

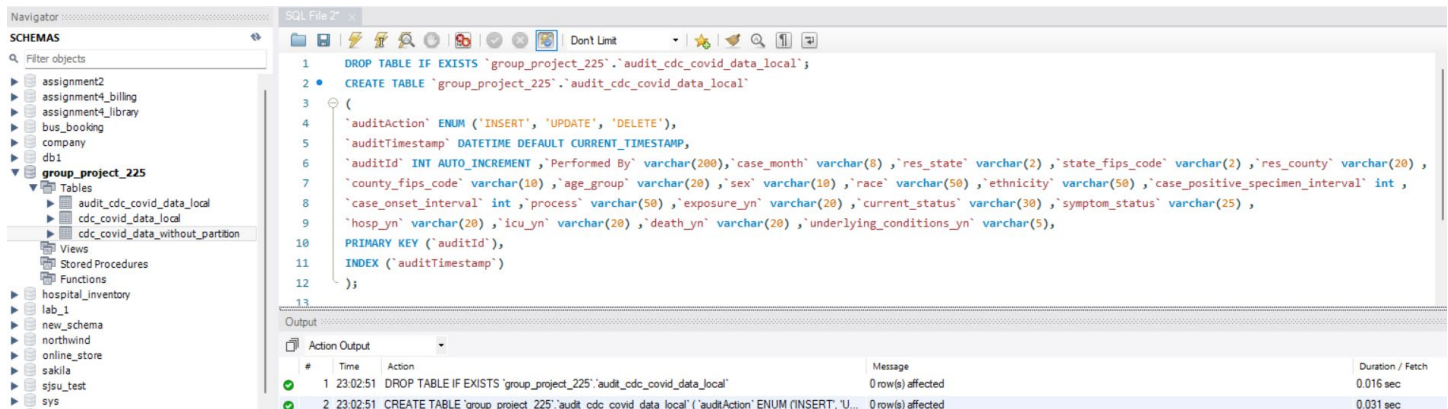
AUDIT TABLES, TRIGGERS – QUERIES & SCREENSHOTS

AUDIT TABLES WITH RESPECTIVE TRIGGERS

AUDIT_CDC_COVID_DATA_LOCAL

AUDIT TABLE CREATION

```
DROP TABLE IF EXISTS `group_project_225`.`audit_cdc_covid_data_local`;
CREATE TABLE `group_project_225`.`audit_cdc_covid_data_local`
(
    `auditAction` ENUM ('INSERT', 'UPDATE', 'DELETE'),
    `auditTimestamp` DATETIME DEFAULT CURRENT_TIMESTAMP,
    `auditId` INT AUTO_INCREMENT, `Performed By` varchar(200), `case_month` varchar(8), `res_state` varchar(2)
    , `state_fips_code` varchar(2), `res_county` varchar(20) ,
    `county_fips_code` varchar(10), `age_group` varchar(20) , `sex` varchar(10), `race` varchar(50), `ethnicity`
    varchar(50), `case_positive_specimen_interval` int ,
    `case_onset_interval` int , `process` varchar(50), `exposure_yn` varchar(20) , `current_status` varchar(30)
    , `symptom_status` varchar(25) ,
    `hosp_yn` varchar(20), `icu_yn` varchar(20), `death_yn` varchar(20), `underlying_conditions_yn` varchar(5),
    PRIMARY KEY (`auditId`),
    INDEX (`auditTimestamp`)
);
```

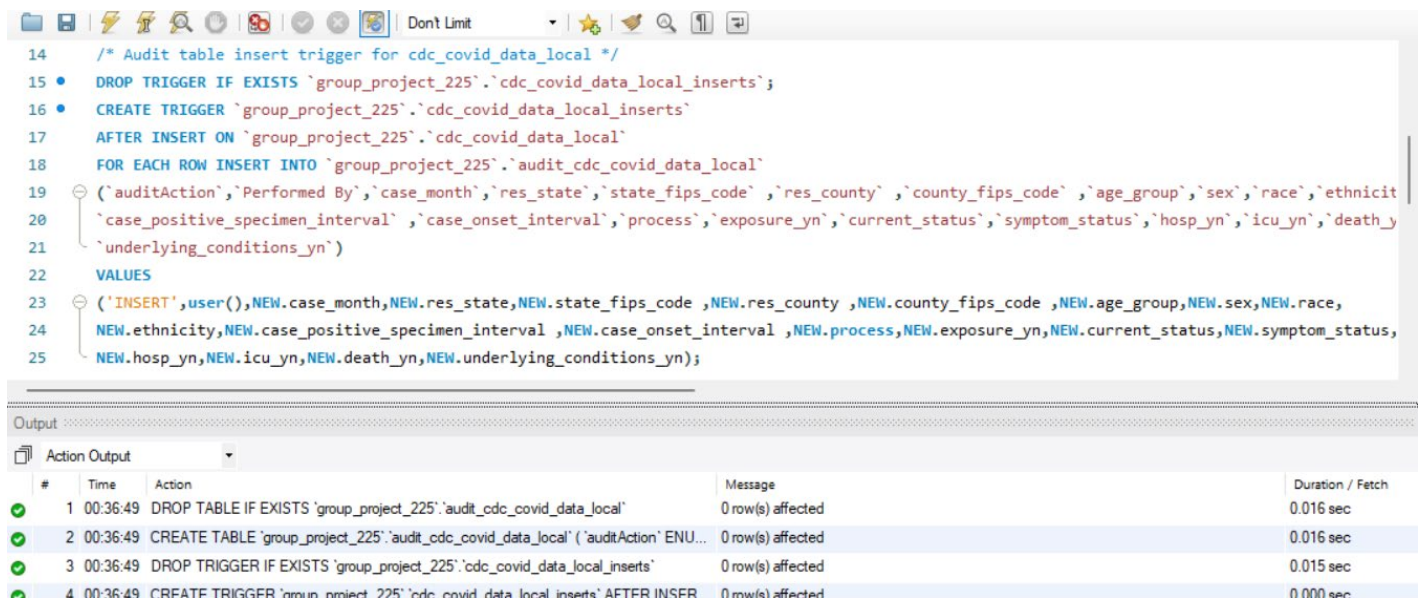


The screenshot displays a SQL IDE interface with a Navigator pane on the left and a main editor pane. The Navigator pane shows a tree structure of databases and tables, with 'group_project_225' expanded to show 'audit_cdc_covid_data_local'. The main editor pane contains the SQL script for creating the table. Below the script, the 'Output' pane shows the execution results.

#	Time	Action	Message	Duration / Fetch
1	23.02:51	DROP TABLE IF EXISTS 'group_project_225'.'audit_cdc_covid_data_local'	0 row(s) affected	0.016 sec
2	23.02:51	CREATE TABLE 'group_project_225'.'audit_cdc_covid_data_local' ('auditAction' ENUM ('INSERT', 'U...	0 row(s) affected	0.031 sec

INSERT TRIGGER CREATION:

```
DROP TRIGGER IF EXISTS `group_project_225`.`cdc_covid_data_local_inserts`;
CREATE TRIGGER `group_project_225`.`cdc_covid_data_local_inserts`
AFTER INSERT ON `group_project_225`.`cdc_covid_data_local`
FOR EACH ROW INSERT INTO `group_project_225`.`audit_cdc_covid_data_local`
(`auditAction`,`Performed By`,`case_month`,`res_state`,`state_fips_code`,`res_county`,`county_fips_code`,
`age_group`,`sex`,`race`,`ethnicity`,
`case_positive_specimen_interval`
,`case_onset_interval`,`process`,`exposure_yn`,`current_status`,`symptom_status`,`hosp_yn`,`icu_yn`,`death_yn`,
`underlying_conditions_yn`)VALUES
('INSERT',user(),NEW.case_month,NEW.res_state,NEW.state_fips_code ,NEW.res_county ,NEW.county_fips_code
,NEW.age_group,NEW.sex,NEW.race,
NEW.ethnicity,NEW.case_positive_specimen_interval ,NEW.case_onset_interval
,NEW.process,NEW.exposure_yn,NEW.current_status,NEW.symptom_status,
NEW.hosp_yn,NEW.icu_yn,NEW.death_yn,NEW.underlying_conditions_yn);
```



```
14  /* Audit table insert trigger for cdc_covid_data_local */
15  DROP TRIGGER IF EXISTS `group_project_225`.`cdc_covid_data_local_inserts`;
16  CREATE TRIGGER `group_project_225`.`cdc_covid_data_local_inserts`
17  AFTER INSERT ON `group_project_225`.`cdc_covid_data_local`
18  FOR EACH ROW INSERT INTO `group_project_225`.`audit_cdc_covid_data_local`
19  (`auditAction`,`Performed By`,`case_month`,`res_state`,`state_fips_code`,`res_county`,`county_fips_code`,`age_group`,`sex`,`race`,`ethnicit
20  `case_positive_specimen_interval`,`case_onset_interval`,`process`,`exposure_yn`,`current_status`,`symptom_status`,`hosp_yn`,`icu_yn`,`death_y
21  `underlying_conditions_yn`)
22  VALUES
23  ('INSERT',user(),NEW.case_month,NEW.res_state,NEW.state_fips_code ,NEW.res_county ,NEW.county_fips_code ,NEW.age_group,NEW.sex,NEW.race,
24  NEW.ethnicity,NEW.case_positive_specimen_interval ,NEW.case_onset_interval ,NEW.process,NEW.exposure_yn,NEW.current_status,NEW.symptom_status,
25  NEW.hosp_yn,NEW.icu_yn,NEW.death_yn,NEW.underlying_conditions_yn);
```

#	Time	Action	Message	Duration / Fetch
1	00:36:49	DROP TABLE IF EXISTS `group_project_225`.`audit_cdc_covid_data_local`	0 row(s) affected	0.016 sec
2	00:36:49	CREATE TABLE `group_project_225`.`audit_cdc_covid_data_local` (`auditAction` ENU...	0 row(s) affected	0.016 sec
3	00:36:49	DROP TRIGGER IF EXISTS `group_project_225`.`cdc_covid_data_local_inserts`	0 row(s) affected	0.015 sec
4	00:36:49	CREATE TRIGGER `group_project_225`.`cdc_covid_data_local_inserts` AFTER INSE...	0 row(s) affected	0.000 sec

UPDATE TRIGGER CREATION:

```
DROP TRIGGER IF EXISTS `group_project_225`.`cdc_covid_data_local_updates`;
CREATE TRIGGER `group_project_225`.`cdc_covid_data_local_updates`
AFTER UPDATE ON `group_project_225`.`cdc_covid_data_local`
FOR EACH ROW INSERT INTO `group_project_225`.`audit_cdc_covid_data_local`
(`auditAction`,`Performed By`,`case_month`,`res_state`,`state_fips_code`,`res_county`,`county_fips_code`,
`age_group`,`sex`,`race`,`ethnicity`,
`case_positive_specimen_interval`
,`case_onset_interval`,`process`,`exposure_yn`,`current_status`,`symptom_status`,`hosp_yn`,`icu_yn`,`death_yn`,
`underlying_conditions_yn`)VALUES
('UPDATE',user(),NEW.case_month,NEW.res_state,NEW.state_fips_code ,NEW.res_county ,NEW.county_fips_code
,NEW.age_group,NEW.sex,NEW.race,
NEW.ethnicity,NEW.case_positive_specimen_interval ,NEW.case_onset_interval
,NEW.process,NEW.exposure_yn,NEW.current_status,NEW.symptom_status,
NEW.hosp_yn,NEW.icu_yn,NEW.death_yn,NEW.underlying_conditions_yn);
```

```

27  /* Audit table update trigger for cdc_covid_data_local */
28  • DROP TRIGGER IF EXISTS `group_project_225`.`cdc_covid_data_local_updates`;
29  • CREATE TRIGGER `group_project_225`.`cdc_covid_data_local_updates`
30  AFTER UPDATE ON `group_project_225`.`cdc_covid_data_local`
31  FOR EACH ROW INSERT INTO `group_project_225`.`audit_cdc_covid_data_local`
32  (
33  `auditAction`,`Performed By`,`case_month`,`res_state`,`state_fips_code`,`res_county`,`county_fips_code`,`age_group`,`sex`,`race`,`ethnicity`,
34  `case_positive_specimen_interval`,`case_onset_interval`,`process`,`exposure_yn`,`current_status`,`symptom_status`,`hosp_yn`,`icu_yn`,`death_yn`,`underlying_conditions_yn`)
35  VALUES
36  (
37  ('UPDATE',user(),NEW.case_month,NEW.res_state,NEW.state_fips_code ,NEW.res_county ,NEW.county_fips_code ,NEW.age_group,NEW.sex,NEW.race,
38  NEW.ethnicity,NEW.case_positive_specimen_interval ,NEW.case_onset_interval ,NEW.process,NEW.exposure_yn,NEW.current_status,NEW.symptom_status,
  NEW.hosp_yn,NEW.icu_yn,NEW.death_yn,NEW.underlying_conditions_yn);

```

Output				
Action Output				
#	Time	Action	Message	Duration / Fetch
1	00:36:49	DROP TABLE IF EXISTS `group_project_225`.`audit_cdc_covid_data_local`	0 row(s) affected	0.016 sec
2	00:36:49	CREATE TABLE `group_project_225`.`audit_cdc_covid_data_local` (`auditAction` ENU...	0 row(s) affected	0.016 sec
3	00:36:49	DROP TRIGGER IF EXISTS `group_project_225`.`cdc_covid_data_local_inserts`	0 row(s) affected	0.015 sec
4	00:36:49	CREATE TRIGGER `group_project_225`.`cdc_covid_data_local_inserts` AFTER INSERT...	0 row(s) affected	0.000 sec
5	00:36:49	DROP TRIGGER IF EXISTS `group_project_225`.`cdc_covid_data_local_updates`	0 row(s) affected	0.016 sec
6	00:36:49	CREATE TRIGGER `group_project_225`.`cdc_covid_data_local_updates` AFTER UPD...	0 row(s) affected	0.016 sec

DELETE TRIGGER CREATION:

```

DROP TRIGGER IF EXISTS `group_project_225`.`cdc_covid_data_local_updates`;

CREATE TRIGGER `group_project_225`.`cdc_covid_data_local_updates`

AFTER UPDATE ON `group_project_225`.`cdc_covid_data_local`

FOR EACH ROW INSERT INTO `group_project_225`.`audit_cdc_covid_data_local`

(`auditAction`,`Performed By`,`case_month`,`res_state`,`state_fips_code`,`res_county`,`county_fips_code`
,`age_group`,`sex`,`race`,`ethnicity`,

`case_positive_specimen_interval`
,`case_onset_interval`,`process`,`exposure_yn`,`current_status`,`symptom_status`,`hosp_yn`,`icu_yn`,`death_yn`,`underlying_conditions_yn`)

VALUES

('UPDATE',user(),NEW.case_month,NEW.res_state,NEW.state_fips_code ,NEW.res_county
,NEW.county_fips_code ,NEW.age_group,NEW.sex,NEW.race,

NEW.ethnicity,NEW.case_positive_specimen_interval ,NEW.case_onset_interval
,NEW.process,NEW.exposure_yn,NEW.current_status,NEW.symptom_status,

NEW.hosp_yn,NEW.icu_yn,NEW.death_yn,NEW.underlying_conditions_yn);

```

```

40  /* Audit table delete trigger for cdc_covid_data_local */
41  • DROP TRIGGER IF EXISTS `group_project_225`.`cdc_covid_data_local_deletes`;
42  • CREATE TRIGGER `group_project_225`.`cdc_covid_data_local_deletes`
43  AFTER DELETE ON `group_project_225`.`cdc_covid_data_local`
44  FOR EACH ROW INSERT INTO `group_project_225`.`audit_cdc_covid_data_local`
45  ('auditAction','Performed By','case_month','res_state','state_fips_code','res_county','county_fips_code','age_group','sex','race','ethnicit
46  'case_onset_interval','process','exposure_yn','current_status','symptom_status','hosp_yn','icu_yn','death_yn','underlying_conditions_yn')
47  VALUES
48  ('DELETE',user(),OLD.case_month,OLD.res_state,OLD.state_fips_code ,OLD.res_county ,OLD.county_fips_code ,OLD.age_group,OLD.sex,OLD.race,OLD.et
49  OLD.case_positive_specimen_interval ,OLD.case_onset_interval ,OLD.process,OLD.exposure_yn,OLD.current_status,OLD.symptom_status,OLD.hosp_yn,OL
50  OLD.death_yn,OLD.underlying_conditions_yn);

```

Output

#	Time	Action	Message	Duration / Fetch
1	00:36:49	DROP TABLE IF EXISTS `group_project_225`.`audit_cdc_covid_data_local`	0 row(s) affected	0.016 sec
2	00:36:49	CREATE TABLE `group_project_225`.`audit_cdc_covid_data_local` ('auditAction' ENU...	0 row(s) affected	0.016 sec
3	00:36:49	DROP TRIGGER IF EXISTS `group_project_225`.`cdc_covid_data_local_inserts`	0 row(s) affected	0.015 sec
4	00:36:49	CREATE TRIGGER `group_project_225`.`cdc_covid_data_local_inserts` AFTER INSE...	0 row(s) affected	0.000 sec
5	00:36:49	DROP TRIGGER IF EXISTS `group_project_225`.`cdc_covid_data_local_updates`	0 row(s) affected	0.016 sec
6	00:36:49	CREATE TRIGGER `group_project_225`.`cdc_covid_data_local_updates` AFTER UPD...	0 row(s) affected	0.016 sec
7	00:36:49	DROP TRIGGER IF EXISTS `group_project_225`.`cdc_covid_data_local_deletes`	0 row(s) affected	0.000 sec
8	00:36:49	CREATE TRIGGER `group_project_225`.`cdc_covid_data_local_deletes` AFTER DELE...	0 row(s) affected	0.015 sec

AUDIT_CDC_COVID_DATA_WITHOUT PARTITION

AUDIT TABLE CREATION

```

DROP TABLE IF EXISTS `group_project_225`.`audit_cdc_covid_data_without_partition`;
CREATE TABLE `group_project_225`.`audit_cdc_covid_data_without_partition` (
  `auditAction` ENUM ('INSERT', 'UPDATE', 'DELETE'),
  `auditTimestamp` DATETIME DEFAULT CURRENT_TIMESTAMP,
  `auditId` INT AUTO_INCREMENT, `Performed By` varchar(200), `case_month` varchar(8), `res_state` varchar(2)
  , `state_fips_code` varchar(2), `res_county` varchar(20),
  `county_fips_code` varchar(10), `age_group` varchar(20), `sex` varchar(10), `race` varchar(50), `ethnicity`
  varchar(50), `case_positive_specimen_interval` int,
  `case_onset_interval` int, `process` varchar(50), `exposure_yn` varchar(20), `current_status` varchar(30)
  , `symptom_status` varchar(25),
  `hosp_yn` varchar(20), `icu_yn` varchar(20), `death_yn` varchar(20), `underlying_conditions_yn` varchar(5),
  PRIMARY KEY (`auditId`),
  INDEX (`auditTimestamp`));

```

Navigator

SQL File 2*

```

1  DROP TABLE IF EXISTS `group_project_225`.`audit_cdc_covid_data_without_partition`;
2  CREATE TABLE `group_project_225`.`audit_cdc_covid_data_without_partition`
3  (
4  `auditAction` ENUM ('INSERT', 'UPDATE', 'DELETE'),
5  `auditTimestamp` DATETIME DEFAULT CURRENT_TIMESTAMP,
6  `auditId` INT AUTO_INCREMENT, `Performed By` varchar(200), `case_month` varchar(8), `res_state` varchar(2), `state_fips_code` varchar(2), `res_county` varchar(20),
7  `county_fips_code` varchar(10), `age_group` varchar(20), `sex` varchar(10), `race` varchar(50), `ethnicity` varchar(50), `case_positive_specimen_interval` int,
8  `case_onset_interval` int, `process` varchar(50), `exposure_yn` varchar(20), `current_status` varchar(30), `symptom_status` varchar(25),
9  `hosp_yn` varchar(20), `icu_yn` varchar(20), `death_yn` varchar(20), `underlying_conditions_yn` varchar(5),
10 PRIMARY KEY (`auditId`),
11 INDEX (`auditTimestamp`))
12 );
13

```

Output

#	Time	Action	Message	Duration / Fetch
1	23:17:35	DROP TABLE IF EXISTS `group_project_225`.`audit_cdc_covid_data_without_partition`	0 row(s) affected	0.016 sec
2	23:17:35	CREATE TABLE `group_project_225`.`audit_cdc_covid_data_without_partition` ('auditAction' ENUM (I...	0 row(s) affected	0.016 sec

INSERT TRIGGER CREATION:

```
DROP TRIGGER IF EXISTS `group_project_225`.`cdc_covid_data_without_partition_inserts`;
CREATE TRIGGER `group_project_225`.`cdc_covid_data_without_partition_inserts`
AFTER INSERT ON `group_project_225`.`cdc_covid_data_without_partition`
FOR EACH ROW INSERT INTO `group_project_225`.`audit_cdc_covid_data_without_partition`
(`auditAction`,`Performed By`,`case_month`,`res_state`,`state_fips_code`,`res_county`,`county_fips_code`
,`age_group`,`sex`,`race`,`ethnicity`,
`case_positive_specimen_interval`
,`case_onset_interval`,`process`,`exposure_yn`,`current_status`,`symptom_status`,`hosp_yn`,`icu_yn`,`death_yn`,
`underlying_conditions_yn`) VALUES
('INSERT',user(),NEW.case_month,NEW.res_state,NEW.state_fips_code ,NEW.res_county ,NEW.county_fips_code
,NEW.age_group,NEW.sex,NEW.race,
NEW.ethnicity,NEW.case_positive_specimen_interval ,NEW.case_onset_interval
,NEW.process,NEW.exposure_yn,NEW.current_status,NEW.symptom_status,
NEW.hosp_yn,NEW.icu_yn,NEW.death_yn,NEW.underlying_conditions_yn);
```

```
16 • DROP TRIGGER IF EXISTS `group_project_225`.`cdc_covid_data_without_partition_inserts`;
17 • CREATE TRIGGER `group_project_225`.`cdc_covid_data_without_partition_inserts`
18 AFTER INSERT ON `group_project_225`.`cdc_covid_data_without_partition`
19 FOR EACH ROW INSERT INTO `group_project_225`.`audit_cdc_covid_data_without_partition`
20 (`auditAction`,`Performed By`,`case_month`,`res_state`,`state_fips_code`,`res_county`,`county_fips_code`,`age_group`,`sex`,`race`,`ethnicit
21 `case_positive_specimen_interval`,`case_onset_interval`,`process`,`exposure_yn`,`current_status`,`symptom_status`,`hosp_yn`,`icu_yn`,`death_y
22 `underlying_conditions_yn`)
23 VALUES
24 ('INSERT',user(),NEW.case_month,NEW.res_state,NEW.state_fips_code ,NEW.res_county ,NEW.county_fips_code ,NEW.age_group,NEW.sex,NEW.race,
25 NEW.ethnicity,NEW.case_positive_specimen_interval ,NEW.case_onset_interval ,NEW.process,NEW.exposure_yn,NEW.current_status,NEW.symptom_status,
26 NEW.hosp_yn,NEW.icu_yn,NEW.death_yn,NEW.underlying_conditions_yn);
27
```

Output				
Action Output				
#	Time	Action	Message	Duration / Fetch
✓ 1	00:39:47	DROP TABLE IF EXISTS `group_project_225`.`audit_cdc_covid_data_without_partition`	0 row(s) affected	0.031 sec
✓ 2	00:39:47	CREATE TABLE `group_project_225`.`audit_cdc_covid_data_without_partition` (`auditA...	0 row(s) affected	0.016 sec
✓ 3	00:39:47	DROP TRIGGER IF EXISTS `group_project_225`.`cdc_covid_data_without_partition_in...	0 row(s) affected	0.000 sec
✓ 4	00:39:47	CREATE TRIGGER `group_project_225`.`cdc_covid_data_without_partition_inserts` AF...	0 row(s) affected	0.016 sec

UPDATE TRIGGER CREATION:

```
DROP TRIGGER IF EXISTS `group_project_225`.`cdc_covid_data_without_partition_updates`;
CREATE TRIGGER `group_project_225`.`cdc_covid_data_without_partition_updates`
AFTER UPDATE ON `group_project_225`.`cdc_covid_data_without_partition`
FOR EACH ROW INSERT INTO `group_project_225`.`audit_cdc_covid_data_without_partition`
(`auditAction`,`Performed By`,`case_month`,`res_state`,`state_fips_code`,`res_county`,`county_fips_code`
,`age_group`,`sex`,`race`,`ethnicity`,
`case_positive_specimen_interval`
,`case_onset_interval`,`process`,`exposure_yn`,`current_status`,`symptom_status`,`hosp_yn`,`icu_yn`,`death_yn`,
`underlying_conditions_yn`) VALUES
('UPDATE',user(),NEW.case_month,NEW.res_state,NEW.state_fips_code ,NEW.res_county ,NEW.county_fips_code
,NEW.age_group,NEW.sex,NEW.race,
NEW.ethnicity,NEW.case_positive_specimen_interval ,NEW.case_onset_interval
,NEW.process,NEW.exposure_yn,NEW.current_status,NEW.symptom_status,
NEW.hosp_yn,NEW.icu_yn,NEW.death_yn,NEW.underlying_conditions_yn);
```

```

28  /* Audit table update trigger for cdc_coid_data_without_partition*/
29  • DROP TRIGGER IF EXISTS `group_project_225`.`cdc_covid_data_without_partition_updates`;
30  • CREATE TRIGGER `group_project_225`.`cdc_covid_data_without_partition_updates`
31  AFTER UPDATE ON `group_project_225`.`cdc_covid_data_without_partition`
32  FOR EACH ROW INSERT INTO `group_project_225`.`audit_cdc_covid_data_without_partition`
33  ('auditAction','Performed By','case_month','res_state','state_fips_code','res_county','county_fips_code','age_group','sex','race','ethnicit
34  'case_positive_specimen_interval','case_onset_interval','process','exposure_yn','current_status','symptom_status','hosp_yn','icu_yn','death_y
35  'underlying_conditions_yn')
36  VALUES
37  ('UPDATE',user(),NEW.case_month,NEW.res_state,NEW.state_fips_code,NEW.res_county,NEW.county_fips_code,NEW.age_group,NEW.sex,NEW.race,
38  NEW.ethnicity,NEW.case_positive_specimen_interval,NEW.case_onset_interval,NEW.process,NEW.exposure_yn,NEW.current_status,NEW.symptom_status,
39  NEW.hosp_yn,NEW.icu_yn,NEW.death_yn,NEW.underlying_conditions_yn);

```

Output

#	Time	Action	Message	Duration / Fetch
1	00:39:47	DROP TABLE IF EXISTS `group_project_225`.`audit_cdc_covid_data_without_partition`	0 row(s) affected	0.031 sec
2	00:39:47	CREATE TABLE `group_project_225`.`audit_cdc_covid_data_without_partition` ('auditA...	0 row(s) affected	0.016 sec
3	00:39:47	DROP TRIGGER IF EXISTS `group_project_225`.`cdc_covid_data_without_partition_in...	0 row(s) affected	0.000 sec
4	00:39:47	CREATE TRIGGER `group_project_225`.`cdc_covid_data_without_partition_inserts` AF...	0 row(s) affected	0.016 sec
5	00:39:47	DROP TRIGGER IF EXISTS `group_project_225`.`cdc_covid_data_without_partition_up...	0 row(s) affected	0.000 sec
6	00:39:47	CREATE TRIGGER `group_project_225`.`cdc_covid_data_without_partition_updates` A...	0 row(s) affected	0.015 sec

DELETE TRIGGER CREATION:

```

DROP TRIGGER IF EXISTS `group_project_225`.`cdc_covid_data_without_partition_deletes`;
CREATE TRIGGER `group_project_225`.`cdc_covid_data_without_partition_deletes`
AFTER DELETE ON `group_project_225`.`cdc_covid_data_without_partition`
FOR EACH ROW INSERT INTO `group_project_225`.`audit_cdc_covid_data_without_partition`
('auditAction','Performed By','case_month','res_state','state_fips_code','res_county','county_fips_code'
,'age_group','sex','race','ethnicity','case_positive_specimen_interval',
'case_onset_interval','process','exposure_yn','current_status','symptom_status','hosp_yn','icu_yn','death_yn','und
erlying_conditions_yn') VALUES
('DELETE',user(),OLD.case_month,OLD.res_state,OLD.state_fips_code,OLD.res_county,OLD.county_fips_code
,OLD.age_group,OLD.sex,OLD.race,OLD.ethnicity,
OLD.case_positive_specimen_interval,OLD.case_onset_interval
,OLD.process,OLD.exposure_yn,OLD.current_status,OLD.symptom_status,OLD.hosp_yn,OLD.icu_yn,
OLD.death_yn,OLD.underlying_conditions_yn);

```

```

41  /* Audit table delete trigger for cdc_coid_data_without_partition*/
42  • DROP TRIGGER IF EXISTS `group_project_225`.`cdc_covid_data_without_partition_deletes`;
43  • CREATE TRIGGER `group_project_225`.`cdc_covid_data_without_partition_deletes`
44  AFTER DELETE ON `group_project_225`.`cdc_covid_data_without_partition`
45  FOR EACH ROW INSERT INTO `group_project_225`.`audit_cdc_covid_data_without_partition`
46  ('auditAction','Performed By','case_month','res_state','state_fips_code','res_county','county_fips_code','age_group','sex','race','ethnicit
47  'case_onset_interval','process','exposure_yn','current_status','symptom_status','hosp_yn','icu_yn','death_yn','underlying_conditions_yn')
48  VALUES
49  ('DELETE',user(),OLD.case_month,OLD.res_state,OLD.state_fips_code,OLD.res_county,OLD.county_fips_code,OLD.age_group,OLD.sex,OLD.race,OLD.et
50  OLD.case_positive_specimen_interval,OLD.case_onset_interval,OLD.process,OLD.exposure_yn,OLD.current_status,OLD.symptom_status,OLD.hosp_yn,OL
51  OLD.death_yn,OLD.underlying_conditions_yn);
52

```

Output

#	Time	Action	Message	Duration / Fetch
1	00:39:47	DROP TABLE IF EXISTS `group_project_225`.`audit_cdc_covid_data_without_partition`	0 row(s) affected	0.031 sec
2	00:39:47	CREATE TABLE `group_project_225`.`audit_cdc_covid_data_without_partition` ('auditA...	0 row(s) affected	0.016 sec
3	00:39:47	DROP TRIGGER IF EXISTS `group_project_225`.`cdc_covid_data_without_partition_in...	0 row(s) affected	0.000 sec
4	00:39:47	CREATE TRIGGER `group_project_225`.`cdc_covid_data_without_partition_inserts` AF...	0 row(s) affected	0.016 sec
5	00:39:47	DROP TRIGGER IF EXISTS `group_project_225`.`cdc_covid_data_without_partition_up...	0 row(s) affected	0.000 sec
6	00:39:47	CREATE TRIGGER `group_project_225`.`cdc_covid_data_without_partition_updates` A...	0 row(s) affected	0.015 sec
7	00:39:47	DROP TRIGGER IF EXISTS `group_project_225`.`cdc_covid_data_without_partition_de...	0 row(s) affected	0.000 sec
8	00:39:47	CREATE TRIGGER `group_project_225`.`cdc_covid_data_without_partition_deletes` AF...	0 row(s) affected	0.016 sec

TESTING AUDIT TABLE ENTRIES – CDC_COVID_DATA_LOCAL

ENTRIES MADE INTO CDC_COVID_DATA_LOCAL

```
insert into group_project_225.cdc_covid_data_local values('2020-12','TN','47','NA','NA','0 - 17 years','Female','White','Non-Hispanic/Latino','0','0','Missing','Missing','Laboratory-confirmed case','Symptomatic','No','Missing','Missing','');
```

```
insert into group_project_225.cdc_covid_data_local values('2020-12','TN','47','NA','NA','0 - 17 years','Female','White','Non-Hispanic/Latino','1','0','Missing','Missing','Probable Case','Symptomatic','No','Missing','Missing','');
```

```
update group_project_225.cdc_covid_data_local set sex = 'male'where case_month = '2020-12';
```

```
delete from group_project_225.cdc_covid_data_local where case_month='2020-12'
```

```
1 • set sql_safe_updates=0;
2 • insert into group_project_225.cdc_covid_data_local values('2020-12','TN','47','NA','NA','0 - 17 years','Female','White','Non-Hispanic/Latino','0
3 • insert into group_project_225.cdc_covid_data_local values('2020-12','TN','47','NA','NA','0 - 17 years','Female','White','Non-Hispanic/Latino','1
4 • update group_project_225.cdc_covid_data_local set sex = 'male'where case_month = '2020-12';
5 • delete from group_project_225.cdc_covid_data_local where case_month='2020-12'
```

Output				
Action Output				
#	Time	Action	Message	Duration / Fetch
✓ 1	00:47:25	set sql_safe_updates=0	0 row(s) affected	0.000 sec
✓ 2	00:47:25	insert into group_project_225.cdc_covid_data_local values('2020-12','TN','47','NA','NA','...	1 row(s) affected	0.015 sec
✓ 3	00:47:25	insert into group_project_225.cdc_covid_data_local values('2020-12','TN','47','NA','NA','...	1 row(s) affected	0.000 sec
✓ 4	00:47:25	update group_project_225.cdc_covid_data_local set sex = 'male'where case_month = '2...	2 row(s) affected Rows matched: 2 Changed: 2 Warnings: 0	4.063 sec
✓ 5	00:47:29	delete from group_project_225.cdc_covid_data_local where case_month='2020-12'	2 row(s) affected	4.093 sec

CHECKING THE AUDIT TABLE FOR ENTRY LOG

```
select * from group_project_225.audit_cdc_covid_data_local
```

Navigator

SCHEMAS

- assignment2
- assignment4_billing
- assignment4_library
- bus_booking
- company
- db1
- group_project_225
 - audit_cdc_covid_data_without_partition
 - audit_cdc_covid_data_local
 - cdc_covid_data_local
 - cdc_covid_data_without_partition
- hospital_inventory
- lab_1
- new_schema
- northwind
- online_store
- sakila
- sjsu_test

Information

Schema: assignment2

Query 1

```
1 select * from group_project_225.audit_cdc_covid_data_local
```

auditAction	auditTimestamp	auditId	Performed By	case_month	res_state	state_fips_code	res_county	county_fips_code	age_group	sex	race	ethnicity
INSERT	2022-05-08 00:45:49	1	root@localhost	2020-12	TN	47	NA	NA	0 - 17 years	Female	White	Non-Hispanic/L
INSERT	2022-05-08 00:46:17	2	root@localhost	2020-12	TN	47	NA	NA	0 - 17 years	Female	White	Non-Hispanic/L
DELETE	2022-05-08 00:47:12	3	root@localhost	2020-12	TN	47	NA	NA	0 - 17 years	Female	White	Non-Hispanic/L
DELETE	2022-05-08 00:47:12	4	root@localhost	2020-12	TN	47	NA	NA	0 - 17 years	Female	White	Non-Hispanic/L
INSERT	2022-05-08 00:47:25	5	root@localhost	2020-12	TN	47	NA	NA	0 - 17 years	Female	White	Non-Hispanic/L
INSERT	2022-05-08 00:47:25	6	root@localhost	2020-12	TN	47	NA	NA	0 - 17 years	Female	White	Non-Hispanic/L
UPDATE	2022-05-08 00:47:25	7	root@localhost	2020-12	TN	47	NA	NA	0 - 17 years	male	White	Non-Hispanic/L
UPDATE	2022-05-08 00:47:25	8	root@localhost	2020-12	TN	47	NA	NA	0 - 17 years	male	White	Non-Hispanic/L
DELETE	2022-05-08 00:47:29	9	root@localhost	2020-12	TN	47	NA	NA	0 - 17 years	male	White	Non-Hispanic/L
DELETE	2022-05-08 00:47:29	10	root@localhost	2020-12	TN	47	NA	NA	0 - 17 years	male	White	Non-Hispanic/L

d_data_local 1 x

Output

#	Time	Action	Message	Duration / Fetch
✓ 1	00:50:33	select * from group_project_225.audit_cdc_covid_data_local	10 row(s) returned	0.000 sec / 0.000 sec

TESTING AUDIT TABLE ENTRIES – CDC_COVID_DATA_WITHOUT_PARTITION

ENTRIES MADE INTO CDC_COVID_DATA_WITHOUT_PARTITION

```
insert into group_project_225.cdc_covid_data_without_partition values('2020-12','TN','47','NA','NA','0 - 17 years','Female','White','Non-Hispanic/Latino','0','0','Missing','Missing','Laboratory-confirmed case','Symptomatic','No','Missing','Missing','');
```

```
insert into group_project_225.cdc_covid_data_without_partition values('2020-12','TN','47','NA','NA','0 - 17 years','Female','White','Non-Hispanic/Latino','1','0','Missing','Missing','Probable Case','Symptomatic','No','Missing','Missing','');
```

```
update group_project_225.cdc_covid_data_without_partition set sex = 'male' where case_month = '2020-12';
```

```
delete from group_project_225.cdc_covid_data_without_partition where case_month='2020-12'
```

SQL Script:

```
1 set sql_safe_updates=0;
2 insert into group_project_225.cdc_covid_data_without_partition values('2020-12','TN','47','NA','NA','0 - 17 years','Female','White','Non-Hispanic/Latino','0','0','Missing','Missing','Laboratory-confirmed case','Symptomatic','No','Missing','Missing','');
3 insert into group_project_225.cdc_covid_data_without_partition values('2020-12','TN','47','NA','NA','0 - 17 years','Female','White','Non-Hispanic/Latino','1','0','Missing','Missing','Probable Case','Symptomatic','No','Missing','Missing','');
4 update group_project_225.cdc_covid_data_without_partition set sex = 'male' where case_month = '2020-12';
5 delete from group_project_225.cdc_covid_data_without_partition where case_month='2020-12'
```

Output:

#	Time	Action	Message	Duration / Fetch
1	00:55:06	set sql_safe_updates=0	0 row(s) affected	0.000 sec
2	00:55:06	insert into group_project_225.cdc_covid_data_without_partition values('2020-12','TN','47','NA','NA','0 - 17 years','Female','White','Non-Hispanic/Latino','0','0','Missing','Missing','Laboratory-confirmed case','Symptomatic','No','Missing','Missing','');	1 row(s) affected	0.016 sec
3	00:55:06	insert into group_project_225.cdc_covid_data_without_partition values('2020-12','TN','47','NA','NA','0 - 17 years','Female','White','Non-Hispanic/Latino','1','0','Missing','Missing','Probable Case','Symptomatic','No','Missing','Missing','');	1 row(s) affected	0.000 sec
4	00:55:06	update group_project_225.cdc_covid_data_without_partition set sex = 'male' where case_month = '2020-12';	2 row(s) affected Rows matched: 2 Changed: 2 Warnings: 0	3.750 sec
5	00:55:09	delete from group_project_225.cdc_covid_data_without_partition where case_month='2020-12'	2 row(s) affected	3.765 sec

CHECKING THE AUDIT TABLE FOR ENTRY LOG

```
select * from group_project_225.audit_cdc_covid_data_without_partition
```

SQL Query:

```
1 select * from group_project_225.audit_cdc_covid_data_without_partition
```

Result Grid:

auditAction	auditTimestamp	auditId	Performed By	case_month	res_state	state_fips_code	res_county	county_fips_code	age_group	sex	race	ethnicity
INSERT	2022-05-08 00:55:06	1	root@localhost	2020-12	TN	47	NA	NA	0 - 17 years	Female	White	Non-Hispanic/L
INSERT	2022-05-08 00:55:06	2	root@localhost	2020-12	TN	47	NA	NA	0 - 17 years	Female	White	Non-Hispanic/L
UPDATE	2022-05-08 00:55:06	3	root@localhost	2020-12	TN	47	NA	NA	0 - 17 years	male	White	Non-Hispanic/L
UPDATE	2022-05-08 00:55:06	4	root@localhost	2020-12	TN	47	NA	NA	0 - 17 years	male	White	Non-Hispanic/L
DELETE	2022-05-08 00:55:09	5	root@localhost	2020-12	TN	47	NA	NA	0 - 17 years	male	White	Non-Hispanic/L
DELETE	2022-05-08 00:55:09	6	root@localhost	2020-12	TN	47	NA	NA	0 - 17 years	male	White	Non-Hispanic/L

Output:

#	Time	Action	Message	Duration / Fetch
1	00:56:38	select * from group_project_225.audit_cdc_covid_data_without_partition	6 row(s) returned	0.000 sec / 0.000 sec

<End of document>

Submitted by : Gayathri Sundareshwar , Keerthana Gopikrishnan and Deepasha Jenamani

7th May 2022