- For more information about the CREATE TABLESPACE and ALTER TABLESPACE statements, see Section 13.1.21, "CREATE TABLESPACE Statement", and Section 13.1.10, "ALTER TABLESPACE Statement".
- 3. Now it is possible to create a table whose unindexed columns are stored on disk using files in tablespace ts 1:

```
CREATE TABLE dt_1 (
member_id INT UNSIGNED NOT NULL AUTO_INCREMENT PRIMARY KEY,
last_name VARCHAR(50) NOT NULL,
first_name VARCHAR(50) NOT NULL,
dob DATE NOT NULL,
joined DATE NOT NULL,
INDEX(last_name, first_name)
)
TABLESPACE ts_1 STORAGE DISK
ENGINE NDBCLUSTER;
```

TABLESPACE ts\_1 STORAGE DISK tells the NDB storage engine to use tablespace ts\_1 for data storage on disk.

Once table ts\_1 has been created as shown, you can perform INSERT, SELECT, UPDATE, and DELETE statements on it just as you would with any other MySQL table.

It is also possible to specify whether an individual column is stored on disk or in memory by using a STORAGE clause as part of the column's definition in a CREATE TABLE or ALTER TABLE statement. STORAGE DISK causes the column to be stored on disk, and STORAGE MEMORY causes in-memory storage to be used. See Section 13.1.20, "CREATE TABLE Statement", for more information.

You can obtain information about the NDB disk data files and undo log files just created by querying the FILES table in the INFORMATION SCHEMA database, as shown here:

For more information and examples, see Section 26.3.15, "The INFORMATION\_SCHEMA FILES Table".

Indexing of columns implicitly stored on disk. For table dt\_1 as defined in the example just shown, only the dob and joined columns are stored on disk. This is because there are indexes on the id, last\_name, and first\_name columns, and so data belonging to these columns is stored in RAM. Only nonindexed columns can be held on disk; indexes and indexed column data continue to be stored in memory. This tradeoff between the use of indexes and conservation of RAM is something you must keep in mind as you design Disk Data tables.

You cannot add an index to a column that has been explicitly declared STORAGE DISK, without first changing its storage type to MEMORY; any attempt to do so fails with an error. A column which implicitly