QBE
- `_attributeName: string`
- `_comparisonOperator: ComparisonOperator`
- `_value: string`
- `assert(string, boolean): boolean`
- `QBE(string, ComparisonOperator, string)`
- `toKVP(): KVP`

FetchResultSet
- `_data: Array<KVP>`
- `concat(FetchResultSet): void`
- `FetchResultSet(JSONObject)`
- `push(KVP): void`
- `remove(number): void`
- `size(): number`
- `toKVP(DataStructureType): KVP`

«enumeration» DataStructureType
- `HORIZONTAL = "Horizontal"`
- `VERTICAL = "Vertical"`

«enumeration» AggregateOperator
- `SUM = "SUM"`
- `AVG = "AVG"`
- `COUNT = "COUNT"`

«enumeration» ComparisonOperator
- `EQ = "=="`
- `LT = "<"`
- `LEQ = "<="`
- `GEQ = ">="`
- `GT = ">"`

«enumeration» QueryAbleAttributeNamesKML
- `ID = "id"`
- `NAME = "name"`
- `VISIBILITY = "visibility"`
- `SIMPLEDATA_NAME = "simpledata_name"`
- `SIMPLEDATA_VALUE = "simpledata_value"`

PostgreSQL
- `_idColName: string`
- `aggregateByIds(Array<string>, AggregateOperator, string): Promise<number>`
- `aggregateByIds(Array<string>, AggregateOperator): Promise<{kvp: KVP}`
- `deleteAttributeOfId(string, string): Promise<boolean>`
- `deleteAttributesUsingQBE(QBE, Array<string>): Promise<boolean>`
- `deleteObjectOfId(string): Promise<boolean>`
- `deleteObjectsUsingQBE(QBE): Promise<boolean>`
- `fetchAttributeNamesFromId(string): Promise<FetchResultset>`
- `fetchAttributeValuesFromId(string): Promise<FetchResultset>`
- `fetchIdsFromQBE(QBE, number): Promise<Set<string>>`
- `fetchIdsFromQBEs(Array<QBE>, number): Promise<Set<string>>`
- `insertAttributeOfId(string, string, any): Promise<boolean>`
- `insertAttributesUsingQBE(QBE, KVP): Promise<boolean>`
- `insertNewObject(JSONObject): Promise<boolean>`
- `login(JSONObject): Promise<boolean>`
- `logout(): Promise<boolean>`
- `PostgreSQL(JSONObject)`
- `updateAttributeValueOfId(string, string, any): Promise<boolean>`
- `updateAttributeValuesUsingQBE(QBE, KVP): Promise<boolean>`

GoogleSheets
- `_spreadsheetId: string`
- `apiUrlPrexis: string`
- `aggregateByIds(Array<string>, AggregateOperator, string): Promise<number>`
- `aggregateByIds(Array<string>, AggregateOperator): Promise<{kvp: KVP}`
- `deleteAttributeOfId(string, string): Promise<boolean>`
- `deleteAttributesUsingQBE(QBE, Array<string>): Promise<boolean>`
- `deleteObjectOfId(string): Promise<boolean>`
- `deleteObjectsUsingQBE(QBE): Promise<boolean>`
- `fetchAttributeNamesFromId(string): Promise<FetchResultset>`
- `fetchAttributeValuesFromId(string): Promise<FetchResultset>`
- `fetchIdsFromQBE(QBE, number): Promise<Set<string>>`
- `fetchIdsFromQBEs(Array<QBE>, number): Promise<Set<string>>`
- `GoogleSheets(JSONObject)`
- `insertAttributeOfId(string, string, any): Promise<boolean>`
- `insertAttributesUsingQBE(QBE, KVP): Promise<boolean>`
- `insertNewObject(JSONObject): Promise<boolean>`
- `login(JSONObject): Promise<boolean>`
- `logout(): Promise<boolean>`
- `updateAttributeValueOfId(string, string, any): Promise<boolean>`
- `updateAttributeValuesUsingQBE(QBE, KVP): Promise<boolean>`

KML
- `aggregateByIds(Array<string>, AggregateOperator, string): Promise<number>`
- `aggregateByIds(Array<string>, AggregateOperator): Promise<{kvp: KVP}`
- `fetchAttributeNamesFromId(string): Promise<FetchResultset>`
- `fetchAttributeValuesFromId(string): Promise<FetchResultset>`
- `fetchIdsFromQBE(QBE, number): Promise<Set<string>>`
- `fetchIdsFromQBEs(Array<QBE>, number): Promise<Set<string>>`
- `KML(JSONObject)`

FirstNormalFormDataSource
- `# _dataStructureType: DataStructureType`
- `+ FirstNormalFormDataSource(JSONObject): void`

NonFirstNormalFormDataSource
- `+ NonFirstNormalFormDataSource(JSONObject)`

UnitDataSource
- `# _provider: string`
- `# _uri: string`
- `+ UnitDataSource(JSONObject)`

DataSource
- `# _capabilities: DataSourceCapabilities`
- `# _dataSourceType: DataSourceType`
- `# _name: string`
- `+ DataSource(JSONObject)`

«interface» SecuredDataSource
- `+ login(JSONObject): Promise<boolean>`
- `+ logout(): Promise<boolean>`

«interface» WritableDataSource
- `+ deleteAttributeOfId(string, string): Promise<boolean>`
- `+ deleteAttributesUsingQBE(QBE, Array<string>): Promise<boolean>`
- `+ deleteObjectOfId(string): Promise<boolean>`
- `+ deleteObjectsUsingQBE(QBE): Promise<boolean>`
- `+ insertAttributeOfId(string, string, any): Promise<boolean>`
- `+ insertAttributesUsingQBE(QBE, KVP): Promise<boolean>`
- `+ insertNewObject(JSONObject): Promise<boolean>`
- `+ updateAttributeValueOfId(string, string, any): Promise<boolean>`
- `+ updateAttributeValuesUsingQBE(QBE, KVP): Promise<boolean>`

«interface» ReadableDataSource
- `+ aggregateByIds(Array<string>, AggregateOperator, string): Promise<number>`
- `+ aggregateByIds(Array<string>, AggregateOperator): Promise<{kvp: KVP}>`
- `+ fetchAttributeNamesFromId(string): Promise<FetchResultset>`
- `+ fetchAttributeValuesFromId(string): Promise<FetchResultset>`
- `+ fetchIdsFromQBE(QBE, number): Promise<Set<string>>`
- `+ fetchIdsFromQBEs(Array<QBE>, number): Promise<Set<string>>`

«interface» ProxyDataSource
- `+ proxyPrefix: string`

MashupDataSource
- `_mashup: Array<DataSource>`
- `+ addDataSource(DataSource): void`
- `+ aggregateByIds(Array<string>, AggregateOperator, string): Promise<number>`
- `+ aggregateByIds(Array<string>, AggregateOperator): Promise<{kvp: KVP}>`
- `+ fetchAttributeNamesFromId(string): Promise<FetchResultset>`
- `+ fetchAttributeValuesFromId(string): Promise<FetchResultset>`
- `+ fetchIdsFromQBE(QBE, number): Promise<Set<string>>`
- `+ fetchIdsFromQBEs(Array<QBE>, number): Promise<Set<string>>`
- `+ get(number): DataSource`
- `+ MashupDataSource(JSONObject, Array<DataSource>)`
- `+ removeDataSource(number): void`
- `+ size(): number`

`_mashup` `0..*` `1`

«interface» DataSourceCapabilities
- `+ dbTransactionCapabilities: DBTransactionCapabilities`
- `+ securityCapabilities: SecurityCapabilities`
- `+ webCapabilities: WebCapabilities`

«interface» WebCapabilities
- `+ restAPI: boolean`

«interface» DBTransactionCapabilities
- `+ delete: boolean`
- `+ insert: boolean`
- `+ read: boolean`
- `+ update: boolean`

«interface» SecurityCapabilities
- `+ oauth: boolean`