

# Python Gateway ??? IV??????????

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[Minoru Horita](#) · 2020??24?



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# Python Gateway ??? IV??????????

????????InterSystems????????????[Python Gateway](#)???????????? InterSystems IRIS??Python????????????  
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- ???Python????????
- InterSystems IRIS??Python????????????
- Python????????????????????????????????????
- InterSystems IRIS??Python????????????????

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- [??? I????????](#)
- [??? II????????????????????](#)
- [??? III????](#)
- ??? IV???????? <-- ?????????????
- ??? V?Execute??
- ??? VI????????
- ??? VII????????
- ??? VIII????ML Toolkit

## ????

????????Python Gateway????????????????????????Python????????????  
????????Python???????????????????? isc.py.ens.Operation ?????????????????????

- Python????????????????????????????
- ?????????/????
- Python????????

???????????? isc.py.Main ?????????????????????  
isc.py.ens.Operation????????????Python????????????????????5????????????????

- isc.py.msg.ExecutionRequest ???Python???????????????????? isc.py.msg.ExecutionResponse ?????
- isc.py.msg.StreamExecutionRequest ???Python????????????????????????????  
isc.py.msg.StreamExecutionResponse ?????? ?????????????????????????
- isc.py.msg.QueryRequest ?????SQL???????????????????? Ens.Response ?????
- isc.py.msg.GlobalRequest/isc.py.msg.ClassRequest/isc.py.msg.TableRequest  
????????????/??/???????????????????????? Ens.Response ?????
- isc.py.msg.SaveRequest ???Python????????????????????ID?? Ens.StringResponse ?????





??? isc.py.msg.ExecutionRequest ????? Correlation Matrix: Tabular ???????????????????

???Python??Correlation Matrix????? corrmat ?????????????????????????????????InterSystems IRIS?JSON??????????

- Variables: "corrmat"
- Serialization: "JSON"

????????????????????????????????

```
<?xml version="1.0" ?>
<!-- type: isc.py.msg.ExecutionResponse id: 39 -->
<ExecutionResponse>
  <Variables>
    <VariablesItem VariablesKey="corrmat">{"ID": {"ID": 1.0, "BRATWURST": -0.1396528952, "CERVELAS": -0.1653782455, "CHARCUTERIE": 0.1957509543, "DAUERFLEISCHWAREN": -0.2304685661, "GEBLUEGEL": -0.1556041234, "GERAEUCHERTES_ZUM_KOCHEN": 0.1201808219, "HACKFLEISCH": -0.007470639, "INNEREIEN_DIVERSES": 0.1841530547, "KALB": 0.2505482217, "KANINCHEN": 0.0983335963, "LAMB": 0.0322060242, "MARINADEN": -0.0523634152, "PASTETEN_TERRINEN_STREICHWURST": 0.1207699624, "PFANNENFERTIGES": -0.1729607121, "PFERD": 0.1511626273, "RIND": -0.1669675069, "SALAMI_ROHWURST_AM_STUECK": -0.0359277478, "SCHINKEN": 0.083932271, "SCHWEIN": -0.0996131339, "UEBRIGE_BRUEHWURST_STUECK": -0.1818032691, "WIENERLI_KNACKERLI_FRANKFURTERLI": 0.2051314975, "YEAR": -0.4156204313}, "BRATWURST": {"ID": -0.1396528952, "BRATWURST": 1.0, "CERVELAS": 0.9275814652, "CHARCUTERIE": 0.1164791854, "DAUERFLEISCHWAREN": 0.5048702921, "GEBLUEGEL": 0.7564059501, "GERAEUCHERTES_ZUM_KOCHEN": -0.8557438994, "HACKFLEISCH": -0.3870817519, "INNEREIEN_DIVERSES": -0.8719368592, "KALB": -0.3001549038, "KANINCHEN": -0.3063069759, "LAMB": 0.2482520352, "MARINADEN": 0.9257438964, "PASTETEN_TERRINEN_STREICHWURST": -0.1776698958, "PFANNENFERTIGES": 0.033689947, "PFERD": 0.7367010898, "RIND": 0.4072385956, "SALAMI_ROHWURST_AM_STUECK": -0.125547241, "SCHINKEN": -0.1607605659, "SCHWEIN": 0.8048212961, "UEBRIGE_BRUEHWURST_STUECK": 0.5340006298, "WIENERLI_KNACKERLI_FRANKFURTERLI": -0.7462027204, "YEAR": 0.241845298}, "CERVELAS": {"ID": -0.1653782455, "BRATWURST": 0.9275814652, "CERVELAS": 1.0, "CHARCUTERIE": 0.1521966631, "DAUERFLEISCHWAREN": 0.4648267099, "GEBLUEGEL": 0.7412426971, "GERAEUCHERTES_ZUM_KOCHEN": -0.8494258042, "HACKFLEISCH": -0.3599910641,
```

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???InterSystems IRIS??Python??? isc.py.msg.DataRequest ??????????

- Variable - ???Python?????
- Type - ?????????dataframe?pandas????????????? list ??????????????
- Namespace - ?????????????????????'isc.py' ??

????????4????????????????

- isc.py.msg.QueryRequest - SQL????????????????? Query ??????????????
- isc.py.msg.ClassRequest - ?????????????????? Class ??????????????
- isc.py.msg.TableRequest - ?????????????????? Table ??????????????
- isc.py.msg.GlobalRequest - ?????????????????? Global ??????????????



# Python Gateway ??? IV??????????

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[#????????????? #?????????BPL? #????? #InterSystems IRIS InterSystems Open Exchange????????????????????](#)

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- [Python Gateway ???III?????](#)
- [Python Gateway ??? IV??????????](#)
- [Python Gateway ??? V?Execute??](#)

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???URL: <https://jp.community.intersystems.com/post/python-gateway-%E3%83%91%E3%83%BC%E3%83%88-i%E3%83%97%E3%83%80%E3%83%97%E3%82%BF>