# SQLAlchemy + SBK = sqlasbk

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# First steps

- Preparing environment
- Connecting to SBK
- Using 'sbk' view
- Querying database in SQLAlchemy
  - Using plain SQL
  - Using object mapping
- Making object mappers for SBK database

# SQLAlchemy – first steps

- Proof of concept – SELECT anything from SBK

```
Selecting using implicit execution:
        Selecting all from table "site"...
                (u'INFN-PERUGIA', u'INFN-PERUGIA', u'It has SL4 and i386 [Manzali 22-12-2011]',
3, 6, 3, 6, u'SL-4', u'i386', u'EGI', False)
                (u'INFN-TORINO', u'INFN-TORINO', u'error in FullSim: libG4OpenGL.so [Manzali
22-12-2011]', 30, 300, 10, 50, u'SL-5.3', u'x86_64', u'EGI', False)
                (...)


Selecting using Session and basic mapping:
        Selecting all from table "site"...
        Printing site names...
                INFN-PERUGIA
                INFN-TORINO
                CIT_HEP
                (...)
```
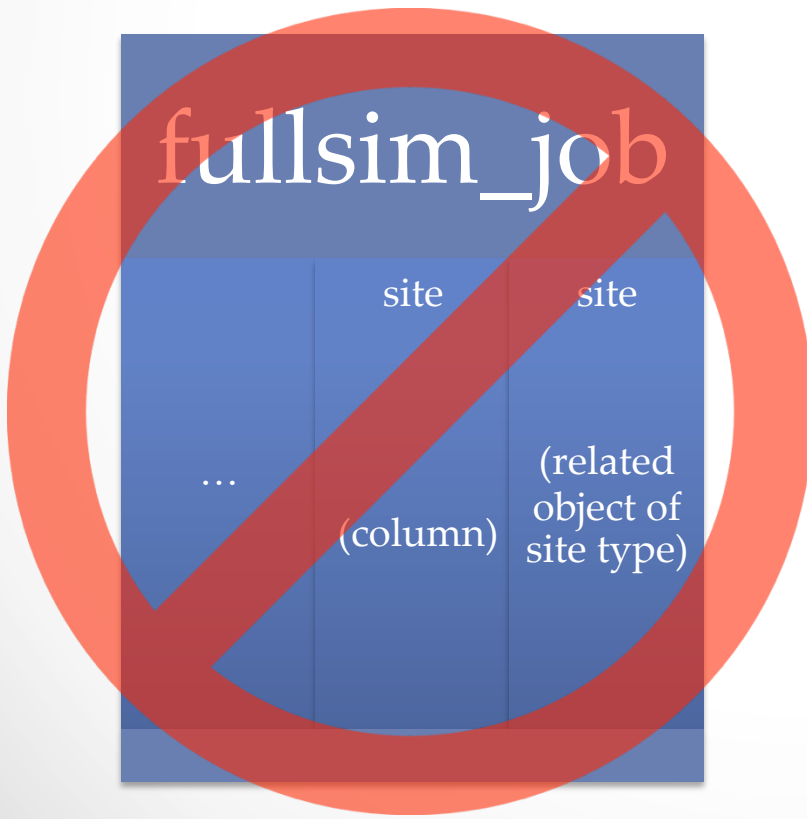
# Good news

- SQLAlchemy works like a charm with SBK
- Lot of work but no serious issues with mapping

# Bad news

- Column names in database
  - Foreign keys column names don't suggest it's FK
  - Conflict with reasonable names – object relation has to have different name than the columns

# Progress on mappers

- Most of tables related with fullsim_job mapped
- Tables related with fastsim_job in progress
- More details and discussion (mainly naming) on the next meeting

# IFR workshop 7-9 September

- Short presentation about SuperB computing
  - Resources for SuperB VO in Cyfronet
  - Marcin's computing on CC1 private cloud
  - Progress and plans on my task (SBK Dirac integration)


- Suggestions?