# **External Table Creation Guide**

Please follow these simple steps to create external table on top of HDFS parquet data.

## 1. Run below script

/opt/jobs/CEM/hdfs\_platform/monitoring/scripts/manual/create\_external\_table.sh

## 2. Select Storage Layer

Display all available storage layers from hdfs. Choose appropriate one by entering number.

```
Available Storage Layers:
1. items
2. ldr
3. qos
4. sdm
5. stg
6. test_migration
7. usm
Enter your choice (1-7): 4
```

### 3. Select File Directory

Choose folder containing the parquet files you want to register as an external table.

```
Selected Storage Layer: sdm
Available File Directories:
1. items
2. cgr_ntwrk_stats
3. dly call traffic fct
4. dly cemfixed total_traffic_fct
dly_cstmr_ntwrk_fct
6. dly data throwpt dtl fct
7. dly data throwpt fct
8. dly_fup_type info
dly_iot_svcs_usg_pdp_fct
10. dly iot svcs usg tcp fct
11. dly roamers fct
12. dly sms fct
13. dly video streaming fct
14. dly vo wifi fct
dly_voip_call_fct
16. dly volte addl info
17. dly volte call fct
18. dly web brwsng fct
19. dly web brwsng fct new
20. dly wifi offloading fct
21. dt=2025-09-17
22. gos_dly_web_brwsng_fct
23. test1
Enter your choice (1-23): 12
```

#### 4. Choose Hive Database

Lists all hive databases. Pick your target schema for the table.

```
Selected File Directory: dly_sms_fct
Available Databases:
1. bi_onetime_team
2. ccex_reserved
3. ccex_rpt
4. default
5. dp_dfl_cem_edl
6. information_schema
7. prod_cem_ldr
8. prod_cem_sdm
9. prod_cem_sdm
9. prod_cem_stg
11. prod_usm
12. prod_usm
12. prod_usm_vew
13. qos
14. sys
15. test
16. tibco_test
Enter your choice (1-16): 15
```

#### 5. Enter Table Name

Provide a name for new table.

```
Selected Database: test
Enter Table Name: sms_fct_demo
```

#### 6. Schema Auto-Detection

Tool will do the following steps automatically:

- Find latest parquet file
- Extract schema and partition columns
- Generate external table DDL

## 7. Table Created & Repaired Successfully

External table has been created and partitions successfully repaired. If you wanna create another table then press **Y** otherwise **N**.

```
Selected Storage Layer: sdm

Selected File Directory: dly_sms_fct

Selected Database: test

Table Name: sms_fct_demo

HDFS Location: /user/cxpprod/prod/ccex//sdm/dly_sms_fct

Status: Created! & Repaired

Do you wanna create another External Table (Y/N): ■
```

### 8. Exit the Process

If you wish to exit external table creation process, simply press N

```
List of tables created:

1. prod_sdm.test.sms_fct_demo

Thanks for Using!
[stccemprod@cemsem-wk07.stc.corp manual]$
```

## **Tool Outputs**

As shown in the following screenshots, table has been created and partitions have been successfully repaired.



