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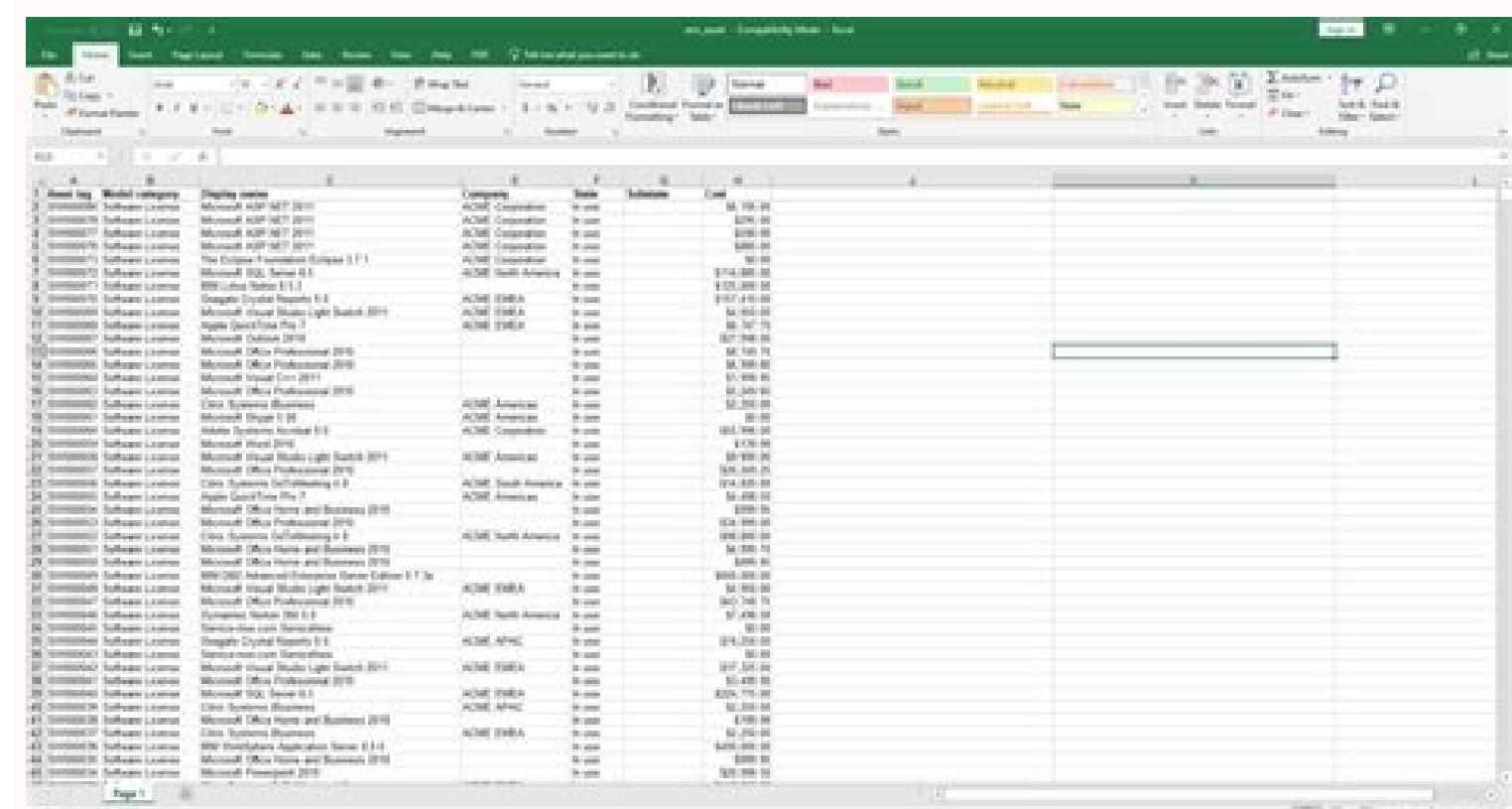


# SQL Workbench/J User's Manual

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Check json format c#. Check json format java. Check json format notepad++. Check json format in php. Check json format javascript. Check json format python. Check json format command line. Check json format bash.

In the below program isJSON function is used to validate given string contains valid JSON or not. package main import ("encoding/json" "fmt") var Object = { "userId": 1, "id": 1, "title": "delectus aut autem", "completed": false } var Array = [{"key": "value1"}, {"key": "value2"}] func isJSON(s string) bool { var js interface{} return json.Unmarshal([]byte(s), &js) == nil } func main() { val1 := isJSON(Object) fmt.Println(val1) val2 := isJSON(Array) fmt.Println(val2) } package main import ("fmt" "encoding/json") func main() { var tests = []string{ "Platypus", "Platypus", {"id": "1"}, {"id": "1"}, } for \_, t := range tests { fmt.Printf("Is valid: (%s) = %v", t, json.Valid([]byte(t))) } } Is valid: ("Platypus") = true Is valid: ({"id": "1"}) = true Is valid: ({"id": "1"}) = false The JSON Formatter was created to help folks with debugging. As JSON data is often output without line breaks to save space, it can be extremely difficult to actually read and make sense of it. This tool hoped to solve the problem by formatting and beautifying the JSON data so that it is easy to read and debug by human beings. To further expand the debugging capabilities, advanced JSON validation was soon added following the description set out by Douglas Crockford of json.org in RFC 4627. It has since been updated to allow validation of multiple JSON standards, including both current specifications RFC 8259 and ECMA-404. Most recently, the capability to fix common JSON errors was added. If enabled, it will replace incorrect quotes, add missing quotes, correct numeric keys, lowercase literals, escape unescaped characters, and remove comments and trailing commas. Online JSON Formatter and Online JSON Validator provide JSON converter tools to convert JSON to XML, JSON to CSV, and JSON to YAML also JSON Editor, JSONLint, JSON Checker, and JSON Cleaner. Free JSON Formatting Online and JSON Validator work well in Windows, Mac, Linux, Chrome, Firefox, Safari, and Edge. JSON Example: Play with JSON data: Insurance Company JSON { "InsuranceCompanies": { "Top Insurance Companies": [ { "No": "1", "Name": "Berkshire Hathaway (BRK.A)", "Market Capitalization": "\$308 billion" }, { "No": "2", "Name": "Investopedia.com", "Time": "Feb 2019" } ] } Besides letting you know whether your entered JSON code is valid or invalid, this JSON verify tool also displays the line numbers which contain errors. You can easily figure out why your JSON is invalid with the help of this tool, as it highlights all the errors inside the code. Photo by Ferenc Almasi on UnsplashImagine the following scenario: you and your teammate are working on a new feature. Your part is to create a JSON with some results and send it to your teammate. Her part is to take this JSON, parse it and save it in the database. You verbally agreed on what the keys and types should be and each one of you implemented their part. Sounds legit, and it will indeed work if the JSON structure is simple. But one day you had a bug and sent the wrong key. You learned your lesson and decided to create an API and document it in your team's favorite documentation platform. Now you can both take a look at this API to make sure you implemented it correctly. But is it enough? Let's say your teammate made a change, now it returns an array of numbers instead of a single number. Your teammate is not aware of your API, and everything breaks. What if you could validate your JSON directly in the code before sending it and before parsing it? That is what we have JSON Schema for! In this post, I will introduce JSON Schema, why it is so powerful and how we can use it in different scenarios. What is JSON Schema? JSON Schema is a JSON-based format for defining the structure of JSON data. It provides a contract for what JSON data is required for a given application and how to interact with it. It can be used for validation, documentation, hyperlink navigation, and interaction control of JSON data. The schema can be defined in a JSON file, and be loaded into your code or it can be directly created in the code. How to validate our JSON? Easy! For example, why should I use JSON Schema? Each JSON object has a basic structure of key-value. The key is a string and the value can be of any type — number, string, array, JSON, etc. In some cases, the value can be of only a specific type, and in other cases, the value is more flexible. Some keys in our JSON are required, and some of them are optional. There are more complicated scenarios. For example, if we got a certain key, then a second key must appear. The value of one key can be dependent on a second key value. All those scenarios and many more can be tested and validated locally using JSON Schema. By using it, you can validate your own JSON, and make sure it meets the API requirements before integrating with other services. Simple JSON Schema In this example, our JSON contains information about dogs. Let's take a closer look at this JSON's properties and the requirements we want to enforce on each one: Breed — we want to represent only three breeds: golden retrievers, Belgian Malinois, and Border Collie. We would like to validate that case. Age — we want the age to be rounded to years, so our value will be represented as an integer. In this example, we also want to limit the maximum age to 15. Weight — can be any positive number, int or float. Name — always a string. Can be any string. Our schema will be — This way, only age values between 0 and 15 can be added, no negative weight, and only the three specific breeds. Simple Array Schema We can also validate array values. For example, we want an array with the following properties: between 2 to 5 items, unique values, strings only. More complex functionality Some of the properties are must-haves and we would like to raise an error if they are missing. You can add the required keyword. In this case, an error will be raised when the "breed" property is missing. Other properties like "age" remain optional. Dependent required keyword conditionally requires certain properties to be present if a given property is present in an object. In this case, if the "credit\_card" property appears, then "billing\_address" is required. One of / Any of / Until now, each property is of only one type. What if our property can be of several different types? Example 1 — anyOf — To validate against any of the given data must be valid against any (one or more) of the given subschemas. In this case, our data can be either a string or a number bigger or equal to 0. Example 2 — oneOf — To validate against one of the given data must be valid against exactly one of the given subschemas. In this case, the data can only be numbers and it can be either multiple of 5 or multiple of 3, but not both! Summary JSON Schema is a powerful tool. It enables you to validate your JSON structure and make sure it meets the required API. You can create a schema as complex and nested as you need, all you need are the requirements. You can add it to your code as an additional test or in run-time. In this post, I introduced the basic structure and mentioned some more complex options. There is a lot to explore and use that you can read about. I think anyone who works with JSONs as part of their work should be familiar with this package and its options. It has the potential of saving you a lot of time and easing your integration process, just by easily validating your JSON structure. I know it saved me a lot of time since I started using it. JSON Schema Documentation Validating with JSON Schema The simplest way to check if JSON is valid is to load the JSON into a JObject or JSONArray and then use the IsValid(JToken, JSchema) method with the JSchema. Validate JSON with IsValidString(schema) = @"{"description": "A person", "type": "object", "properties": { "name": { "type": "string" }, "hobbies": { "type": "array", "items": { "type": "string" } } } }"; JSchema schema = JSchema.Parse(schemaJson); JObject person = JObject.Parse(@"{ 'name': 'James', 'hobbies': [ '.NET', 'Bloggng', 'Reading', 'Xbox', 'LOLCATS' ] }"); bool valid = person.IsValid(schema); To get validation error messages use the IsValid(JToken, JSchema, IList<string>) or Validate(JToken, JSchema, SchemaValidationEventHandler) overloads. Validate JSON with IsValid(JSchema schema) = JSchema.Parse(schemaJson); JObject person = JObject.Parse(@"{ 'name': null, 'hobbies': [ 'Invalid content', '0.123456789' ] }"); IList messages = new List(); bool valid = person.IsValid(schema, out messages); Detailed Validation Information Detailed validation error information is accessible on ValidationErrors. It provides the line number, position and path of where the error occurred in the JSON document, the JSchema that failed validation, and any child errors that occurred. IsValid(JToken, JSchema, IList<ValidationErrors>) and ValidationErrors both provide ValidationErrors for any errors. Detailed validation information with ValidationErrorsString(schema) = @"{"description": "Collection of non-primary colors", "type": "array", "items": { "allOf": [ { '\$ref': '#/definitions/hexColor' } ], 'not': { 'enum': [ '#FF0000', '#00FF00', '#0000FF' ] } }, 'definitions': { 'hexColor': { 'type': 'string', 'pattern': '^#[A-Fa-f0-9]{6}\$' } } }"; JSchema schema = JSchema.Parse(schemaJson); JSONArray colors = JSONArray.Parse(@"[ '#DAA520', '#goldenrod', '#FF69B4', // hot pink '#0000FF', // blue 'Black' ]"); IList errors; bool valid = colors.IsValid(schema, out errors); Validating when reading JSON Internally IsValid uses JSchemaValidatingReader to perform the JSON Schema validation. To skip the overhead of loading JSON into a JObject/JSONArray, validating the JSON, and then deserializing the JSON into a class, JSchemaValidatingReader can be used with JsonSerializer to validate JSON while the object is being deserialized. Validate JSON with JSchemaValidatingReader string json = @"{ 'name': 'James', 'hobbies': [ '.NET', 'Bloggng', 'Reading', 'Xbox', 'LOLCATS' ] }"; JsonTextReader reader = new JsonTextReader(new StringReader(json)); JSchemaValidatingReader validatingReader = new JSchemaValidatingReader(reader); validatingReader.Schema = JSchema.Parse(schemaJson); IList messages = new List(); validatingReader.ValidationEventHandler += (o, a) => messages.Add(a.Message); JsonSerializer serializer = new JsonSerializer(); string p = serializer.Deserialize(validatingReader); Validating when writing JSON JSON can also be validated while writing JSON with JSchemaValidatingWriter. Validate JSON with JSchemaValidatingWriter Person person = new Person { Name = "James", Hobbies = new List { ".NET", "Bloggng", "Reading", "Xbox", "LOLCATS" } }; StringWriter stringWriter = new StringWriter(); JsonTextWriter writer = new JsonTextWriter(stringWriter); JSchemaValidatingWriter validatingWriter = new JSchemaValidatingWriter(writer); validatingWriter.Schema = JSchema.Parse(schemaJson); IList messages = new List(); validatingWriter.ValidationEventHandler += (o, a) => messages.Add(a.Message); JsonSerializer serializer = new JsonSerializer(); serializer.Serialize(validatingWriter, person); See Also



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