

**git\_comments:**

1. \* \* Class which keep the information about the rows \* while got deleted
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3. \* \* Below method will be used to insert the rows \* which are deleted \* \* @param data
4. \* \* below method will be used to check the row is deleted or not \* \* @param counter \* @return
5. \* \* deleted rows bitset
6. \* \* class to hold information about delete delta files
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8. \* \* delete delta files
9. \* \* latest delete delta file timestamp
10. \* \* @param deletedRowsMap
11. \* \* map of blockletidAndPageId to \* deleted rows
12. \* \* @return latest deleted delta timestamp
13. \* \* @return the deleted record for block map
14. \* \* last fetch delete deltaFile timestamp
15. \* \* set the latest delete delta timestamp \* @param deleteDeltaTimestamp
16. \* \* delete delta files path for this block
17. \* \* Below method will be used to get the latest delete delta file timestamp \* @param deleteDeltaFiles \* @return latest delete delta file time stamp
18. \* \* Below method will be used to read the delete delta files \* and get the map of blockletid and page id mapping to deleted \* rows \* \* @param deltaFiles delete delta files array \* @return map of blockletid\_pageid to deleted rows
19. \* \* @return deleted record map
20. \* \* @return delete delta files
21. \* \* set the delete delta files \* @param deleteDeltaFilePath
22. \* \* @param deletedRecordsMap
23. \* \* delete delta file path
24. \* \* actual blocklet number
25. \* \* Below method will be used to check row got deleted \* \* @param rowId \* @return is present in deleted row
26. \* \* blockletid+pageumber to deleted reocrd map
27. \* \* current page delete delta vo
28. if deleted recors map is present for this block then get the first page deleted vo
29. get the lock object so in case of concurrent query only one task will read the delete delta files other tasks will wait
30. read the delete delta files
31. if datablock deleted delta timestamp is more then the current delete delta files timestamp then return the current deleted rows
32. set the deleted row to block execution info
33. double checking
34. check if timestamp of data block is less than the latest delete delta timestamp then update the delete delta details and timestamp in data block

35. read and get the delete detail block details
36. if lock object is null then add a lock object
37. check the timestamp again
38. `** Below method will be used to get the delete delta rows for a block ** @param dataBlock data block  
* @param deleteDeltaInfo delete delta info * @return blockid+pageid to deleted row mapping`
39. double checking to check the deleted rows is already present or not
40. remove the lock
41. if not then acquire the lock
42. if delete delta file is present
43. `** Below method will be used to set deleted records map to data block * based on latest delta file  
timestamp ** @param deleteDeltaInfo * @param deletedRecordsMap * @param dataBlock`
44. `** Below method will be used to get all the delete delta files based on block name ** @param  
blockFilePath actual block filePath * @return all delete delta files * @throws Exception`
45. `** list of delete delta files for split`

#### git\_commits:

1. **summary:** [CARBONDATA-1156]Improve IUD performance and fixed synchronization issue. This closes #1019  
**message:** [CARBONDATA-1156]Improve IUD performance and fixed synchronization issue. This closes #1019  
**label:** code-design

#### github\_issues:

#### github\_issues\_comments:

#### github\_pulls:

1. **title:** [CARBONDATA-1156]Improve IUD performance and fixed synchronization issue  
**body:** Delete delta file loading is taking more time as it is read for blocklet level. Now added code to read block level. In current IUD design delete delta files are getting listed for each block in executor level in case of parallel query and iud operation it may give wrong result. Now passing delete delta information from driver to executor
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#### github\_pulls\_comments:

1. Refer to this link for build results (access rights to CI server needed):  
<https://builds.apache.org/job/carbondata-pr-spark-1.6/264/>
2. Build Failed with Spark 2.1.0, Please check CI  
<http://136.243.101.176:8080/job/ApacheCarbonPRBuilder/2385/>
3. Refer to this link for build results (access rights to CI server needed):  
<https://builds.apache.org/job/carbondata-pr-spark-1.6/266/>
4. Build Success with Spark 2.1.0, Please check CI  
<http://136.243.101.176:8080/job/ApacheCarbonPRBuilder/2387/>
5. Refer to this link for build results (access rights to CI server needed):  
<https://builds.apache.org/job/carbondata-pr-spark-1.6/287/>
6. Build Failed with Spark 2.1.0, Please check CI  
<http://136.243.101.176:8080/job/ApacheCarbonPRBuilder/2408/>
7. LGTM

#### github\_pulls\_reviews:

1. remove semicolon
2. Again do `deleteDeltaToLockObjectMap.get(deleteDeltaInfo);` to avoid null pointer exception
3. ok. I missed it:)

#### jira\_issues:

1. **summary:** IUD Performance Improvement And Synchronizaion issue  
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**jira\_issues\_comments:**