

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.multifactable' and cell_id = 'CRC';

The screenshot shows a database query tool interface. The query builder displays the following SQL query:


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

The script output shows the results of the query, with the following columns: ID, DATATYPE_CD, CELL_ID, PARAM_NAME_CD, VALUE, CHANGE_DATE, ENTRY_DATE, CHANGE_BY_CHAR, and STATUS_CD. The results are as follows:

ID	DATATYPE_CD	CELL_ID	PARAM_NAME_CD	VALUE	CHANGE_DATE	ENTRY_DATE	CHANGE_BY_CHAR	STATUS_CD
44	T	CRC	I2B2 MESSAGE STATUS	QUEUED	(null)	(null)	(null)	A
65	T	ONT	ontology.terminal.delimiter	true	(null)	(null)	(null)	A
53	U	ONT	ontology.ws.dm.url	/services/PMService/getServices	(null)	(null)	(null)	A
36	T	CRC	queryprocessor.indi.pdoquervlocal	ejb.quervtool.PdoQuervLocal	(null)	(null)	(null)	A
30	T	CRC	queryprocessor.indi.quervexecutormdblocal	ejb.quervtool.QuervExecutorMDB	(null)	(null)	(null)	A
38	T	CRC	queryprocessor.indi.quervexecutormdbremote	ejb.quervtool.QuervExecutorMDB	(null)	(null)	(null)	A
32	T	CRC	queryprocessor.indi.quervmasterlocal	ejb.quervtool.QuervMasterLocal	(null)	(null)	(null)	A
35	T	CRC	queryprocessor.indi.quervresultlocal	ejb.quervtool.QuervResultLocal	(null)	(null)	(null)	A
34	T	CRC	queryprocessor.indi.quervrunlocal	ejb.quervtool.QuervRunLocal	(null)	(null)	(null)	A
39	T	CRC	queryprocessor.indi.queue.connectionfactory	ConnectionFactory	(null)	(null)	(null)	A
41	T	CRC	queryprocessor.indi.queue.executor.queue	queue/ims.quervtool.QuervExe...	(null)	(null)	(null)	A
40	T	CRC	queryprocessor.indi.queue.response.queue	queue/ims.quervtool.QuervRes...	(null)	(null)	(null)	A
47	T	CRC	ontology.ws.dm.url	true	(null)	(null)	(null)	A
50	U	CRC	queryprocessor.ws.ontology.url	/services/OntologyService/ge...	(null)	(null)	(null)	A
51	U	CRC	queryprocessor.ws.dm.url	/services/PMService/getServices	(null)	(null)	(null)	A
52	U	WORK	workplace.ws.dm.url	/services/PMService/getServices	(null)	(null)	(null)	A
68	U	IM	im.ws.dm.url	/services/PMService/getServices	(null)	(null)	(null)	A
69	T	IM	im.checkPatientInProject	true	(null)	(null)	(null)	A
70	T	IM	im.gmml.service	none	(null)	(null)	(null)	A

Deprecated Feature

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

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