Case Study-03

Construct an ER diagram for a car insurance company whose customers own one or more cars.Each car has associated with a zero to any of recorded accidents

Case study
group-09

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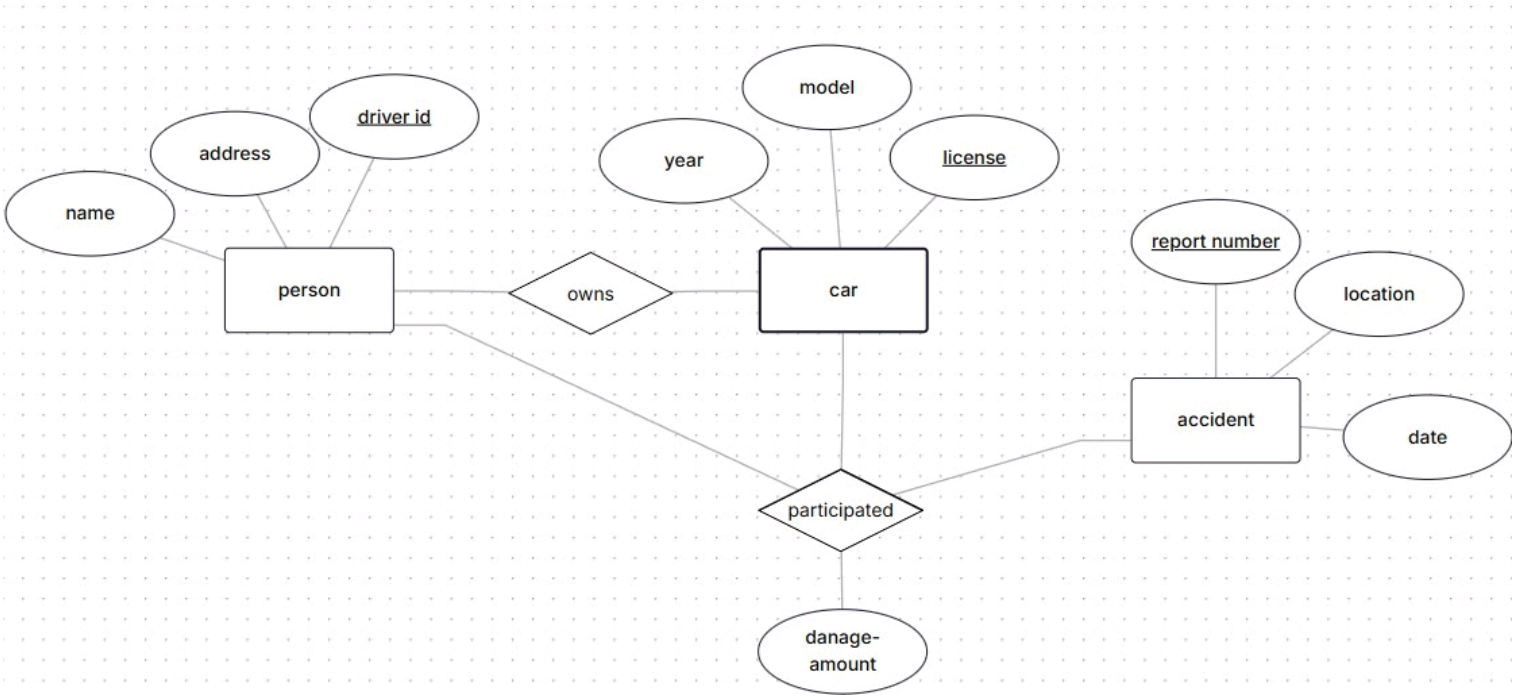

model
driver id
address
year
license
name
report number
location
person
owns
car
accident
date
participated
danage-
amount

```
mysql> use case_study;
Database changed
mysql> -- Table for person
mysql> CREATE TABLE person (
    ->     driver_id INT PRIMARY KEY,
    ->     name VARCHAR(100),
    ->     address VARCHAR(255)
    -> );
Query OK, 0 rows affected (0.06 sec)

mysql>
mysql> -- Table for car
mysql> CREATE TABLE car (
    ->     license VARCHAR(20) PRIMARY KEY,
    ->     model VARCHAR(50),
    ->     year INT
    -> );
Query OK, 0 rows affected (0.02 sec)

mysql>
mysql> -- Table for accident
mysql> CREATE TABLE accident (
    ->     report_number INT PRIMARY KEY,
    ->     date DATE,
    ->     location VARCHAR(100)
    -> );
Query OK, 0 rows affected (0.03 sec)

mysql>
mysql> -- Table for participated (relationship between person, car, and accident)
mysql> CREATE TABLE participated (
    ->     driver_id INT,
    ->     license VARCHAR(20),
    ->     report_number INT,
    ->     damage_amount DECIMAL(10,2),
    ->     PRIMARY KEY (driver_id, license, report_number),
    ->     FOREIGN KEY (driver_id) REFERENCES person(driver_id),
    ->     FOREIGN KEY (license) REFERENCES car(license),
    ->     FOREIGN KEY (report_number) REFERENCES accident(report_number)
    -> );
Query OK, 0 rows affected (0.06 sec)
```

```
mysql> DESC PERSON;
+-----------+--------------+------+-----+---------+-------+
| Field     | Type         | Null | Key | Default | Extra |
+-----------+--------------+------+-----+---------+-------+
| driver_id | int          | NO   | PRI | NULL    |       |
| name      | varchar(100) | YES  |     | NULL    |       |
| address   | varchar(255) | YES  |     | NULL    |       |
+-----------+--------------+------+-----+---------+-------+
3 rows in set (0.04 sec)

mysql> DESC CAR;
+---------+-------------+------+-----+---------+-------+
| Field   | Type        | Null | Key | Default | Extra |
+---------+-------------+------+-----+---------+-------+
| license | varchar(20) | NO   | PRI | NULL    |       |
| model   | varchar(50) | YES  |     | NULL    |       |
| year    | int         | YES  |     | NULL    |       |
+---------+-------------+------+-----+---------+-------+
3 rows in set (0.00 sec)

mysql> DESC ACCIDENT;
+---------------+--------------+------+-----+---------+-------+
| Field         | Type         | Null | Key | Default | Extra |
+---------------+--------------+------+-----+---------+-------+
| report_number | int          | NO   | PRI | NULL    |       |
| date          | date         | YES  |     | NULL    |       |
| location      | varchar(100) | YES  |     | NULL    |       |
+---------------+--------------+------+-----+---------+-------+
3 rows in set (0.03 sec)

mysql> DESC PARTICIPATED;
+---------------+---------------+------+-----+---------+-------+
| Field         | Type          | Null | Key | Default | Extra |
+---------------+---------------+------+-----+---------+-------+
| driver_id     | int           | NO   | PRI | NULL    |       |
| license       | varchar(20)   | NO   | PRI | NULL    |       |
| report_number | int           | NO   | PRI | NULL    |       |
| damage_amount | decimal(10,2) | YES  |     | NULL    |       |
+---------------+---------------+------+-----+---------+-------+
4 rows in set (0.01 sec)
```

```
mysql> -- Insert into person table
mysql> INSERT INTO person (driver_id, name, address) VALUES
    -> (101, 'Amit Sharma', 'Delhi'),
    -> (102, 'Priya Mehta', 'Mumbai'),
    -> (103, 'Ravi Kumar', 'Hyderabad'),
    -> (104, 'Sneha Reddy', 'Chennai'),
    -> (105, 'Karan Singh', 'Bangalore');
Query OK, 5 rows affected (0.04 sec)
Records: 5  Duplicates: 0  Warnings: 0

mysql>
mysql> -- Insert into car table
mysql> INSERT INTO car (license, model, year) VALUES
    -> ('MH12AB1234', 'Honda City', 2018),
    -> ('DL8CAF4321', 'Hyundai i20', 2020),
    -> ('TS09XY9876', 'Maruti Swift', 2017),
    -> ('KA03MN4567', 'Toyota Innova', 2019),
    -> ('TN10PQ6789', 'Ford EcoSport', 2021);
Query OK, 5 rows affected (0.01 sec)
Records: 5  Duplicates: 0  Warnings: 0

mysql>
mysql> -- Insert into accident table
mysql> INSERT INTO accident (report_number, date, location) VALUES
    -> (201, '2023-01-15', 'Delhi'),
    -> (202, '2023-03-22', 'Mumbai'),
    -> (203, '2023-06-10', 'Hyderabad'),
    -> (204, '2023-08-05', 'Chennai'),
    -> (205, '2023-11-30', 'Bangalore');
Query OK, 5 rows affected (0.01 sec)
Records: 5  Duplicates: 0  Warnings: 0

mysql>
mysql> -- Insert into participated table
mysql> INSERT INTO participated (driver_id, license, report_number, damage_amount) VALUES
    -> (101, 'MH12AB1234', 201, 15000.00),
    -> (102, 'DL8CAF4321', 202, 8000.50),
    -> (103, 'TS09XY9876', 203, 12000.75),
    -> (104, 'KA03MN4567', 204, 5000.00),
    -> (105, 'TN10PQ6789', 205, 9500.25);
Query OK, 5 rows affected (0.01 sec)
Records: 5  Duplicates: 0  Warnings: 0
```

```
mysql> SELECT * FROM CAR;
+------------+---------------+------+
| license    | model         | year |
+------------+---------------+------+
| DL8CAF4321 | Hyundai i20   | 2020 |
| KA03MN4567 | Toyota Innova | 2019 |
| MH12AB1234 | Honda City    | 2018 |
| TN10PQ6789 | Ford EcoSport | 2021 |
| TS09XY9876 | Maruti Swift  | 2017 |
+------------+---------------+------+
5 rows in set (0.00 sec)

mysql> SELECT * FROM PERSON;
+-----------+-------------+-----------+
| driver_id | name        | address   |
+-----------+-------------+-----------+
|       101 | Amit Sharma | Delhi     |
|       102 | Priya Mehta | Mumbai    |
|       103 | Ravi Kumar  | Hyderabad |
|       104 | Sneha Reddy | Chennai   |
|       105 | Karan Singh | Bangalore |
+-----------+-------------+-----------+
5 rows in set (0.00 sec)

mysql> SELECT * FROM ACCIDENT;
+---------------+------------+-----------+
| report_number | date       | location  |
+---------------+------------+-----------+
|           201 | 2023-01-15 | Delhi     |
|           202 | 2023-03-22 | Mumbai    |
|           203 | 2023-06-10 | Hyderabad |
|           204 | 2023-08-05 | Chennai   |
|           205 | 2023-11-30 | Bangalore |
+---------------+------------+-----------+
5 rows in set (0.00 sec)

mysql> SELECT * FROM PARTICIPATED;
+-----------+------------+---------------+---------------+
| driver_id | license    | report_number | damage_amount |
+-----------+------------+---------------+---------------+
|       101 | MH12AB1234 |           201 |      15000.00 |
|       102 | DL8CAF4321 |           202 |       8000.50 |
|       103 | TS09XY9876 |           203 |      12000.75 |
|       104 | KA03MN4567 |           204 |       5000.00 |
|       105 | TN10PQ6789 |           205 |       9500.25 |
+-----------+------------+---------------+---------------+
5 rows in set (0.00 sec)
```

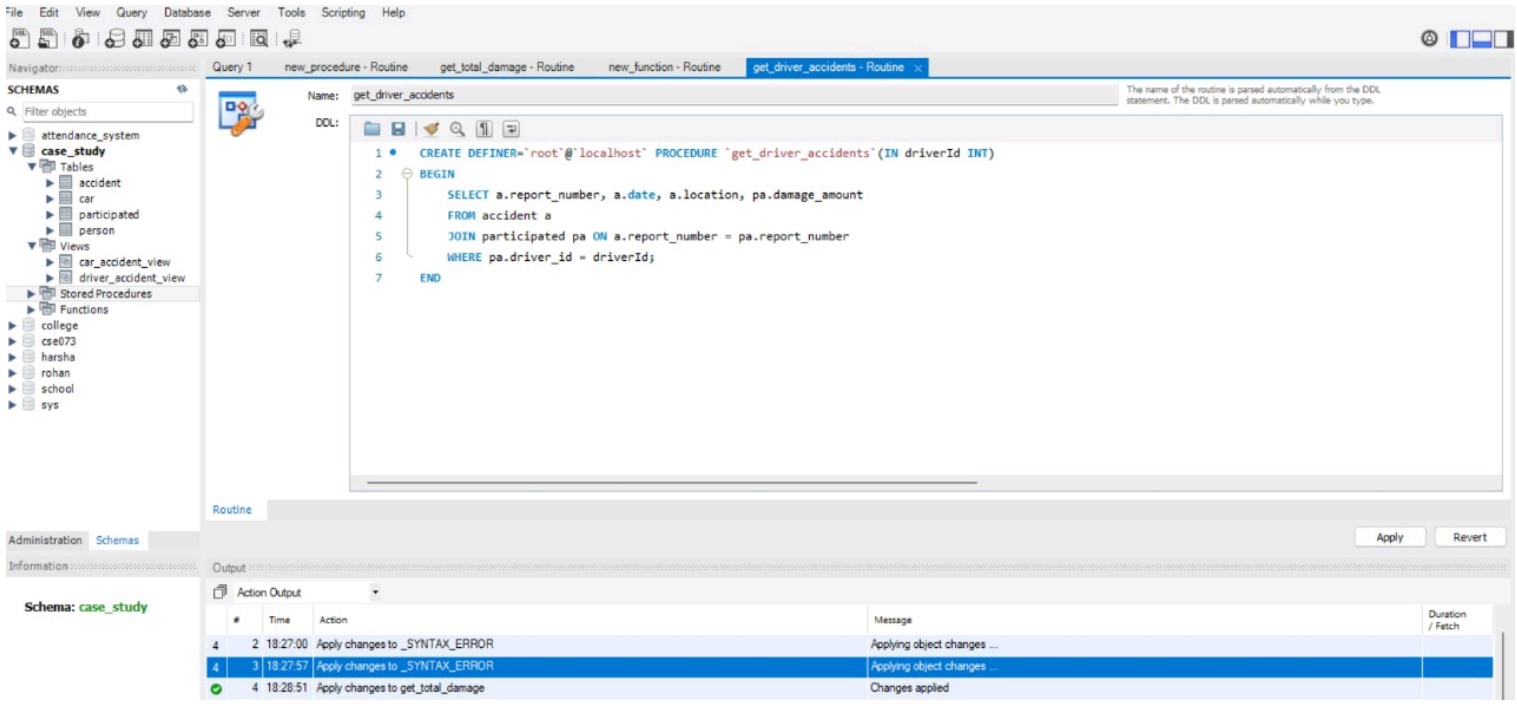
```
mysql> -- 1. List driver names with their cars involved in accidents
mysql> SELECT p.name, c.model, c.year
    -> FROM person p
    -> JOIN participated pa ON p.driver_id = pa.driver_id
    -> JOIN car c ON pa.license = c.license;
+-------------+---------------+------+
| name        | model         | year |
+-------------+---------------+------+
| Amit Sharma | Honda City    | 2018 |
| Priya Mehta | Hyundai i20   | 2020 |
| Ravi Kumar  | Maruti Swift  | 2017 |
| Sneha Reddy | Toyota Innova | 2019 |
| Karan Singh | Ford EcoSport | 2021 |
+-------------+---------------+------+
5 rows in set (0.00 sec)

mysql> -- 2. Show accident details with driver and damage amount
mysql> SELECT a.report_number, a.date, a.location, p.name, pa.damage_amount
    -> FROM accident a
    -> JOIN participated pa ON a.report_number = pa.report_number
    -> JOIN person p ON pa.driver_id = p.driver_id;
+---------------+------------+-----------+-------------+---------------+
| report_number | date       | location  | name        | damage_amount |
+---------------+------------+-----------+-------------+---------------+
|           201 | 2023-01-15 | Delhi     | Amit Sharma |      15000.00 |
|           202 | 2023-03-22 | Mumbai    | Priya Mehta |       8000.50 |
|           203 | 2023-06-10 | Hyderabad | Ravi Kumar  |      12000.75 |
|           204 | 2023-08-05 | Chennai   | Sneha Reddy |       5000.00 |
|           205 | 2023-11-30 | Bangalore | Karan Singh |       9500.25 |
+---------------+------------+-----------+-------------+---------------+
5 rows in set (0.00 sec)
```

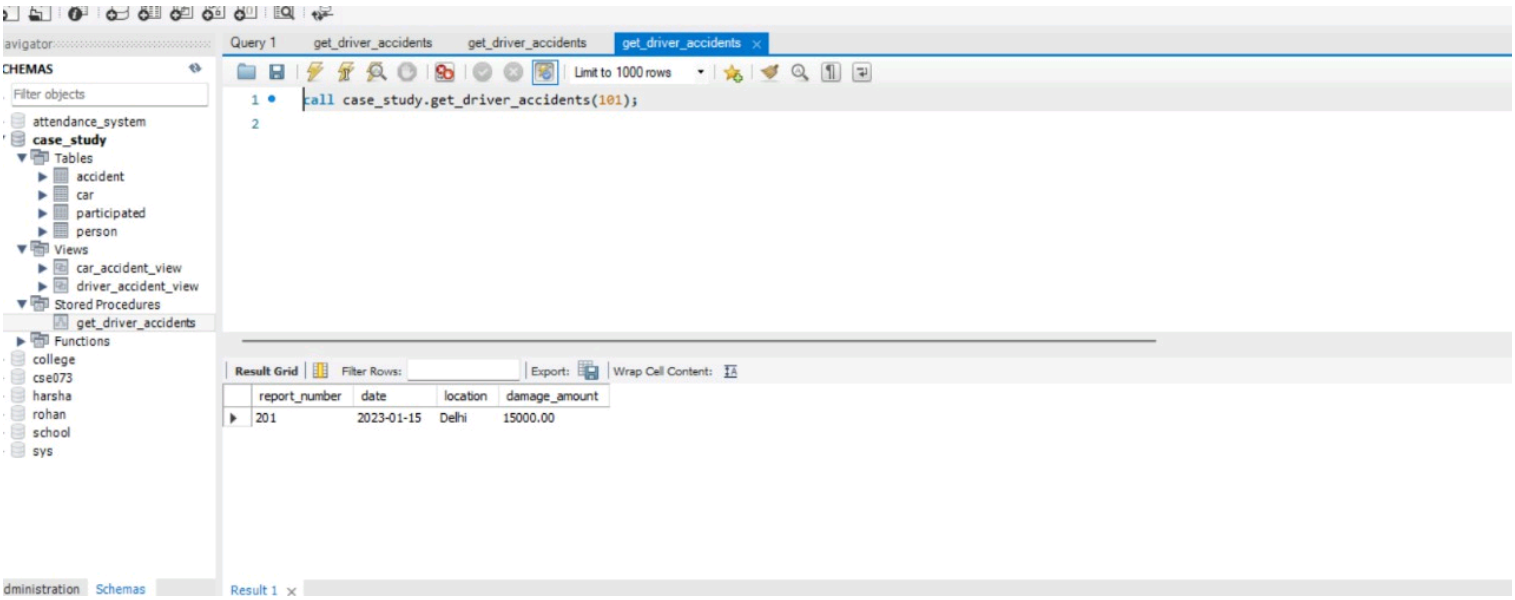
```
mysql> -- 3. Create a view showing driver and accident info
mysql> CREATE VIEW driver_accident_view AS
    -> SELECT p.driver_id, p.name, a.report_number, a.date, a.location, pa.damage_amount
    -> FROM person p
    -> JOIN participated pa ON p.driver_id = pa.driver_id
    -> JOIN accident a ON pa.report_number = a.report_number;
Query OK, 0 rows affected (0.03 sec)

mysql>
mysql> -- Query the view
mysql> SELECT * FROM driver_accident_view;
+-----------+-------------+---------------+------------+-----------+---------------+
| driver_id | name        | report_number | date       | location  | damage_amount |
+-----------+-------------+---------------+------------+-----------+---------------+
|       101 | Amit Sharma |           201 | 2023-01-15 | Delhi     |      15000.00 |
|       102 | Priya Mehta |           202 | 2023-03-22 | Mumbai    |       8000.50 |
|       103 | Ravi Kumar  |           203 | 2023-06-10 | Hyderabad |      12000.75 |
|       104 | Sneha Reddy |           204 | 2023-08-05 | Chennai   |       5000.00 |
|       105 | Karan Singh |           205 | 2023-11-30 | Bangalore |       9500.25 |
+-----------+-------------+---------------+------------+-----------+---------------+
5 rows in set (0.00 sec)

mysql> -- 4. Create a view showing car and accident info
mysql> CREATE VIEW car_accident_view AS
    -> SELECT c.license, c.model, c.year, a.report_number, a.date, pa.damage_amount
    -> FROM car c
    -> JOIN participated pa ON c.license = pa.license
    -> JOIN accident a ON pa.report_number = a.report_number;
Query OK, 0 rows affected (0.03 sec)

mysql>
mysql> -- Query the view
mysql> SELECT * FROM car_accident_view;
+------------+---------------+------+---------------+------------+---------------+
| license    | model         | year | report_number | date       | damage_amount |
+------------+---------------+------+---------------+------------+---------------+
| DL8CAF4321 | Hyundai i20   | 2020 |           202 | 2023-03-22 |       8000.50 |
| KA03MN4567 | Toyota Innova | 2019 |           204 | 2023-08-05 |       5000.00 |
| MH12AB1234 | Honda City    | 2018 |           201 | 2023-01-15 |      15000.00 |
| TN10PQ6789 | Ford EcoSport | 2021 |           205 | 2023-11-30 |       9500.25 |
| TS09XY9876 | Maruti Swift  | 2017 |           203 | 2023-06-10 |      12000.75 |
+------------+---------------+------+---------------+------------+---------------+
5 rows in set (0.00 sec)
```

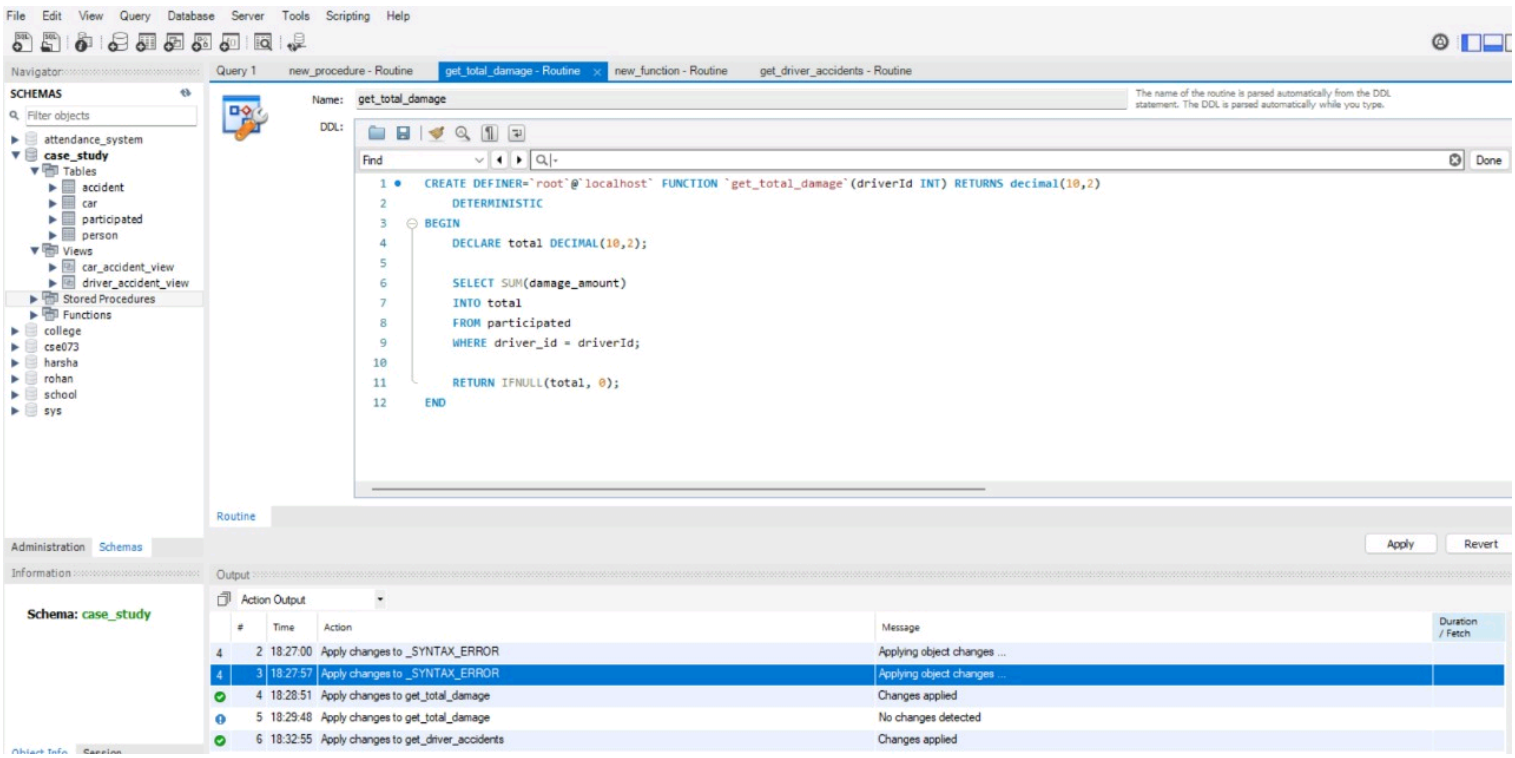
```
mysql> -- 5. Find drivers who had damage greater than average damage
mysql> SELECT name
    -> FROM person
    -> WHERE driver_id IN (
    ->     SELECT driver_id
    ->     FROM participated
    ->     WHERE damage_amount > (SELECT AVG(damage_amount) FROM participated)
    -> );
+-------------+
| name        |
+-------------+
| Amit Sharma |
| Ravi Kumar  |
+-------------+
2 rows in set (0.01 sec)

mysql>
mysql> -- 6. Find cars involved in accidents in the same location as accident #202
mysql> SELECT license, model
    -> FROM car
    -> WHERE license IN (
    ->     SELECT license
    ->     FROM participated
    ->     WHERE report_number IN (
    ->         SELECT report_number
    ->         FROM accident
    ->         WHERE location = (SELECT location FROM accident WHERE report_number = 202)
    ->     )
    -> );
+------------+-------------+
| license    | model       |
+------------+-------------+
| DL8CAF4321 | Hyundai i20 |
+------------+-------------+
1 row in set (0.00 sec)
```

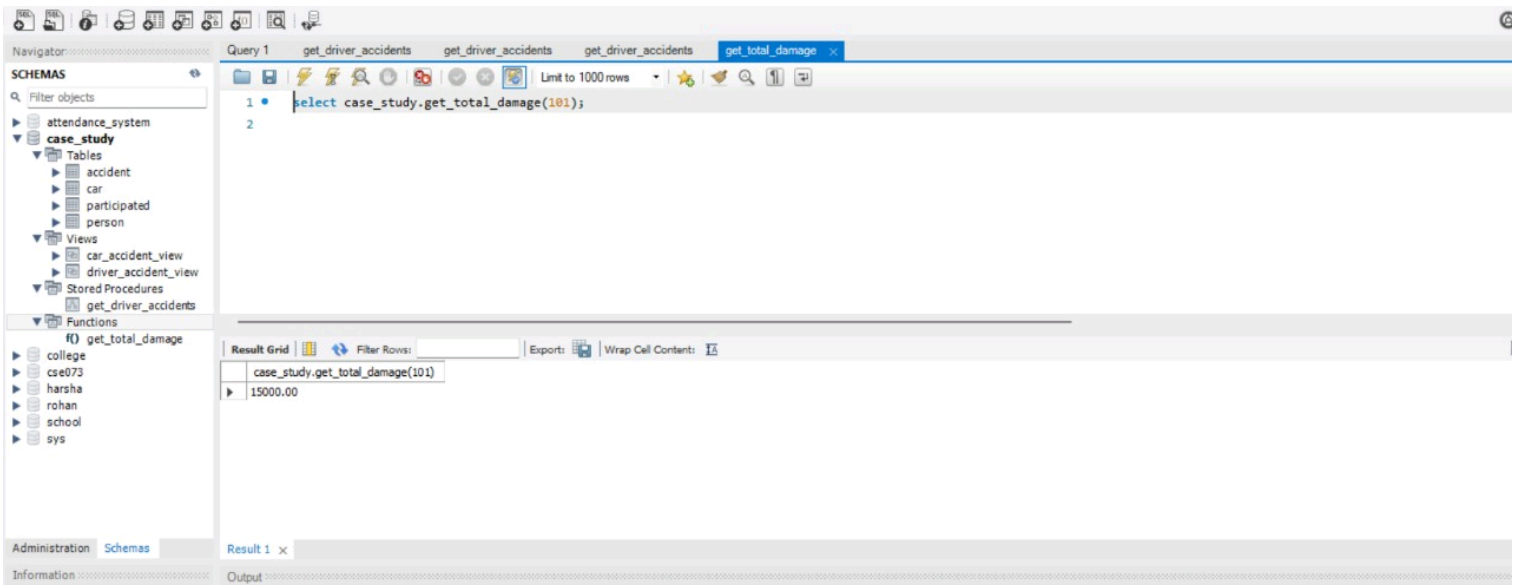
```
mysql> -- 7. Count how many accidents each driver participated in
mysql> SELECT p.name, COUNT(pa.report_number) AS accident_count
    -> FROM person p
    -> JOIN participated pa ON p.driver_id = pa.driver_id
    -> GROUP BY p.name;
+-------------+----------------+
| name        | accident_count |
+-------------+----------------+
| Amit Sharma |              1 |
| Priya Mehta |              1 |
| Ravi Kumar  |              1 |
| Sneha Reddy |              1 |
| Karan Singh |              1 |
+-------------+----------------+
5 rows in set (0.03 sec)

mysql>
mysql> -- 8. Find the car models that participated in accidents after 2023-06-01
mysql> SELECT DISTINCT c.model
    -> FROM car c
    -> JOIN participated pa ON c.license = pa.license
    -> JOIN accident a ON pa.report_number = a.report_number
    -> WHERE a.date > '2023-06-01';
+---------------+
| model         |
+---------------+
| Maruti Swift  |
| Toyota Innova |
| Ford EcoSport |
+---------------+
3 rows in set (0.00 sec)
```

```
mysql>
mysql> -- 9. Show the maximum damage amount per accident
mysql> SELECT a.report_number, MAX(pa.damage_amount) AS max_damage
    -> FROM accident a
    -> JOIN participated pa ON a.report_number = pa.report_number
    -> GROUP BY a.report_number;
+---------------+------------+
| report_number | max_damage |
+---------------+------------+
|           201 |   15000.00 |
|           202 |    8000.50 |
|           203 |   12000.75 |
|           204 |    5000.00 |
|           205 |    9500.25 |
+---------------+------------+
5 rows in set (0.00 sec)

mysql>
mysql> -- 10. List all drivers and their addresses who have cars manufactured after 2018
mysql> SELECT DISTINCT p.name, p.address
    -> FROM person p
    -> JOIN participated pa ON p.driver_id = pa.driver_id
    -> JOIN car c ON pa.license = c.license
    -> WHERE c.year > 2018;
+-------------+-----------+
| name        | address   |
+-------------+-----------+
| Priya Mehta | Mumbai    |
| Sneha Reddy | Chennai   |
| Karan Singh | Bangalore |
+-------------+-----------+
3 rows in set (0.00 sec)

mysql>
```


File Edit View Query Database Server Tools Scripting Help
Navigator:
SCHEMAS
Filter objects
attendance_system
case_study
Tables
accident
car
participated
person
Views
car_accident_view
driver_accident_view
Stored Procedures
Functions
college
cse073
harsha
rohan
school
sys
Administration Schemas
Information
Schema: case_study
Query 1
new_procedure - Routine
get_total_damage - Routine
new_function - Routine
get_driver_accidents - Routine
Name: get_driver_accidents
The name of the routine is parsed automatically from the DDL statement. The DDL is parsed automatically while you type.
DDL:
1 CREATE DEFINER=`root`@`localhost` PROCEDURE `get_driver_accidents`(IN driverId INT)
2 BEGIN
3 SELECT a.report_number, a.date, a.location, pa.damage_amount
4 FROM accident a
5 JOIN participated pa ON a.report_number = pa.report_number
6 WHERE pa.driver_id = driverId;
7 END
Routine
Apply
Revert
Output
Action Output
Time Action Message Duration / Fetch
4 2 18:27:00 Apply changes to _SYNTAX_ERROR Applying object changes ...
4 3 18:27:57 Apply changes to _SYNTAX_ERROR Applying object changes ...
4 18:28:51 Apply changes to get_total_damage Changes applied


Query 1
get_driver_accidents
get_driver_accidents
get_driver_accidents
Limit to 1000 rows
1 call case_study.get_driver_accidents(101);
2
SCHEMAS
Filter objects
attendance_system
case_study
Tables
accident
car
participated
person
Views
car_accident_view
driver_accident_view
Stored Procedures
get_driver_accidents
Functions
college
cse073
harsha
rohan
school
sys
Result Grid
Filter Rows:
Export:
Wrap Cell Content:
report_number
date
location
damage_amount
201
2023-01-15
Delhi
15000.00
Result 1


File Edit View Query Database Server Tools Scripting Help
Navigator
SCHEMAS
Filter objects
attendance_system
case_study
Tables
accident
car
participated
person
Views
car_accident_view
driver_accident_view
Stored Procedures
Functions
college
cse073
harsha
rohan
school
sys
Query 1
new_procedure - Routine
get_total_damage - Routine
new_function - Routine
get_driver_accidents - Routine
Name: get_total_damage
The name of the routine is parsed automatically from the DDL statement. The DDL is parsed automatically while you type.
DDL:
Find
Done
1 CREATE DEFINER=`root`@`localhost` FUNCTION `get_total_damage`(driverId INT) RETURNS decimal(10,2)
2 DETERMINISTIC
3 BEGIN
4 DECLARE total DECIMAL(10,2);
5
6 SELECT SUM(damage_amount)
7 INTO total
8 FROM participated
9 WHERE driver_id = driverId;
10
11 RETURN IFNULL(total, 0);
12 END
Routine
Apply
Revert
Administration
Schemas
Information
Schema: case_study
Output
Action Output
Time Action Message Duration / Fetch
4 2 18:27:00 Apply changes to _SYNTAX_ERROR Applying object changes ...
4 3 18:27:57 Apply changes to _SYNTAX_ERROR Applying object changes ...
4 18:28:51 Apply changes to get_total_damage Changes applied
5 18:29:48 Apply changes to get_total_damage No changes detected
6 18:32:55 Apply changes to get_driver_accidents Changes applied


Navigator
SCHEMAS
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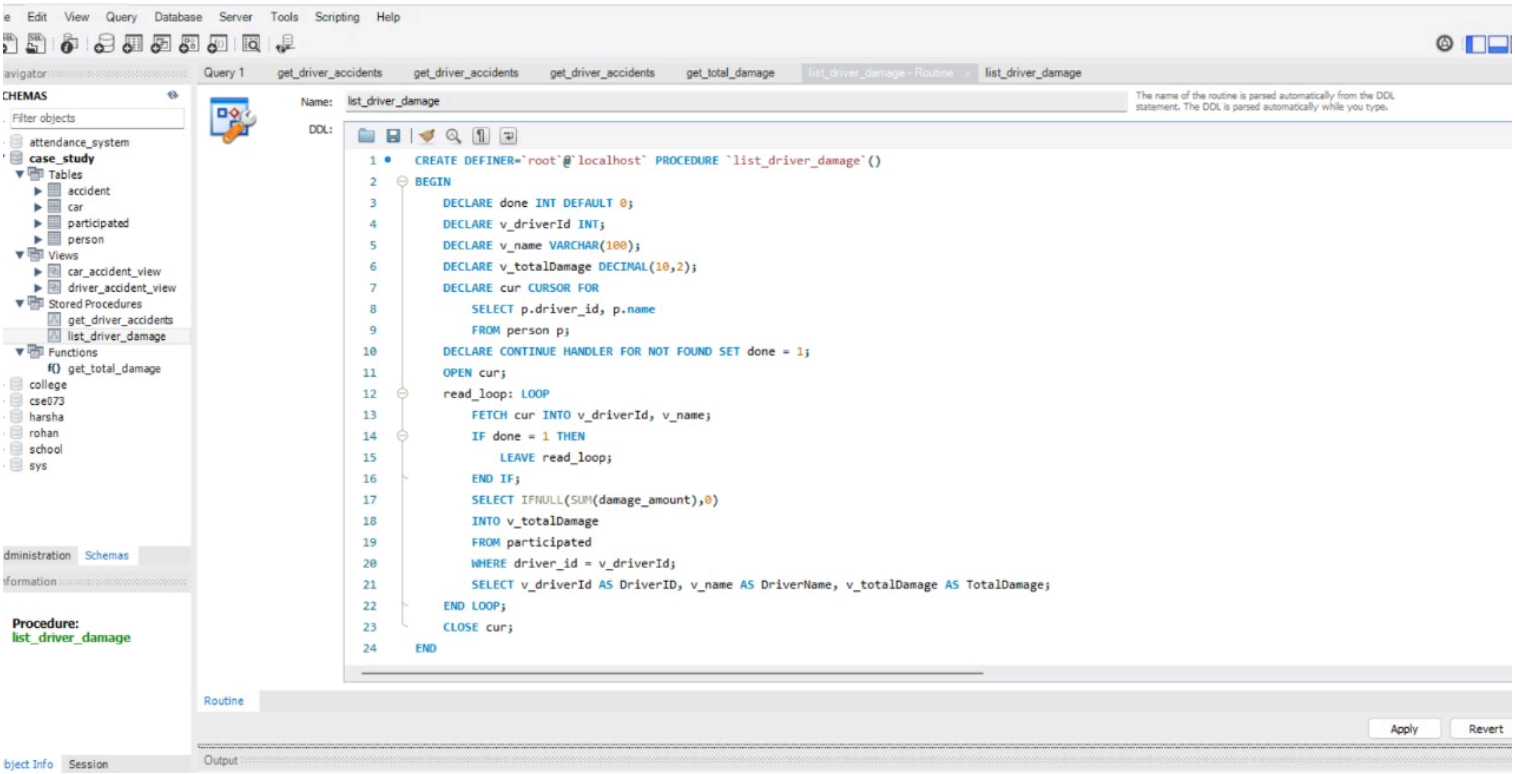
Views
car_accident_view
driver_accident_view
Stored Procedures
get_driver_accidents
Functions
get_total_damage
college
cse073
harsha
rohan
school
sys
Administration
Schemas
Information
Query 1
get_driver_accidents
get_driver_accidents
get_driver_accidents
get_total_damage
Limit to 1000 rows
1 select case_study.get_total_damage(101);
2
Result Grid
Filter Rows:
Export:
Wrap Cell Content:
case_study.get_total_damage(101)
15000.00
Result 1
Output


Edit View Query Database Server Tools Scripting Help
Query 1
get_driver_accidents
get_driver_accidents
get_driver_accidents
get_total_damage
list_driver_damage - Routine
list_driver_damage
SCHEMAS
Filter objects
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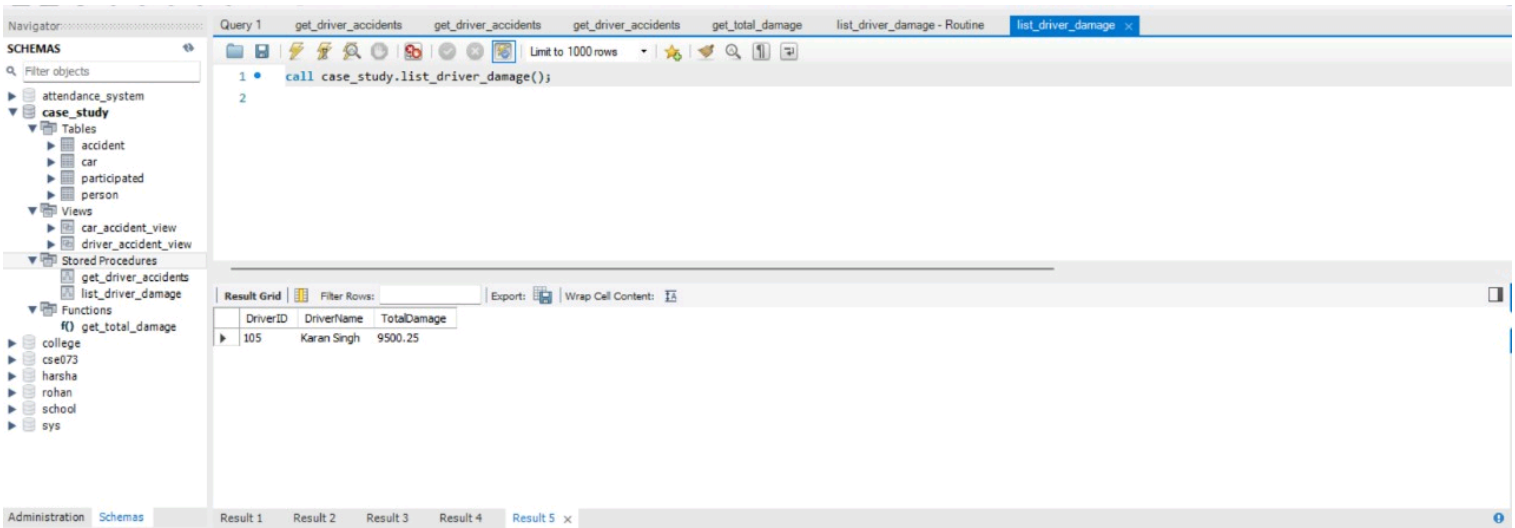
list_driver_damage
Functions
get_total_damage
college
cse073
harsha
rohan
school
sys
Administration
Schemas
Information
Procedure:
list_driver_damage
Object Info
Session
Name:
list_driver_damage
The name of the routine is parsed automatically from the DDL statement. The DDL is parsed automatically while you type.
DDL:
1 CREATE DEFINER=`root`@`localhost` PROCEDURE `list_driver_damage`()
2 BEGIN
3 DECLARE done INT DEFAULT 0;
4 DECLARE v_driverId INT;
5 DECLARE v_name VARCHAR(100);
6 DECLARE v_totalDamage DECIMAL(10,2);
7 DECLARE cur CURSOR FOR
8 SELECT p.driver_id, p.name
9 FROM person p;
10 DECLARE CONTINUE HANDLER FOR NOT FOUND SET done = 1;
11 OPEN cur;
12 read_loop: LOOP
13 FETCH cur INTO v_driverId, v_name;
14 IF done = 1 THEN
15 LEAVE read_loop;
16 END IF;
17 SELECT IFNULL(SUM(damage_amount),0)
18 INTO v_totalDamage
19 FROM participated
20 WHERE driver_id = v_driverId;
21 SELECT v_driverId AS DriverID, v_name AS DriverName, v_totalDamage AS TotalDamage;
22 END LOOP;
23 CLOSE cur;
24 END
Routine
Apply
Revert
Output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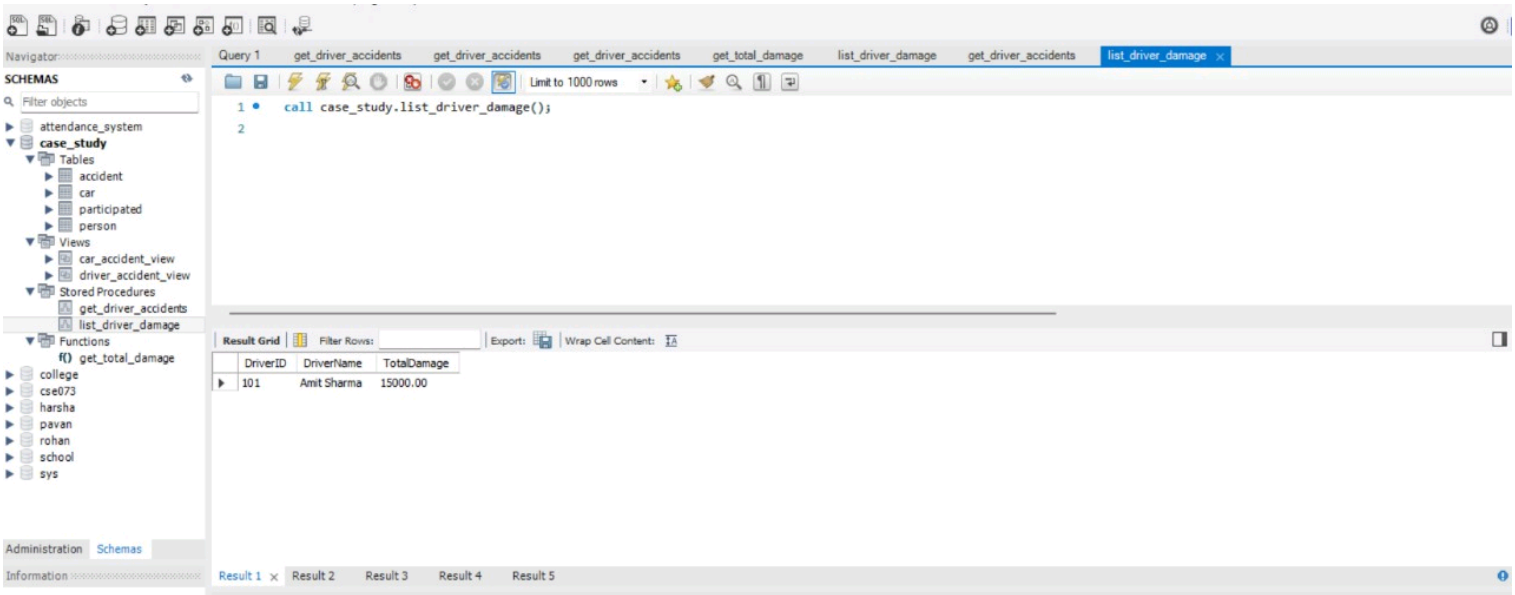
Schemas
Query 1
get_driver_accidents
get_driver_accidents
get_driver_accidents
get_total_damage
list_driver_damage - Routine
list_driver_damage
Limit to 1000 rows
1
2
call case_study.list_driver_damage();
Result Grid
Filter Rows:
Export:
Wrap Cell Content:
DriverID
DriverName
TotalDamage
105
Karan Singh
9500.25
Result 1
Result 2
Result 3
Result 4
Result 5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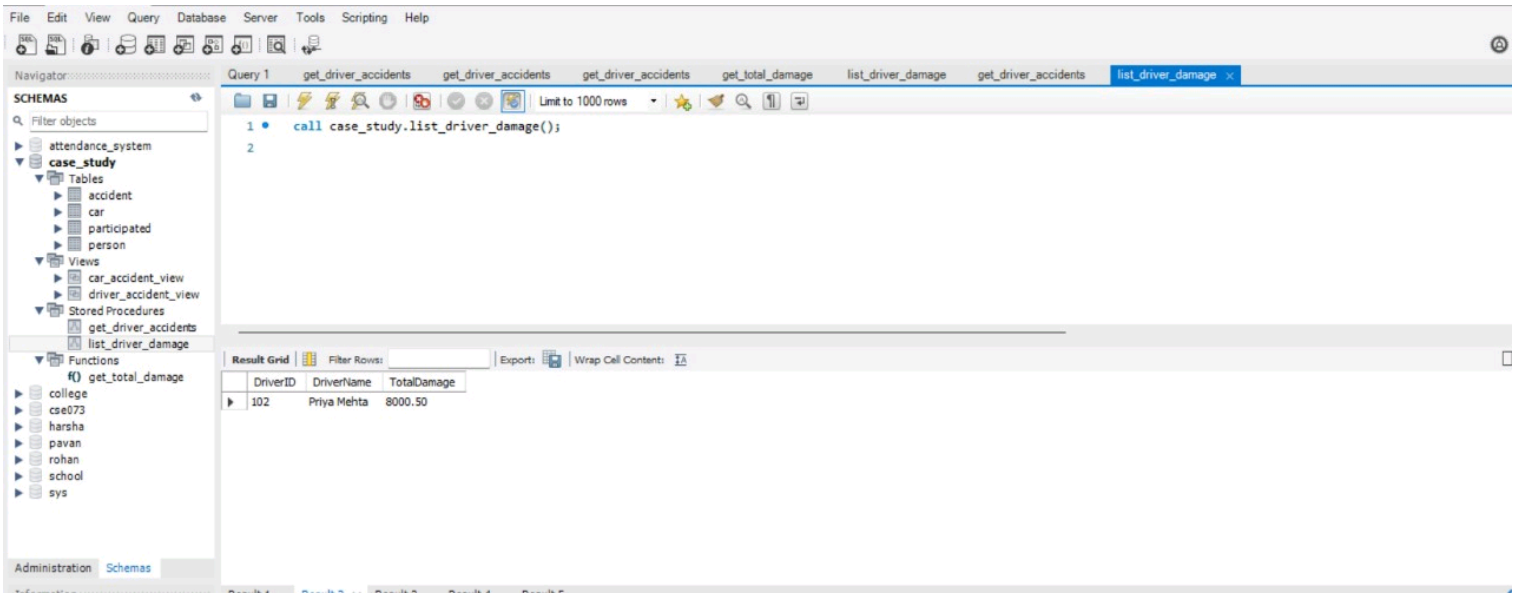
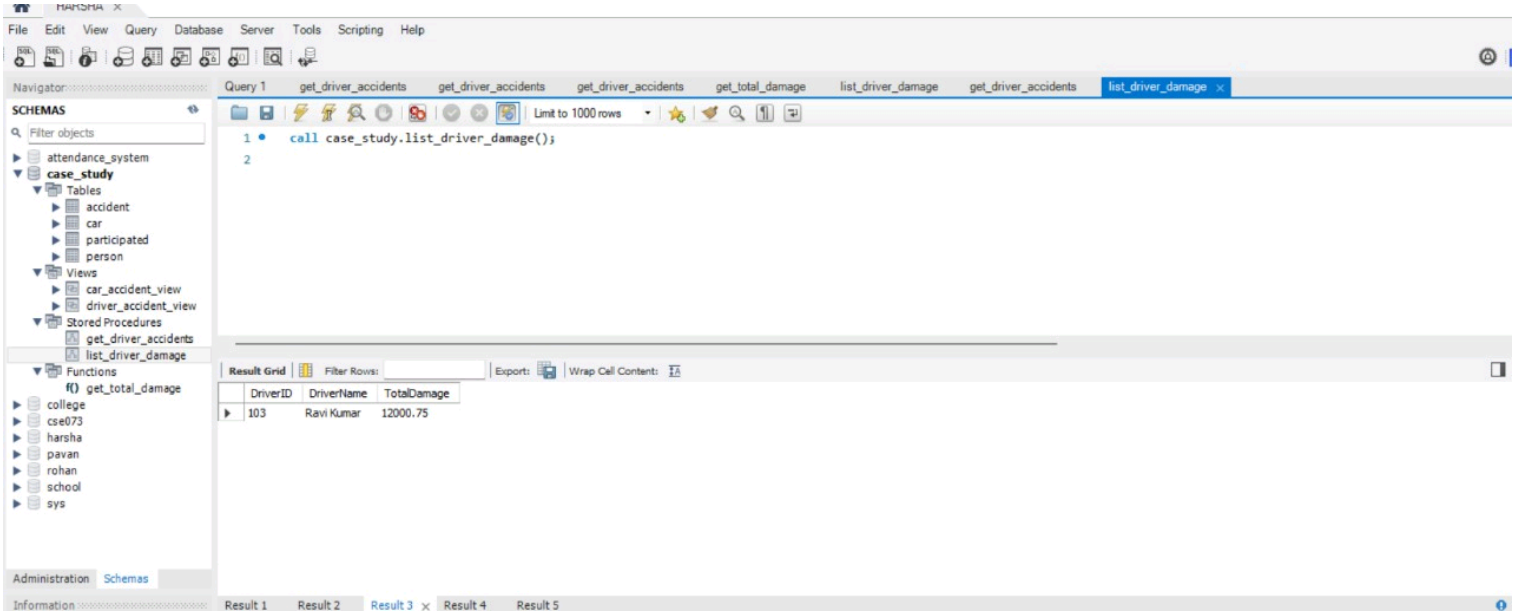
car_accident_view
driver_accident_view
Stored Procedures
get_driver_accidents
list_driver_damage
Functions
get_total_damage
college
cse073
harsha
pavan
rohan
school
sys
Administration
Schemas
Information
Query 1
get_driver_accidents
get_driver_accidents
get_driver_accidents
get_total_damage
list_driver_damage
get_driver_accidents
list_driver_damage
Limit to 1000 rows
1
call case_study.list_driver_damage();
2
Result Grid
Filter Rows:
Export:
Wrap Cell Content:
DriverID
DriverName
TotalDamage
101
Amit Sharma
15000.00
Result 1
Result 2
Result 3
Result 4
Result 5


File Edit View Query Database Server Tools Scripting Help
Navigator
SCHEMAS
Filter objects
attendance_system
case_study
Tables
accident
car
participated
person
Views
car_accident_view
driver_accident_view
Stored Procedures
get_driver_accidents
list_driver_damage
Functions
get_total_damage
college
cse073
harsha
pavan
rohan
school
sys
Administration
Schemas
Query 1
get_driver_accidents
get_driver_accidents
get_driver_accidents
get_total_damage
list_driver_damage
get_driver_accidents
list_driver_damage
Limit to 1000 rows
1 call case_study.list_driver_damage();
2
Result Grid
Filter Rows:
Export:
Wrap Cell Content:
DriverID
DriverName
TotalDamage
102
Priya Mehta
8000.50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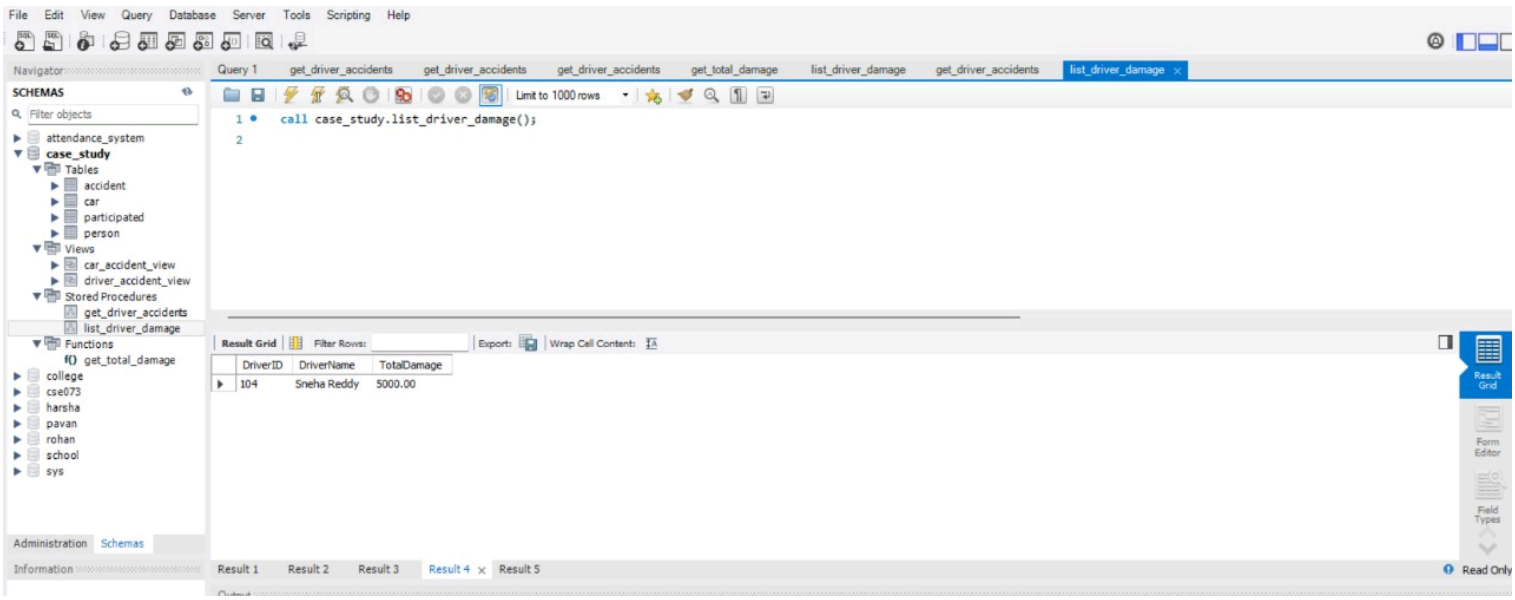
Administration Schemas
Information
Query 1 get_driver_accidents get_driver_accidents get_driver_accidents get_total_damage list_driver_damage get_driver_accidents list_driver_damage
Limit to 1000 rows
1 call case_study.list_driver_damage();
2
Result Grid Filter Rows: Export: Wrap Cell Content:
DriverID DriverName TotalDamage
103 Ravi Kumar 12000.75
Result 1 Result 2 Result 3 Result 4 Result 5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f() get_total_damage
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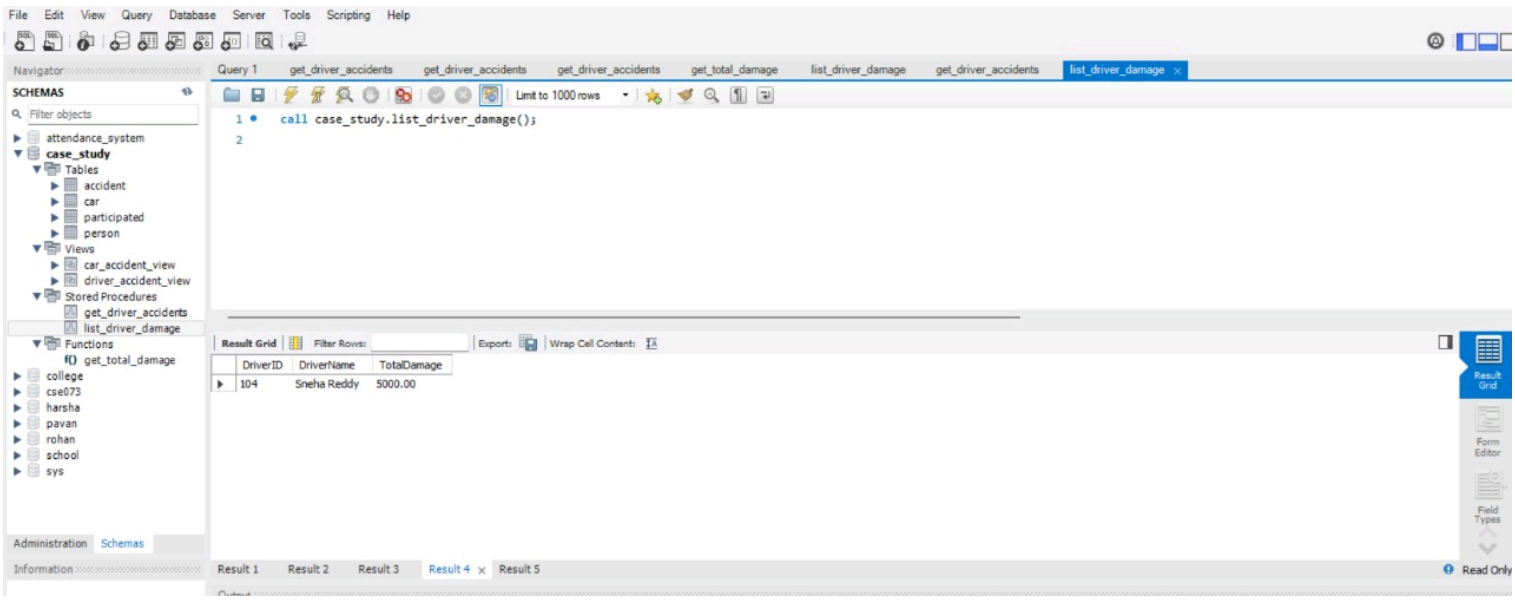
Information
Query 1 get_driver_accidents get_driver_accidents get_driver_accidents get_total_damage list_driver_damage get_driver_accidents list_driver_damage
Limit to 1000 rows
1 call case_study.list_driver_damage();
2
Result Grid Filter Rows: Export: Wrap Cell Content:
DriverID DriverName TotalDamage
104 Sneha Reddy 5000.00
Result Grid
Form Editor
Field Types
Result 1 Result 2 Result 3 Result 4 Result 5
Read Only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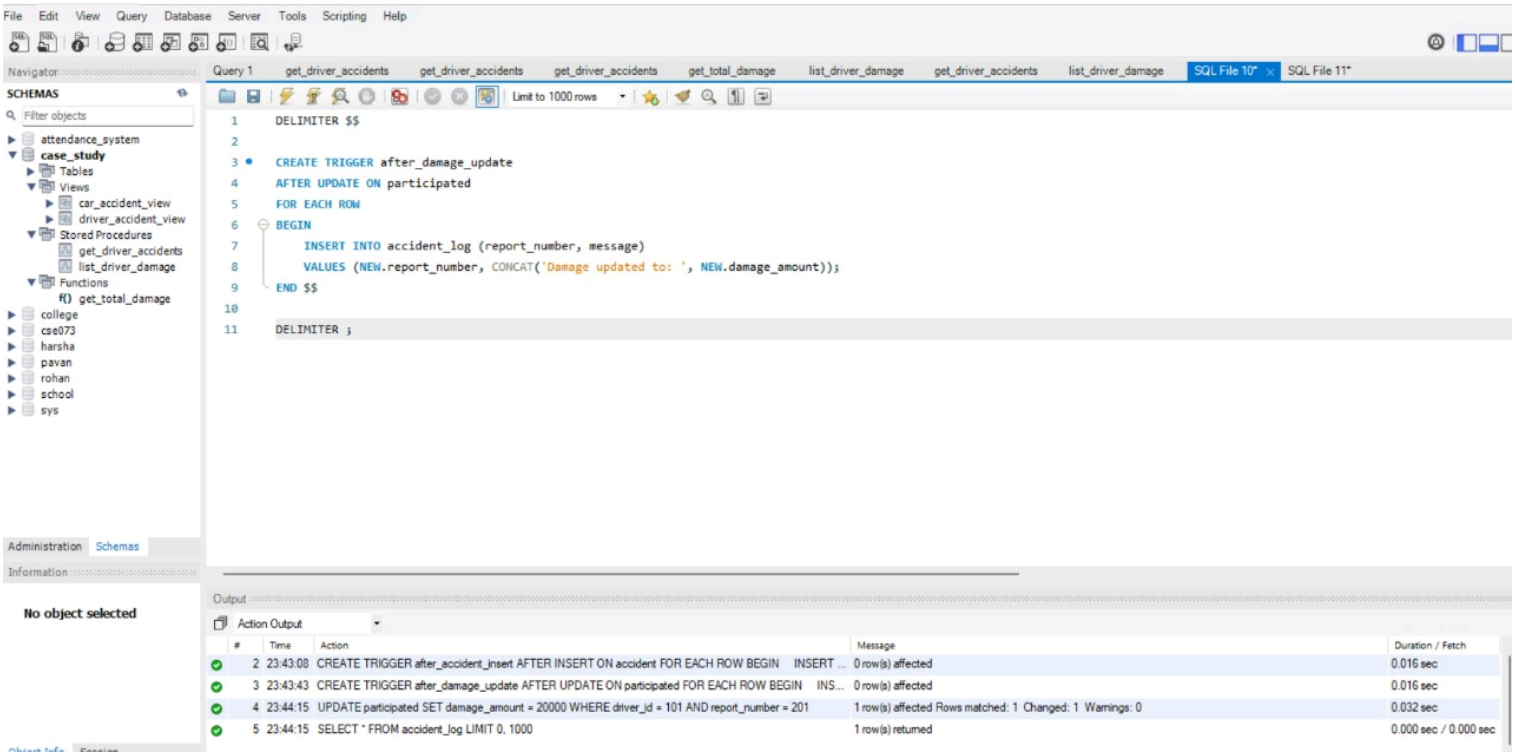
1 call case_study.list_driver_damage();
2
Result Grid Filter Rows: Export: Wrap Cell Content:
DriverID DriverName TotalDamage
104 Sneha Reddy 5000.00
Result Grid
Form Editor
Field Types
Result 1 Result 2 Result 3 Result 4 Result 5
Read Only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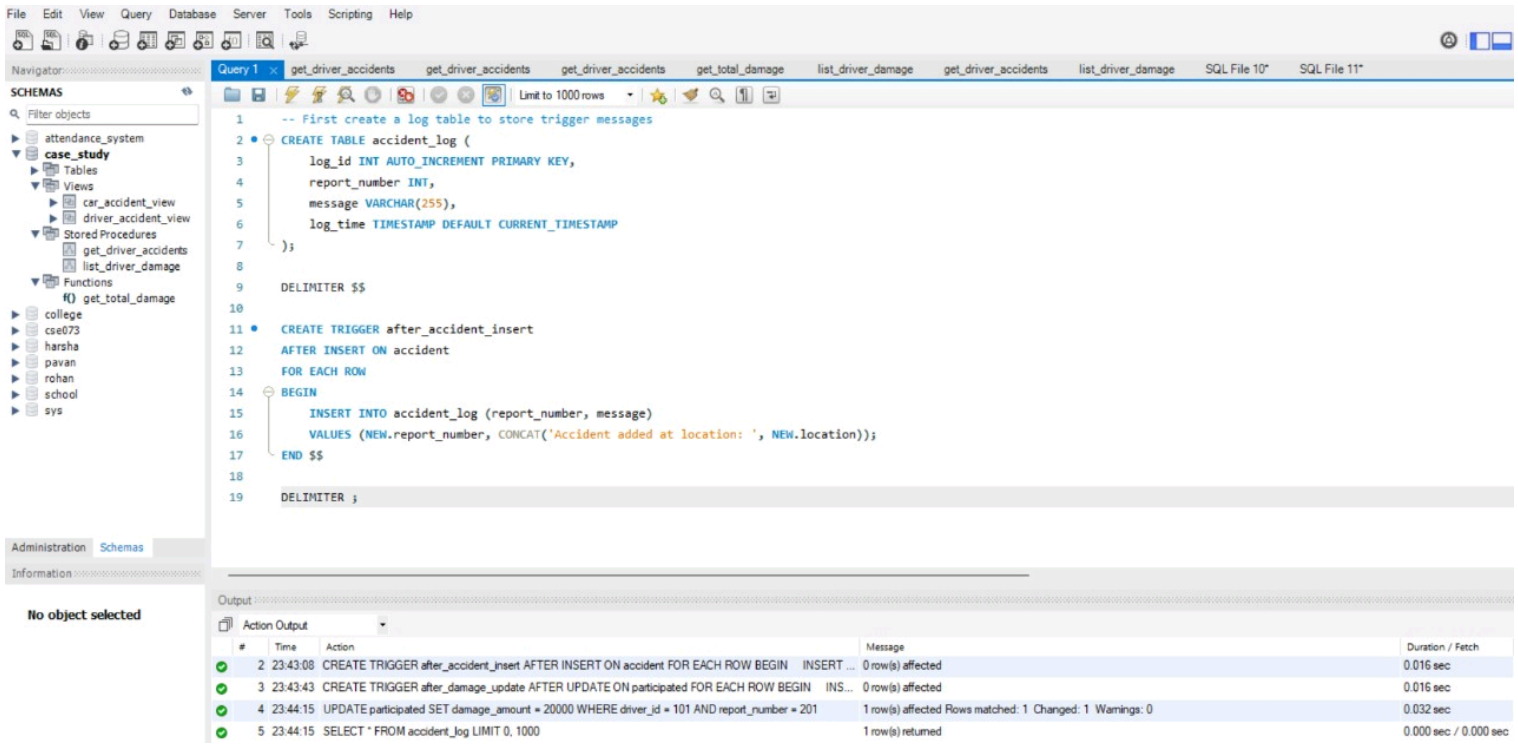
harsha
pavan
rohan
school
sys
Administration Schemas
Information
No object selected
Query 1 get_driver_accidents get_driver_accidents get_driver_accidents get_total_damage list_driver_damage get_driver_accidents list_driver_damage SQL File 10* SQL File 11*
Limit to 1000 rows
1 DELIMITER $$
2
3 CREATE TRIGGER after_damage_update
4 AFTER UPDATE ON participated
5 FOR EACH ROW
6 BEGIN
7 INSERT INTO accident_log (report_number, message)
8 VALUES (NEW.report_number, CONCAT('Damage updated to: ', NEW.damage_amount));
9 END $$
10
11 DELIMITER ;
Output
Action Output
Time Action Message Duration / Fetch
2 23:43:08 CREATE TRIGGER after_accident_insert AFTER INSERT ON accident FOR EACH ROW BEGIN INSERT ... 0 row(s) affected 0.016 sec
3 23:43:43 CREATE TRIGGER after_damage_update AFTER UPDATE ON participated FOR EACH ROW BEGIN INS... 0 row(s) affected 0.016 sec
4 23:44:15 UPDATE participated SET damage_amount = 20000 WHERE driver_id = 101 AND report_number = 201 1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0 0.032 sec
5 23:44:15 SELECT * FROM accident_log LIMIT 0, 1000 1 row(s) returned 0.000 sec / 0.000 sec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Administration Schemas
Information
No object selected
Query 1
get_driver_accidents
get_driver_accidents
get_driver_accidents
get_total_damage
list_driver_damage
get_driver_accidents
list_driver_damage
SQL File 10*
SQL File 11*
Limit to 1000 rows
1 -- First create a log table to store trigger messages
2 CREATE TABLE accident_log (
3 log_id INT AUTO_INCREMENT PRIMARY KEY,
4 report_number INT,
5 message VARCHAR(255),
6 log_time TIMESTAMP DEFAULT CURRENT_TIMESTAMP
7);
8
9 DELIMITER $$
10
11 CREATE TRIGGER after_accident_insert
12 AFTER INSERT ON accident
13 FOR EACH ROW
14 BEGIN
15 INSERT INTO accident_log (report_number, message)
16 VALUES (NEW.report_number, CONCAT('Accident added at location: ', NEW.location));
17 END $$
18
19 DELIMITER ;
Output
Action Output
Time Action Message Duration / Fetch
2 23:43:08 CREATE TRIGGER after_accident_insert AFTER INSERT ON accident FOR EACH ROW BEGIN INSERT ... 0 row(s) affected 0.016 sec
3 23:43:43 CREATE TRIGGER after_damage_update AFTER UPDATE ON participated FOR EACH ROW BEGIN INS... 0 row(s) affected 0.016 sec
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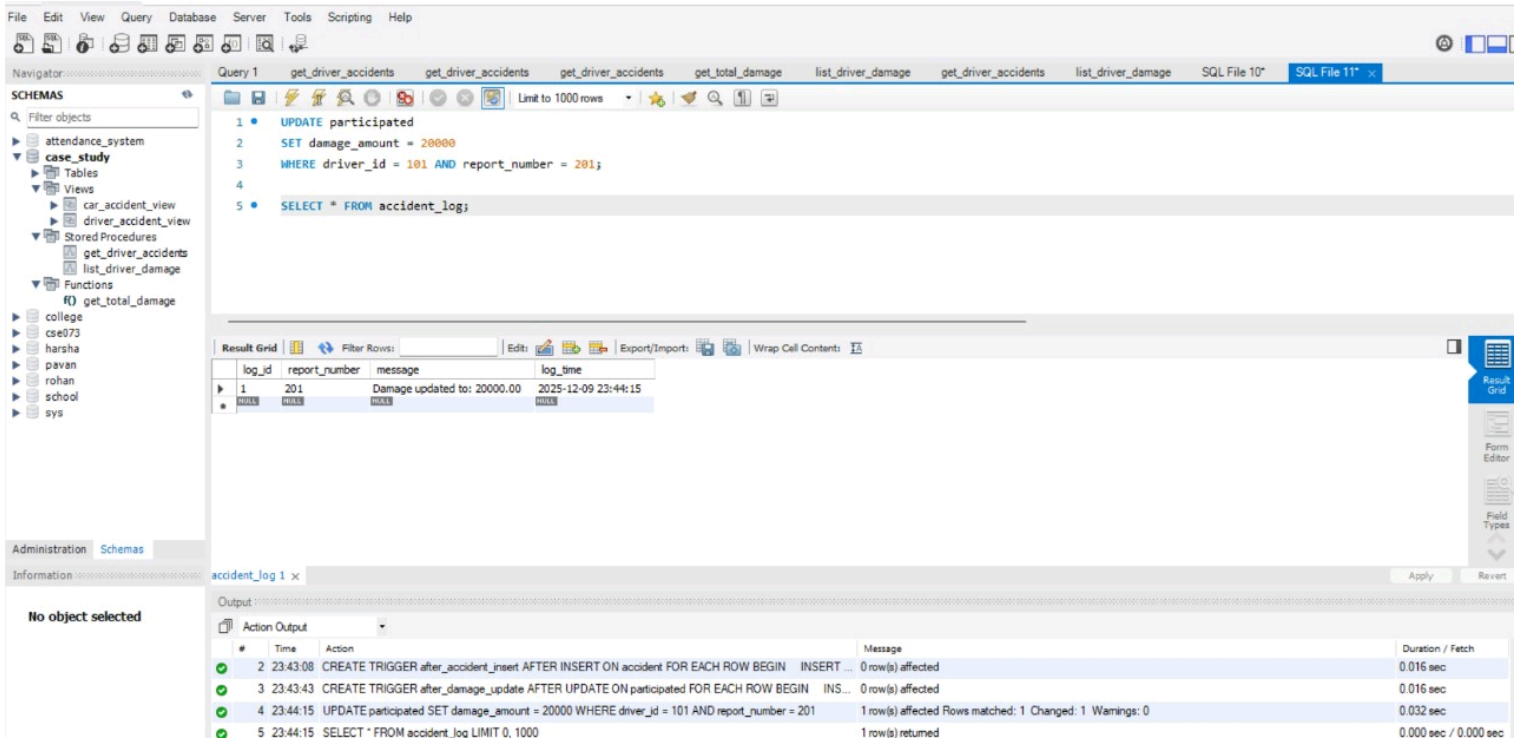
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Administration Schemas
Information
No object selected
Query 1 get_driver_accidents get_driver_accidents get_driver_accidents get_total_damage list_driver_damage get_driver_accidents list_driver_damage SQL File 10* SQL File 11*
Limit to 1000 rows
1 UPDATE participated
2 SET damage_amount = 20000
3 WHERE driver_id = 101 AND report_number = 201;
4
5 SELECT * FROM accident_log;
Result Grid Filter Rows: Edit: Export/Import: Wrap Cell Content:
log_id report_number message log_time
1 201 Damage updated to: 20000.00 2025-12-09 23:44:15
accident_log 1
Apply Revert
Output
Action Output
Time Action Message Duration / Fetch
2 23:43:08 CREATE TRIGGER after_accident_insert AFTER INSERT ON accident FOR EACH ROW BEGIN INSERT ... 0 row(s) affected 0.016 sec
3 23:43:43 CREATE TRIGGER after_damage_update AFTER UPDATE ON participated FOR EACH ROW BEGIN INS... 0 row(s) affected 0.016 sec
4 23:44:15 UPDATE participated SET damage_amount = 20000 WHERE driver_id = 101 AND report_number = 201 1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0 0.032 sec
5 23:44:15 SELECT * FROM accident_log LIMIT 0, 1000 1 row(s) returned 0.000 sec / 0.000 sec