:00.000	June	Sunday
2014-06-09 00:00:00.000	June	Monday
2014-06-10 00:00:00.000	June	Tuesday
2014-06-11 00:00:00.000	June	Wednesday
2014-06-12 00:00:00.000	June	Thursday

	June	Thursday
2014-06-13 00:00:00.000	June	Friday
2014-06-14 00:00:00.000	June	Saturday
2014-06-15 00:00:00.000	June	Sunday
2014-06-16 00:00:00.000	June	Monday
2014-06-17 00:00:00.000	June	Tuesday
2014-06-18 00:00:00.000	June	Wednesday
2014-06-19 00:00:00.000	June	Thursday
2014-06-20 00:00:00.000	June	Friday
2014-06-21 00:00:00.000	June	Saturday
2014-06-22 00:00:00.000	June	Sunday
2014-06-23 00:00:00.000	June	Monday
2014-06-24 00:00:00.000	June	Tuesday
2014-06-25 00:00:00.000	June	Wednesday
2014-06-26 00:00:00.000	June	Thursday
2014-06-27 00:00:00.000	June	Friday
2014-06-28 00:00:00.000	June	Saturday
2014-06-29 00:00:00.000	June	Sunday
2014-06-30 00:00:00.000	June	Monday

Question 7b: Integer Representations for Parts of a Date

In [2]:
```
SELECT DISTINCT
    OrderDate,
    DATEPART(YEAR, OrderDate) AS YearPart,
    DATEPART(MONTH, OrderDate) AS MonthPart,
    DATEPART(DAY, OrderDate) AS DayPart
FROM Sales.SalesOrderHeader
ORDER BY OrderDate;
```

(1124 rows affected)
Total execution time: 00:00:00.329

Out[2]:

OrderDate	YearPart	MonthPart	DayPart
2011-05-31 00:00:00.000	2011	5	31
2011-06-01 00:00:00.000	2011	6	1
2011-06-02 00:00:00.000	2011	6	2
2011-06-03 00:00:00.000	2011	6	3
2011-06-04 00:00:00.000	2011	6	4
2011-06-05 00:00:00.000	2011	6	5
2011-06-06 00:00:00.000	2011	6	6
2011-06-07 00:00:00.000	2011	6	7

2011-06-08 00:00:00.000	2011	6	8
2011-06-09 00:00:00.000	2011	6	9
2011-06-10 00:00:00.000	2011	6	10
2011-06-11 00:00:00.000	2011	6	11
2011-06-12 00:00:00.000	2011	6	12
2011-06-13 00:00:00.000	2011	6	13
2011-06-14 00:00:00.000	2011	6	14
2011-06-15 00:00:00.000	2011	6	15
2011-06-16 00:00:00.000	2011	6	16
2011-06-17 00:00:00.000	2011	6	17
2011-06-18 00:00:00.000	2011	6	18
2011-06-19 00:00:00.000	2011	6	19
2011-06-20 00:00:00.000	2011	6	20
2011-06-21 00:00:00.000	2011	6	21
2011-06-22 00:00:00.000	2011	6	22
2011-06-23 00:00:00.000	2011	6	23
2011-06-24 00:00:00.000	2011	6	24
2011-06-25 00:00:00.000	2011	6	25
2011-06-26 00:00:00.000	2011	6	26
2011-06-27 00:00:00.000	2011	6	27
2011-06-28 00:00:00.000	2011	6	28
2011-06-29 00:00:00.000	2011	6	29
2011-06-30 00:00:00.000	2011	6	30
2011-07-01 00:00:00.000	2011	7	1
2011-07-02 00:00:00.000	2011	7	2
2011-07-03 00:00:00.000	2011	7	3
2011-07-04 00:00:00.000	2011	7	4
2011-07-05 00:00:00.000	2011	7	5
2011-07-06 00:00:00.000	2011	7	6
2011-07-07 00:00:00.000	2011	7	7
2011-07-08 00:00:00.000	2011	7	8
2011-07-09 00:00:00.000	2011	7	9
2011-07-10 00:00:00.000	2011	7	10
2011-07-11 00:00:00.000	2011	7	11
2011-07-12 00:00:00.000	2011	7	12
2011-07-13 00:00:00.000	2011	7	13
2011-07-14 00:00:00.000	2011	7	14

2011-07-15 00:00:00.000	2011	7	15
2011-07-17 00:00:00.000	2011	7	17
2011-07-18 00:00:00.000	2011	7	18
2011-07-19 00:00:00.000	2011	7	19
2011-07-20 00:00:00.000	2011	7	20
2011-07-21 00:00:00.000	2011	7	21
2011-07-22 00:00:00.000	2011	7	22
2011-07-23 00:00:00.000	2011	7	23
2011-07-24 00:00:00.000	2011	7	24
2011-07-25 00:00:00.000	2011	7	25
2011-07-26 00:00:00.000	2011	7	26
2011-07-27 00:00:00.000	2011	7	27
2011-07-28 00:00:00.000	2011	7	28
2011-07-29 00:00:00.000	2011	7	29
2011-07-30 00:00:00.000	2011	7	30
2011-07-31 00:00:00.000	2011	7	31
2011-08-01 00:00:00.000	2011	8	1
2011-08-02 00:00:00.000	2011	8	2
2011-08-03 00:00:00.000	2011	8	3
2011-08-04 00:00:00.000	2011	8	4
2011-08-05 00:00:00.000	2011	8	5
2011-08-06 00:00:00.000	2011	8	6
2011-08-07 00:00:00.000	2011	8	7
2011-08-08 00:00:00.000	2011	8	8
2011-08-09 00:00:00.000	2011	8	9
2011-08-10 00:00:00.000	2011	8	10
2011-08-12 00:00:00.000	2011	8	12
2011-08-13 00:00:00.000	2011	8	13
2011-08-14 00:00:00.000	2011	8	14
2011-08-15 00:00:00.000	2011	8	15
2011-08-16 00:00:00.000	2011	8	16
2011-08-17 00:00:00.000	2011	8	17
2011-08-18 00:00:00.000	2011	8	18
2011-08-19 00:00:00.000	2011	8	19
2011-08-20 00:00:00.000	2011	8	20
2011-08-21 00:00:00.000	2011	8	21

2011-08-22 00:00:00.000	2011	8	22
2011-08-23 00:00:00.000	2011	8	23
2011-08-24 00:00:00.000	2011	8	24
2011-08-25 00:00:00.000	2011	8	25
2011-08-26 00:00:00.000	2011	8	26
2011-08-27 00:00:00.000	2011	8	27
2011-08-28 00:00:00.000	2011	8	28
2011-08-29 00:00:00.000	2011	8	29
2011-08-30 00:00:00.000	2011	8	30
2011-08-31 00:00:00.000	2011	8	31
2011-09-01 00:00:00.000	2011	9	1
2011-09-02 00:00:00.000	2011	9	2
2011-09-03 00:00:00.000	2011	9	3
2011-09-04 00:00:00.000	2011	9	4
2011-09-05 00:00:00.000	2011	9	5
2011-09-06 00:00:00.000	2011	9	6
2011-09-07 00:00:00.000	2011	9	7
2011-09-08 00:00:00.000	2011	9	8
2011-09-09 00:00:00.000	2011	9	9
2011-09-10 00:00:00.000	2011	9	10
2011-09-11 00:00:00.000	2011	9	11
2011-09-12 00:00:00.000	2011	9	12
2011-09-13 00:00:00.000	2011	9	13
2011-09-14 00:00:00.000	2011	9	14
2011-09-15 00:00:00.000	2011	9	15
2011-09-16 00:00:00.000	2011	9	16
2011-09-17 00:00:00.000	2011	9	17
2011-09-18 00:00:00.000	2011	9	18
2011-09-19 00:00:00.000	2011	9	19
2011-09-20 00:00:00.000	2011	9	20
2011-09-21 00:00:00.000	2011	9	21
2011-09-22 00:00:00.000	2011	9	22
2011-09-24 00:00:00.000	2011	9	24
2011-09-25 00:00:00.000	2011	9	25
2011-09-26 00:00:00.000	2011	9	26
2011-09-27 00:00:00.000	2011	9	27
2011-09-28 00:00:00.000	2011	9	28

2011-09-28 00:00:00.000	2011	9	28
2011-09-29 00:00:00.000	2011	9	29
2011-09-30 00:00:00.000	2011	9	30
2011-10-01 00:00:00.000	2011	10	1
2011-10-02 00:00:00.000	2011	10	2
2011-10-03 00:00:00.000	2011	10	3
2011-10-04 00:00:00.000	2011	10	4
2011-10-05 00:00:00.000	2011	10	5
2011-10-06 00:00:00.000	2011	10	6
2011-10-07 00:00:00.000	2011	10	7
2011-10-08 00:00:00.000	2011	10	8
2011-10-09 00:00:00.000	2011	10	9
2011-10-10 00:00:00.000	2011	10	10
2011-10-11 00:00:00.000	2011	10	11
2011-10-12 00:00:00.000	2011	10	12
2011-10-13 00:00:00.000	2011	10	13
2011-10-14 00:00:00.000	2011	10	14
2011-10-15 00:00:00.000	2011	10	15
2011-10-16 00:00:00.000	2011	10	16
2011-10-17 00:00:00.000	2011	10	17
2011-10-18 00:00:00.000	2011	10	18
2011-10-19 00:00:00.000	2011	10	19
2011-10-20 00:00:00.000	2011	10	20
2011-10-21 00:00:00.000	2011	10	21
2011-10-22 00:00:00.000	2011	10	22
2011-10-23 00:00:00.000	2011	10	23
2011-10-24 00:00:00.000	2011	10	24
2011-10-25 00:00:00.000	2011	10	25
2011-10-26 00:00:00.000	2011	10	26
2011-10-27 00:00:00.000	2011	10	27
2011-10-28 00:00:00.000	2011	10	28
2011-10-29 00:00:00.000	2011	10	29
2011-10-30 00:00:00.000	2011	10	30
2011-10-31 00:00:00.000	2011	10	31
2011-11-01 00:00:00.000	2011	11	1
2011-11-02 00:00:00.000	2011	11	2
2011-11-03 00:00:00.000	2011	11	3

2011-11-04 00:00:00.000	2011	11	4
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2014-01-25 00:00:00.000	2014	1	25
2014-01-26 00:00:00.000	2014	1	26
2014-01-27 00:00:00.000	2014	1	27
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2014-02-03 00:00:00.000	2014	2	3
2014-02-04 00:00:00.000	2014	2	4
2014-02-05 00:00:00.000	2014	2	5
2014-02-06 00:00:00.000	2014	2	6
2014-02-07 00:00:00.000	2014	2	7
2014-02-08 00:00:00.000	2014	2	8
2014-02-09 00:00:00.000	2014	2	9
2014-02-10 00:00:00.000	2014	2	10
2014-02-11 00:00:00.000	2014	2	11
2014-02-12 00:00:00.000	2014	2	12
2014-02-13 00:00:00.000	2014	2	13
2014-02-14 00:00:00.000	2014	2	14
2014-02-15 00:00:00.000	2014	2	15
2014-02-16 00:00:00.000	2014	2	16
2014-02-17 00:00:00.000	2014	2	17

2014-02-18 00:00:00.000	2014	2	18
2014-02-19 00:00:00.000	2014	2	19
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2014-03-02 00:00:00.000	2014	3	2
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2014-03-12 00:00:00.000	2014	3	12
2014-03-13 00:00:00.000	2014	3	13
2014-03-14 00:00:00.000	2014	3	14
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2014-03-23 00:00:00.000	2014	3	23
2014-03-24 00:00:00.000	2014	3	24
2014-03-25 00:00:00.000	2014	3	25
2014-03-26 00:00:00.000	2014	3	26

2014-03-26 00:00:00.000	2014	3	26
2014-03-27 00:00:00.000	2014	3	27
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2014-03-31 00:00:00.000	2014	3	31
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2014-04-04 00:00:00.000	2014	4	4
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2014-04-06 00:00:00.000	2014	4	6
2014-04-07 00:00:00.000	2014	4	7
2014-04-08 00:00:00.000	2014	4	8
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2014-04-16 00:00:00.000	2014	4	16
2014-04-17 00:00:00.000	2014	4	17
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2014-04-20 00:00:00.000	2014	4	20
2014-04-21 00:00:00.000	2014	4	21
2014-04-22 00:00:00.000	2014	4	22
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2014-04-24 00:00:00.000	2014	4	24
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2014-04-26 00:00:00.000	2014	4	26
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2014-04-28 00:00:00.000	2014	4	28
2014-04-29 00:00:00.000	2014	4	29
2014-04-30 00:00:00.000	2014	4	30
2014-05-01 00:00:00.000	2014	5	1

2014-05-02 00:00:00.000	2014	5	2
2014-05-03 00:00:00.000	2014	5	3
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2014-05-05 00:00:00.000	2014	5	5
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2014-05-12 00:00:00.000	2014	5	12
2014-05-13 00:00:00.000	2014	5	13
2014-05-14 00:00:00.000	2014	5	14
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2014-06-27 00:00:00.000	2014	6	27
2014-06-28 00:00:00.000	2014	6	28
2014-06-29 00:00:00.000	2014	6	29
2014-06-30 00:00:00.000	2014	6	30

Question 8a: Determine if a String is a Valid Date

Explanation:

The `ISDATE` function checks to see whether the expression passed to it is a valid date, time, or datetime value.

Example:

```
SELECT ISDATE('2023-01-01') AS IsValidDate;
```

Question 8b: Determining the Last Day of the Month

Explanation:

The `EOMONTH` function returns the last day of the month for the specified date.

Example:

```
SELECT EOMONTH('2023-01-01') AS LastDayOfMonth;
```

Question 9: Creating a Date from Numbers

In [3]:
```
SELECT 'DateFromParts' AS ConversionType, DATEFROMPARTS(2012, 8, 15) AS [Value];
SELECT 'TimeFromParts' AS ConversionType, TIMEFROMPARTS(18, 25, 32, 5, 1) AS [Va
SELECT 'SmallDateTimeFromParts' AS ConversionType, SMALLDATETIMEFROMPARTS(2012, 8
SELECT 'DateTimeFromParts' AS ConversionType, DATETIMEFROMPARTS(2012, 8, 15, 18,
SELECT 'DateTime2FromParts' AS ConversionType, DATETIME2FROMPARTS(2012, 8, 15, 18
SELECT 'DateTimeOffsetFromParts' AS ConversionType, DATETIMEOFFSETFROMPARTS(2012
```

(1 row affected)

(1 row affected)

(1 row affected)

(1 row affected)

(1 row affected)

(1 row affected)

Total execution time: 00:00:00.516

Out[3]:
ConversionType	Value
DateFromParts	2012-08-15

Out[3]:
ConversionType	Value
TimeFromParts	18:25:32.5000000

Out[3]:
ConversionType	Value
SmallDateTimeFromParts	2012-08-15 18:25:00

Out[3]:
ConversionType	Value
DateTimeFromParts	2012-08-15 18:25:32.450

Out[3]:
ConversionType	Value
DateTime2FromParts	2012-08-15 18:25:32.0000005

Out[3]:
ConversionType	Value
DateTimeOffsetFromParts	2012-08-15 18:25:32.0000005 +04:00

Question 10: Include Missing Dates

In [4]:
```
DECLARE @Base DATETIME = '1900-01-01T00:00:00';
WITH cteExpenses AS (
    SELECT
        ca.FirstOfMonth,
        SUM(ExpenseAmount) AS MonthlyExpenses
    FROM (VALUES
        ('2012-01-15T00:00:00', 1250.00),
        ('2012-01-28T00:00:00', 750.00),
        ('2012-03-01T00:00:00', 1475.00),
        ('2012-03-23T00:00:00', 2285.00),
        ('2012-04-01T00:00:00', 1650.00),
        ('2012-04-22T00:00:00', 1452.00),
        ('2012-06-15T00:00:00', 1875.00)
```

```
        ('2012-07-23T00:00:00', 2125.00)
    ) dt (ExpenseDate, ExpenseAmount)
    CROSS APPLY (SELECT DATEADD(MONTH, DATEDIFF(MONTH, @Base, ExpenseDate), @Base
    GROUP BY ca.FirstOfMonth
), cteMonths AS (
    SELECT DATEFROMPARTS(2012, M, 1) AS FirstOfMonth
    FROM (VALUES
        (1), (2), (3), (4),
        (5), (6), (7), (8),
        (9), (10), (11), (12)
    ) Months (M)
)
SELECT
    CAST(FirstOfMonth AS DATE) AS FirstOfMonth,
    MonthlyExpenses
FROM cteExpenses
UNION ALL
SELECT
    m.FirstOfMonth,
    0
FROM cteMonths M
LEFT JOIN cteExpenses e ON M.FirstOfMonth = e.FirstOfMonth
WHERE e.FirstOfMonth IS NULL
ORDER BY FirstOfMonth;
```

(12 rows affected)

Total execution time: 00:00:00.956

Out[4]:

FirstOfMonth	MonthlyExpenses
2012-01-01	2000.00
2012-02-01	0.00
2012-03-01	3760.00
2012-04-01	3102.00
2012-05-01	0.00
2012-06-01	1875.00
2012-07-01	2125.00
2012-08-01	0.00
2012-09-01	0.00
2012-10-01	0.00
2012-11-01	0.00
2012-12-01	0.00

I READ THIS PART: YES