

Multi-fact Table Home

i2b2 Multiple Fact Tables

Project Name:	Multi-fact table	Repository Location:	https://github.com/i2b2/i2b2-core-server
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Project Summary

The multi-fact table project is a new feature that has been added to version 1.7.09 of the i2b2. Prior to this release, the i2b2 star schema could only support one fact table (observation_fact). We have noticed an increasing need for the i2b2 to be able to search multiple fact tables with a single query. The i2b2 server has been updated to allow those sites that want to use multiple fact tables will have the option to do so. This new feature enables the i2b2 to adapt to the needs of such projects as the Patient Centered Outcome Research Institute (PCORI) network and the Observational Medical Outcomes Partnership (OMOP) Common Data Model (CDM). It can also be used for sites that want to be able to query both genomic and phenotype data but don't want the data to reside in a single table.

Starting with 1.7.12 version, you can set *multifacttable* parameter in *hive_cell_params* table. Using SQL editor, update the param_name_cd *queryprocessor.multifacttable* value to true

example Oracle syntax:

Example Oracle syntax

```
UPDATE hive_cell_params
```

```
set value ='true' where param_name_cd ='queryprocessor.multifacttable' and cell_id ='CRC';
```

The screenshot displays the Databricks interface with a SQL query and its results. The query is as follows:

```

1 select * from hive_cell_params
2 where param_name_cd='queryprocessor.multifacetable'and cell_id='CRC';

```

The results table contains 15 columns: ID, DATATYPE_CD, CELL_ID, PARAM_NAME_CD, VALUE, CHANGE_DATE, ENTRY_DATE, CHANGEDBY_CHAR, and STATUS_CD. The data shows a series of logs from the query processor and the metastore, including messages about ontology loading, query execution, and connection factory operations.

ID	DATATYPE_CD	CELL_ID	PARAM_NAME_CD	VALUE	CHANGE_DATE	ENTRY_DATE	CHANGEDBY_CHAR	STATUS_CD
47	CRC	1282	MESSAGE STATUS OUTPUT	000000	2022-07-27	2022-07-27	A	
48	CRC	1282	MESSAGE STATUS OUTPUT	000000	(null)	(null)	(null)	A
65	ONT	ontology.terminal.delimiter		true	(null)	(null)	(null)	A
53	ONT	ontology.ws.pm.url		/services/FMSservice/getServices	(null)	(null)	(null)	A
36	CRC	quervprocessor.indi.pdoquervlocal		ejb.quervvtol.pdoQuervLocal	(null)	(null)	(null)	A
30	CRC	quervprocessor.indi.quervexecutormdblocal		ejb.quervvtol.quervExecutorM...	(null)	(null)	(null)	A
38	CRC	quervprocessor.indi.quervexecutormdbremote		ejb.quervvtol.quervExecutorMDB	(null)	(null)	(null)	A
32	CRC	quervprocessor.indi.quervmasterlocal		ejb.quervvtol.quervMasterLocal	(null)	(null)	(null)	A
35	CRC	quervprocessor.indi.quervresultlocal		ejb.quervvtol.quervResultLocal	(null)	(null)	(null)	A
34	CRC	quervprocessor.indi.quervrunlocal		ejb.quervvtol.quervRunLocal	(null)	(null)	(null)	A
39	CRC	quervprocessor.indi.queue.connectionfactory		QueueConnectionFactory	(null)	(null)	(null)	A
41	CRC	quervprocessor.indi.queue.executor queue		queue/jms.quervvtol.quervExe...	(null)	(null)	(null)	A
40	CRC	quervprocessor.indi.queue.response queue		queue/jms.quervvtol.quervRes...	(null)	(null)	(null)	A
49	CRC	quervprocessor.ws.ontology.url		/services/OntologyService/ge...	(null)	(null)	(null)	A
50	CRC	quervprocessor.ws.ontology.url		/services/OntologyService/ge...	(null)	(null)	(null)	A
61	CRC	quervprocessor.ws.pm.url		/services/FMSservice/getServices	(null)	(null)	(null)	A
52	WORK	workspace.ws.pm.url		/services/FMSservice/getServices	(null)	(null)	(null)	A
68	IM	im.ws.dtm.url		/services/FMSservice/getServices	(null)	(null)	(null)	A
69	IM	im.checkPatientInProject		true	(null)	(null)	(null)	A
70	IM	im.emsi.service		none	(null)	(null)	(null)	A

Deprecated Feature

Prior to 1.7.12 , the parameter *“queryprocessor.multifacttable”* was set in crc.properties file. The setting is now configurable in the database.

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 Beginning in 1.7.12, the CRC properties are in the database! See [this link](#).