TensorFlow   API r1.4

tf.contrib.lookup.InitializableLookupTableBase

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Class **InitializableLookupTableBase**

Inherits From: **LookupInterface**

Defined in **tensorflow/python/ops/lookup_ops.py** .

Initializable lookup table interface.

An initializable lookup tables persist across different steps.

Properties

default_value

The default value of the table.

init

The table initialization op.

key_dtype

The table key dtype.

name

The name of the table.

table_ref

Get the underlying table reference.

value_dtype

The table value dtype.

Methods

`__init__`

```
__init__(
    table_ref,
    default_value,
    initializer
)
```

Construct a table object from a table reference.

If requires a table initializer object (subclass of `TableInitializerBase`). It provides the table key and value types, as well as the op to initialize the table. The caller is responsible to execute the initialization op.

Args:

- `table_ref` : The table reference, i.e. the output of the lookup table ops.
- `default_value` : The value to use if a key is missing in the table.
- `initializer` : The table initializer to use.

`lookup`

```
lookup(
    keys,
    name=None
)
```

Looks up `keys` in a table, outputs the corresponding values.

The `default_value` is used for keys not present in the table.

Args:

- `keys` : Keys to look up. May be either a `SparseTensor` or dense `Tensor` .
- `name` : A name for the operation (optional).

Returns:

A `SparseTensor` if keys are sparse, otherwise a dense `Tensor` .

Raises:

- `TypeError` : when `keys` or `default_value` doesn't match the table data types.

`size`

```
size(name=None)
```

Compute the number of elements in this table.

Args:

- `name` : A name for the operation (optional).

Returns:

A scalar tensor containing the number of elements in this table.

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