



Mission100 Azure Data Engineer Course By Deepak Goyal

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Azure Data Factory Function Cheat Sheet

| Function Name | Description | Example | Result |
|--|---|---|------------------------|
| Date Functions | | | |
| <u>addDays</u> | Add a number of days to a timestamp. | @addDays('2023-03-20T00:00:00Z', 2) | "2023-03-22T00:00:00Z" |
| <u>addHours</u> | Add a number of hours to a timestamp. | @addHours('2023-03-20T00:00:00Z', 3) | "2023-03-20T03:00:00Z" |
| <u>addMinutes</u> | Add a number of minutes to a timestamp. | @addMinutes('2023-03-20T00:00:00Z', 30) | "2023-03-20T00:30:00Z" |
| <u>addSeconds</u> | Add a number of seconds to a timestamp. | @addSeconds('2023-03-20T00:00:00Z', 45) | "2023-03-20T00:00:45Z" |
| <u>addToTime</u> | <u>Add a number of time units to a timestamp. See also getFutureTime.</u> | @addToTime('2023-03-20T00:00:00Z', 1, 'day') | "2023-03-21T00:00:00Z" |
| <u>convertFromUtc</u> | Convert a timestamp from Universal Time Coordinated (UTC) to the target time zone. | @convertFromUtc('2023-03-20T12:00:00Z', 'Pacific Standard Time') | "2023-03-20T05:00:00" |
| <u>convertTimeZone</u> | Convert a timestamp from the source time | @convertTimeZone('2023-03-20T12:00:00', 'UTC', 'Pacific Standard Time') | "2023-03-20T04:00:00" |

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| | zone to the target time zone. | | |
| <u>convertToUtc</u> | Convert a timestamp from the source time zone to Universal Time Coordinated (UTC). | @convertToUtc('2023-03-20T12:00:00', 'Pacific Standard Time') | "2023-03-20T19:00:00Z" |
| <u>dayOfMonth</u> | Return the day of the month component from a timestamp. | @dayOfMonth('2023-03-20T00:00:00Z') | 20 |
| <u>dayOfWeek</u> | Return the day of the week component from a timestamp. | @dayOfWeek('2023-03-20T00:00:00Z') | 1 (Monday) |
| <u>dayOfYear</u> | Return the day of the year component from a timestamp. | @dayOfYear('2023-03-20T00:00:00Z') | 79 |
| <u>formatDateTime</u> | Return the timestamp as a string in optional format. | @formatDateTime('2023-03-20T12:00:00Z', 'yyyy-MM-dd') | "2023-03-20" |
| <u>getFutureTime</u> | <u>Return the current timestamp plus the specified time units.</u> | @getFutureTime(5, 'Day') | "2023-03-29T12:00:00Z" (assuming current UTC time is 2023-03-24T12:00:00Z) |

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| | See also addToTime. | | |
| getPastTime | Return the current timestamp minus the specified time units. See also subtractFromTime. | @getPastTime(5, 'Day') | "2023-03-19T12:00:00Z" (assuming current UTC time is 2023-03-24T12:00:00Z) |
| startOfDay | Return the start of the day for a timestamp. | @startOfDay('2023-03-20T12:00:00Z') | "2023-03-20T00:00:00Z" |
| startOfHour | Return the start of the hour for a timestamp. | @startOfHour('2023-03-20T12:34:56Z') | " |
| startOfMonth | Return the start of the month for a timestamp. | @startOfMonth('2023-03-20T00:00:00Z') | "2023-03-01T00:00:00Z" |
| subtractFromTime | Subtract a number of time units from a timestamp. See also getPastTime. | @subtractFromTime('2023-03-20T00:00:00Z', 1, 'day') | "2023-03-19T00:00:00Z" |
| ticks | Return the ticks property value for a specified timestamp. | @ticks('2023-03-20T00:00:00Z') | 637841088000000000 |
| utcNow | Return the current | @utcNow() | "2023-03-24T12:34:56.789Z" |

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| | timestamp as a string. | | (assuming the current UTC time) |
| String Functions | | | |
| <u>concat</u> | Combine two or more strings, and return the combined string. | @concat('Hello', ' ', 'World') | "Hello World" |
| <u>endsWith</u> | Check whether a string ends with the specified substring. | @endsWith('Hello World', 'World') | true |
| <u>guid</u> | Generate a globally unique identifier (GUID) as a string. | @guid() | "c5f5b5a5-5f5e-4f5d-5a5f-5b5c5d5e5f5g" (randomly generated GUID) |
| <u>indexOf</u> | Return the starting position for a substring. | @indexOf('Hello World', 'World') | 6 |
| <u>lastIndexOf</u> | Return the starting position for the last occurrence of a substring. | @lastIndexOf('Hello World World', 'World') | 12 |
| <u>replace</u> | Replace a substring with the specified string, and return the | @replace('Hello World', 'World', 'ADF') | "Hello ADF" |

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| | updated string. | | |
| <u>split</u> | Return an array that contains substrings, separated by commas, from a larger string based on a specified delimiter character in the original string. | @split('Hello,World', ',') | ["Hello", "World"] |
| <u>startsWith</u> | Check whether a string starts with a specific substring. | @startsWith('Hello World', 'Hello') | true |
| <u>substring</u> | Return characters from a string, starting from the specified position. | @substring('Hello World', 0, 5) | "Hello" |
| <u>toLower</u> | Return a string in lowercase format. | @toLower('Hello World') | "hello world" |
| <u>toUpper</u> | Return a string in uppercase format. | @toUpper('Hello World') | "HELLO WORLD" |
| <u>trim</u> | Remove leading and trailing whitespace from a string, | @trim(' Hello World ') | "Hello World" |

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| | and return the updated string. | | |
| Collection Functions | | | |
| <u>contains</u> | Check whether a collection has a specific item. | @contains('Hello World', 'World') | true |
| <u>empty</u> | Check whether a collection is empty. | @empty('') | true |
| <u>first</u> | Return the first item from a collection. | @first(['Hello', 'World']) | "Hello" |
| <u>intersection</u> | Return a collection that has <i>only</i> the common items across the specified collections. | @intersection(['A', 'B', 'C'], ['B', 'C', 'D']) | ["B", "C"] |
| <u>join</u> | Return a string that has <i>all</i> the items from an array, separated by the specified character. | @join(['Hello', 'World'], ',') | "Hello, World" |
| <u>last</u> | Return the last item from a collection. | @last(['Hello', 'World']) | "World" |
| <u>length</u> | Return the number of items in a | @length('Hello World') | 11 |

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| | string or array. | | |
| skip | Remove items from the front of a collection, and return <i>all the other</i> items. | @skip(['A', 'B', 'C', 'D'], 2) | ["C", "D"] |
| take | Return items from the front of a collection. | @take(['A', 'B', 'C', 'D'], 2) | ["A", "B"] |
| union | Return a collection that has <i>all</i> the items from the specified collections. | @union(['A', 'B', 'C'], ['B', 'C', 'D']) | ["A", "B", "C", "D"] |
| Logical Function | | | |
| and | Check whether all expressions are true. | @and(true, false) | false |
| equals | Check whether both values are equivalent. | @equals(5, 5) | true |
| greater | Check whether the first value is greater than the second value. | @greater(5, 3) | true |
| greaterOrEquals | Check whether the first value is greater than or equal to | @greaterOrEquals(5, 5) | true |

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| | the second value. | | |
| <u>if</u> | Check whether an expression is true or false. Based on the result, return a specified value. | @if(true, 'True', 'False') | "True" |
| <u>less</u> | Check whether the first value is less than the second value. | @less(3, 5) | true |
| <u>lessOrEquals</u> | Check whether the first value is less than or equal to the second value. | @lessOrEquals(5, 5) | true |
| <u>not</u> | Check whether an expression is false. | @not(true) | false |
| <u>or</u> | Check whether at least one expression is true. | @or(true, false) | true |
| Conversion Functions | | | |
| <u>array</u> | <u>Return an array from a single specified input. For multiple inputs,</u> | @array(["Hello", "World"]) | ["Hello", "World"] |

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| | see createArray. | | |
| base64 | Return the base64-encoded version for a string. | @base64('Hello World') | "SGVsbG8gV29ybGQ=" |
| base64ToBinary | Return the binary version for a base64-encoded string. | @base64ToBinary('SGVsbG8gV29ybGQ=') | Binary representation of "Hello World" |
| base64ToString | Return the string version for a base64-encoded string. | @base64ToString('SGVsbG8gV29ybGQ=') | "Hello World" |
| binary | Return the binary version for an input value. | @binary('Hello World') | Binary representation of "Hello World" |
| bool | Return the Boolean version for an input value. | @bool('true') | true |
| coalesce | Return the first non-null value from one or more parameters. | @coalesce(null, 'Hello', 'World') | "Hello" |
| createArray | Return an array from multiple inputs. | @createArray('Hello', 'World') | ["Hello", "World"] |
| dataUri | Return the data URI for an input value. | @dataUri('text/plain', 'Hello World') | "data:text/plain;base64,SGVsbG8gV29ybGQ=" |

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|---|---|---|--|
| <u>dataUriToBinary</u> | Return the binary version for a data URI. | @dataUriToBinary('data:text/plain;base64,SGVsbG8gV29ybGQ=') | Binary representation of "Hello World" |
| <u>dataUriToString</u> | Return the string version for a data URI. | @dataUriToString('data:text/plain;base64,SGVsbG8gV29ybGQ=') | "Hello World" |
| <u>decodeBase64</u> | Return the string version for a base64-encoded string. | @decodeBase64('SGVsbG8gV29ybGQ=') | "Hello World" |
| <u>decodeDataUri</u> | Return the binary version for a data URI. | @decodeDataUri('data:text/plain;base64,SGVsbG8gV29ybGQ=') | "Hello World" |
| <u>decodeUriComponent</u> | Return a string that replaces escape characters with decoded versions. | @decodeUriComponent('Hello%20World') | "Hello World" |
| <u>encodeUriComponent</u> | Return a string that replaces URL-unsafe characters with escape characters. | @encodeUriComponent('Hello World') | "Hello%20World" |
| <u>float</u> | Return a floating point number for an input value. | @float('3.14') | 3.14 |
| <u>int</u> | Return the integer version for a string. | @int('5') | 5 |

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| <u>json</u> | Return the JavaScript Object Notation (JSON) type value or object for a string or XML. | @json('{ "hello": "world" }') | { "hello": "world" } |
| <u>string</u> | Return the string version for an input value. | @string(42) | "42" |
| <u>uriComponent</u> | Return the URI-encoded version for an input value by replacing URL-unsafe characters with escape characters. | @uriComponent('Hello%20World') | "Hello%20World" |
| <u>uriComponentToBinary</u> | Return the binary version for a URI-encoded string. | @uriComponentToBinary('Hello%20World') | Binary representation of "Hello World" |
| <u>uriComponentToString</u> | Return the string version for a URI-encoded string. | @uriComponentToString('Hello%20World') | "Hello World" |
| <u>xml</u> | Return the XML version for a string. | @xml('<hello>world</hello>') | XML representation of "<hello>world</hello>" |
| <u>xpath</u> | Check XML for nodes or values that match an XPath (XML | @xpath('<hello>world</hello>', '/hello') | "world" |

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| | Path Language) expression, and return the matching nodes or values. | | |
| Math Functions | | | |
| add | Return the result from adding two numbers. | @add(3, 5) | 8 |
| div | Return the result from dividing two numbers. | @div(10, 2) | 5 |
| max | Return the highest value from a set of numbers or an array. | @max(3, 5) | 5 |
| min | Return the lowest value from a set of numbers or an array. | @min(3, 5) | 3 |
| mod | Return the remainder from dividing two numbers. | @mod(10, 3) | 1 |
| mul | Return the product from multiplying two numbers. | @mul(3, 5) | 15 |
| rand | Return a random integer from a specified range. | @rand(1, 10) | A random number between 1 and 10 |

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| range | Return an integer array that starts from a specified integer. | @range(1, 5) | [1, 2, 3, 4, 5] |
| sub | Return the result from subtracting the second number from the first number. | @sub(5, 3) | 2 |

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