

3.11 Multiple Fact Tables

Multi-fact Table Home

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.

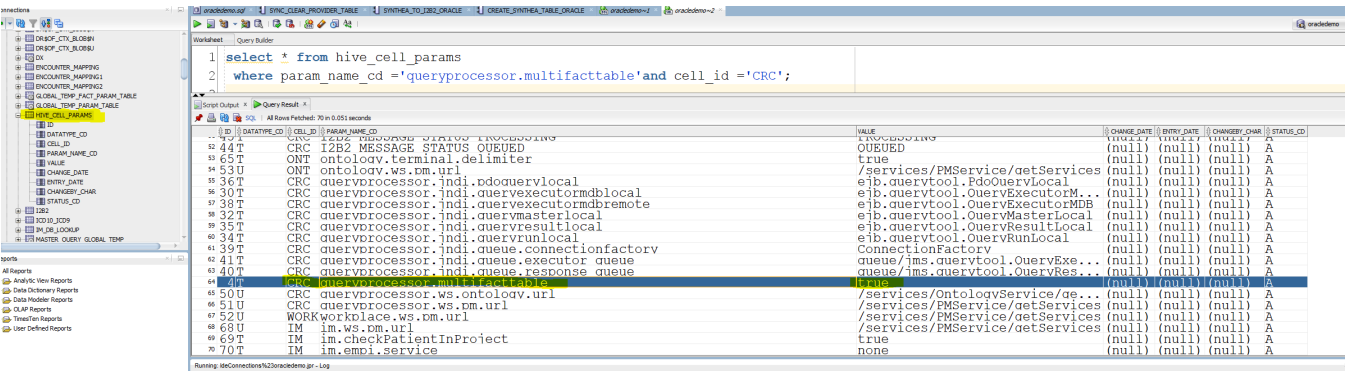
Starting with 1.7.12 version, you can set *multifacttable* parameter in *hive_cell_params* table. Using SQL editor, update the param_name_cd *queryprocessor.multifacttable* value to true

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 shows the Oracle SQL Developer interface. The Query Builder window displays the following SQL query:

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

The Results window shows the output of the query as a table with the following columns: ID, DATATYPE_CD, CELL_ID, PARAM_NAME_CD, VALUE, CHANGE_DATE, ENTRY_DATE, CHANGEBY_CHAR, and STATUS_CD. The table contains 20 rows of data, with the 19th row highlighted in blue, indicating the record where the parameter was updated.

ID	DATATYPE_CD	CELL_ID	PARAM_NAME_CD	VALUE	CHANGE_DATE	ENTRY_DATE	CHANGEBY_CHAR	STATUS_CD
2	CRC	12B2	MESSAGE STATUS QUEUED	QUEUED	(null)	(null)	(null)	A
44	T	CRC	12B2 MESSAGE STATUS QUEUED	QUEUED	(null)	(null)	(null)	A
65	T	CRC	ontology.terminal.delimiter	true	(null)	(null)	(null)	A
53	U	CRC	ontology.ws.dm.url	/services/PMService/getServices	(null)	(null)	(null)	A
36	T	CRC	quervprocessor.indi.quervexecutormdblocal	eib.quervtool.FdoQuervLocal	(null)	(null)	(null)	A
30	T	CRC	quervprocessor.indi.quervexecutormdblocal	eib.quervtool.QuervExecutorM...	(null)	(null)	(null)	A
38	T	CRC	quervprocessor.indi.quervexecutormdbremote	eib.quervtool.QuervExecutorMDB	(null)	(null)	(null)	A
32	T	CRC	quervprocessor.indi.quervmasterlocal	eib.quervtool.QuervMasterLocal	(null)	(null)	(null)	A
35	T	CRC	quervprocessor.indi.quervresultlocal	eib.quervtool.QuervResultLocal	(null)	(null)	(null)	A
34	T	CRC	quervprocessor.indi.quervrunlocal	eib.quervtool.QuervRunLocal	(null)	(null)	(null)	A
39	T	CRC	quervprocessor.indi.queue.connectionfactory	ConnectionFactory	(null)	(null)	(null)	A
41	T	CRC	quervprocessor.indi.queue.executor queue	queue/ims.quervtool.QuervExe...	(null)	(null)	(null)	A
40	T	CRC	quervprocessor.indi.queue.response queue	queue/ims.quervtool.QuervRes...	(null)	(null)	(null)	A
49	U	CRC	queryprocessor.multifacttable	true	(null)	(null)	(null)	A
50	U	CRC	quervprocessor.ws.ontology.url	/services/OntologyService/ge...	(null)	(null)	(null)	A
51	U	CRC	quervprocessor.ws.dm.url	/services/PMService/getServices	(null)	(null)	(null)	A
52	U	CRC	WORKworkplace.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.empi.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.



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