

Last login: Thu Mar 21 10:05:56 on ttys000

macbook@Kshitijs-MacBook-Air ~ % mysql -u root

Welcome to the MySQL monitor. Commands end with ; or \g.
Your MySQL connection id is 45
Server version: 8.3.0 Homebrew

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owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> use impact
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A

Database changed
mysql> delimiter //
mysql> create function ms()
-> returns decimal
-> DETERMINISTIC
-> begin
-> declare v_m decimal;
-> select max(sal) into v_m from emp;
-> return v_m;
-> end //
Query OK, 0 rows affected (0.03 sec)

mysql> delimiter ;
mysql> select ms() as maximumsal;
+-----+
| maximumsal |
+-----+
| 5000 |
+-----+
1 row in set (0.01 sec)

mysql> select ms()
-> ;
+-----+
| ms() |
+-----+
| 5000 |
+-----+
1 row in set (0.00 sec)

mysql> create function ms1(in empkanaam varchar(20))
-> returns varchar(20)
-> DETERMINISTIC
-> begin
-> declare v_m varchar(20);
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'in em
pkanaam varchar(20))'
returns varchar(20)
DETERMINISTIC
begin
declare v_m va' at line 1
mysql> delimiter //
mysql> create function ms1(in empkanaam varchar(20))
-> //
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'in em
pkanaam varchar(20))' at line 1

mysql>
mysql>
mysql> create function welen(en varchar(10))
-> return varchar(30)
-> deterministic
-> begin
-> declare v_en varchar(30);
-> set v_en = concat('welcome',en)
-> return v_en;
-> end//
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'retur
n varchar(30)
deterministic
begin
declare v_en varchar(30);
set v_en = conca' at line 2
mysql> create function welen(en varchar(10))
-> returns varchar(30)
-> deterministic
-> begin
-> declare v_en varchar(30);
-> set v_en = concat('welcome',en)
-> return v_en;
-> end//
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'begin
declare v_en varchar(30);
set v_en = concat('welcome',en)
return v_en;
end' at line 4

mysql> create function welen(en varchar(10))
-> returns varchar(30)
-> deterministicbegin
-> //
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near '' at
line 3

mysql> create function welen(en varchar(10))
-> returns varchar(30)
-> deterministic
-> begin
-> declare v_en varchar(30);
-> set v_en = concat('welcome',en);
-> return v_en;
-> end//
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'begin
declare v_en varchar(30);
set v_en = concat('welcome',en);
return v_en;
en' at line 4
mysql> create function welen(en varchar(10))
-> returns varchar(30)
-> DETERMINISTIC
-> begin
-> declare v_en varchar(30);

Query OK, 0 rows affected (0.05 sec)

```
mysql> select welen('raju');
```

```
1 row in set (0.01 sec)
```

$$+ \cdots + \frac{1}{2} \log \left(\frac{1}{1 - K_0 + K_0^2 + K_0^3 + \cdots} \right) + \cdots$$

```
1 row in set (0.00 sec)
```

```
emp  at line 1
mysql> select welen(ename) from emp;
```

```
19 rows in set (0.01 sec)
```

```
mysql> create function sum_of_3(a int,b int,c int)
```

```
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near '= +b
+c' at line 6
mysql> create function sum of 3(a int,b int,c int)
```

```

    > return (a1:b1),
-> end //

```

```
mysql> select sum_of_3(10,10,10),
-> //
```

```
1 row in set (0.01 sec)
```

Query OK, 0 rows affected (0.06 sec)

-> //

Records: 2 Duplicates: 0 Warnings: 0

-> //

```
2 rows in set (0.00 sec)
```

```

-> //

```

```
3 rows in set (0.09 sec)
```

```

mysql> select routine_schema,
-> routine_name,
-> routine_type
-> from information_schema.routines
-> where routine_schema = 'impact' and routine_type = 'FUNCTION';//
+-----+-----+-----+
| ROUTINE_SCHEMA | ROUTINE_NAME | ROUTINE_TYPE |
+-----+-----+-----+
| impact         | ms           | FUNCTION      |
| impact         | sum_of_3     | FUNCTION      |
| impact         | welen        | FUNCTION      |
+-----+-----+-----+
3 rows in set (0.00 sec)

mysql> show create function ms;//
+-----+-----+-----+
| Function | sql_mode | Create Function | character_set_cli |
+-----+-----+-----+
| ms       | ONLY_FULL_GROUP_BY,STRICT_TRANS_TABLES,NO_ZERO_IN_DATE,NO_ZERO_DATE,ERROR_FOR_DIVISION_BY_ZERO,NO_ENGINE_SUBSTITUTION | CREATE DEFINER='root'@'localhost' FUNCTION `ms`() RETURNS decimal(10,0) DETERMINISTIC |
+-----+-----+-----+
begin
declare v_m decimal;
select max(sal) into v_m from emp;
return v_m;
end | utf8mb4 | utf8mb4_0900_ai_ci | utf8mb4_0900_ai_ci |
+-----+-----+-----+
1 row in set (0.00 sec)

mysql> select sysdate(),currddate();
-> //
ERROR 1305 (42000): FUNCTION impact.currddate does not exist
mysql> select sysdate(),curr_date();
-> //
ERROR 1305 (42000): FUNCTION impact.curr_date does not exist
mysql> delimiter ;
mysql> select sysdate(),current_date();
+-----+-----+
| sysdate() | current_date() |
+-----+-----+
| 2024-03-21 11:10:06 | 2024-03-21 |
+-----+-----+
1 row in set (0.01 sec)

mysql> select now(),sysdate(),current_date();
+-----+-----+-----+
| now() | sysdate() | current_date() |
+-----+-----+-----+
| 2024-03-21 11:10:35 | 2024-03-21 11:10:35 | 2024-03-21 |
+-----+-----+-----+
1 row in set (0.00 sec)

mysql> select date(now());
+-----+
| date(now()) |
+-----+
| 2024-03-21 |
+-----+
1 row in set (0.00 sec)

mysql> select curdate();
+-----+
| curdate() |
+-----+
| 2024-03-21 |
+-----+
1 row in set (0.01 sec)

mysql> select date_format(date(now()), '%d_%m_%y') Styled_date;
+-----+
| Styled_date |
+-----+
| 21_03_24 |
+-----+
1 row in set (0.00 sec)

mysql> select date_format(date(now()), '%d-%m-%y') Styled_date;
+-----+
| Styled_date |
+-----+
| 21-03-24 |
+-----+
1 row in set (0.00 sec)

mysql> select hiredate from emp ;
+-----+
| hiredate |
+-----+
| 1980-12-17 |
| 1981-02-20 |
| 1981-02-22 |
| 1981-04-02 |
| 1981-09-28 |
| 1981-05-01 |
| 1981-06-09 |
| 1982-12-09 |
| 1981-11-17 |
| 1981-09-08 |
| 1983-01-12 |
| 1981-12-03 |
| 1981-12-03 |
| 1982-01-23 |
| NULL |
| NULL |
| NULL |
| NULL |
| NULL |
+-----+

```

```

19 rows in set (0.01 sec)

mysql> select hiredate,date_format(hiredate,'%d-%m-%y') form emp;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'emp'
at line 1
mysql> select hiredate,date_format(hiredate,'%d-%m-%y') fromm emp;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'emp'
at line 1
mysql> select hiredate,date_format(hiredate,'%d-%m-%y') from emp;
+-----+-----+
| hiredate | date_format(hiredate,'%d-%m-%y') |
+-----+-----+
| 1980-12-17 | 17-12-80 |
| 1981-02-20 | 20-02-81 |
| 1981-02-22 | 22-02-81 |
| 1981-04-02 | 02-04-81 |
| 1981-09-28 | 28-09-81 |
| 1981-05-01 | 01-05-81 |
| 1981-06-09 | 09-06-81 |
| 1982-12-09 | 09-12-82 |
| 1981-11-17 | 17-11-81 |
| 1981-09-08 | 08-09-81 |
| 1983-01-12 | 12-01-83 |
| 1981-12-03 | 03-12-81 |
| 1981-12-03 | 03-12-81 |
| 1982-01-23 | 23-01-82 |
| NULL | NULL |
| NULL | NULL |
| NULL | NULL |
| NULL | NULL |
| NULL | NULL |
+-----+-----+
19 rows in set (0.00 sec)

mysql> select hiredate,date_format(hiredate,'%d-%m-%Y') from emp;
+-----+-----+
| hiredate | date_format(hiredate,'%d-%m-%Y') |
+-----+-----+
| 1980-12-17 | 17-12-1980 |
| 1981-02-20 | 20-02-1981 |
| 1981-02-22 | 22-02-1981 |
| 1981-04-02 | 02-04-1981 |
| 1981-09-28 | 28-09-1981 |
| 1981-05-01 | 01-05-1981 |
| 1981-06-09 | 09-06-1981 |
| 1982-12-09 | 09-12-1982 |
| 1981-11-17 | 17-11-1981 |
| 1981-09-08 | 08-09-1981 |
| 1983-01-12 | 12-01-1983 |
| 1981-12-03 | 03-12-1981 |
| 1981-12-03 | 03-12-1981 |
| 1982-01-23 | 23-01-1982 |
| NULL | NULL |
| NULL | NULL |
| NULL | NULL |
| NULL | NULL |
| NULL | NULL |
+-----+-----+
19 rows in set (0.00 sec)

mysql> select hiredate,date_format(hiredate,'%D-%m-%Y') from emp;
+-----+-----+
| hiredate | date_format(hiredate,'%D-%m-%Y') |
+-----+-----+
| 1980-12-17 | 17th-12-1980 |
| 1981-02-20 | 20th-02-1981 |
| 1981-02-22 | 22nd-02-1981 |
| 1981-04-02 | 2nd-04-1981 |
| 1981-09-28 | 28th-09-1981 |
| 1981-05-01 | 1st-05-1981 |
| 1981-06-09 | 9th-06-1981 |
| 1982-12-09 | 9th-12-1982 |
| 1981-11-17 | 17th-11-1981 |
| 1981-09-08 | 8th-09-1981 |
| 1983-01-12 | 12th-01-1983 |
| 1981-12-03 | 3rd-12-1981 |
| 1981-12-03 | 3rd-12-1981 |
| 1982-01-23 | 23rd-01-1982 |
| NULL | NULL |
| NULL | NULL |
| NULL | NULL |
| NULL | NULL |
| NULL | NULL |
+-----+-----+
19 rows in set (0.01 sec)

mysql> select hiredate,date_format(hiredate,'%D-%M-%Y') from emp;
+-----+-----+
| hiredate | date_format(hiredate,'%D-%M-%Y') |
+-----+-----+
| 1980-12-17 | 17th-December-1980 |
| 1981-02-20 | 20th-February-1981 |
| 1981-02-22 | 22nd-February-1981 |
| 1981-04-02 | 2nd-April-1981 |
| 1981-09-28 | 28th-September-1981 |
| 1981-05-01 | 1st-May-1981 |
| 1981-06-09 | 9th-June-1981 |
| 1982-12-09 | 9th-December-1982 |
| 1981-11-17 | 17th-November-1981 |
| 1981-09-08 | 8th-September-1981 |
| 1983-01-12 | 12th-January-1983 |
| 1981-12-03 | 3rd-December-1981 |
| 1981-12-03 | 3rd-December-1981 |
| 1982-01-23 | 23rd-January-1982 |
| NULL | NULL |
| NULL | NULL |
| NULL | NULL |
| NULL | NULL |
| NULL | NULL |
+-----+-----+
19 rows in set (0.00 sec)

mysql> select datediff('2019-08-04',2019-08-01) diff;
'> ;
'> ;
-> ;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near '' at

```

```

line 3
mysql> select datediff('2019-08-04','2019-08-01') diff;
+-----+
| diff |
+-----+
| 3 |
+-----+
1 row in set (0.01 sec)

```

```

mysql> select * from emp;
+-----+-----+-----+-----+-----+-----+-----+-----+
| empno | ename  | job      | mgr  | hiredate | sal    | comm    | deptno |
+-----+-----+-----+-----+-----+-----+-----+-----+
| 7369  | SMITH  | CLERK    | 7902 | 1980-12-17 | 800.00 | NULL    | 20      |
| 7499  | ALLEN  | SALESMAN | 7698 | 1981-02-20 | 1600.00 | 300.00  | 30      |
| 7521  | WARD   | SALESMAN | 7698 | 1981-02-22 | 1250.00 | 500.00  | 30      |
| 7566  | JONES  | MANAGER  | 7839 | 1981-04-02 | 2975.00 | NULL    | 20      |
| 7654  | MARTIN | SALESMAN | 7698 | 1981-09-28 | 1250.00 | 1400.00 | 30      |
| 7698  | BLAKE  | MANAGER  | 7839 | 1981-05-01 | 2850.00 | NULL    | 30      |
| 7782  | CLARK  | MANAGER  | 7839 | 1981-06-09 | 2450.00 | NULL    | 10      |
| 7788  | SCOTT  | ANALYST  | 7566 | 1982-12-09 | 3000.00 | NULL    | 20      |
| 7839  | KING   | PRESIDENT | NULL | 1981-11-17 | 5000.00 | NULL    | 10      |
| 7844  | TURNER | SALESMAN | 7698 | 1981-09-08 | 1500.00 | 0.00    | 30      |
| 7876  | ADAMS  | CLERK    | 7788 | 1983-01-12 | 1100.00 | NULL    | 20      |
| 7900  | JAMES  | CLERK    | 7698 | 1981-12-03 | 950.00  | NULL    | 30      |
| 7902  | FORD   | ANALYST  | 7566 | 1981-12-03 | 3000.00 | NULL    | 20      |
| 7934  | MILLER | CLERK    | 7782 | 1982-01-23 | 1300.00 | NULL    | 10      |
| 1001  | gopal  | NULL     | NULL | NULL      | 4000.00 | NULL    | NULL    |
| 1002  | Queen  | Rest     | NULL | NULL      | NULL    | NULL    | NULL    |
| 1003  | Dasi   | Kaam     | NULL | NULL      | NULL    | NULL    | NULL    |
| 1003  | Arjit  | sing     | NULL | NULL      | NULL    | NULL    | NULL    |
| 7143  | RAJESH | NULL     | NULL | NULL      | 5000.00 | NULL    | 30      |
+-----+-----+-----+-----+-----+-----+-----+-----+
19 rows in set (0.01 sec)

```

```

mysql> select empno,ename,job,hiredate,datediff(currdate(),hiredate) from emp;
ERROR 1305 (42000): FUNCTION impact.currdate does not exist
mysql> select empno,ename,job,hiredate,datediff(current_date(),hiredate) from emp;
+-----+-----+-----+-----+-----+
| empno | ename  | job      | hiredate | datediff(current_date(),hiredate) |
+-----+-----+-----+-----+-----+
| 7369  | SMITH  | CLERK    | 1980-12-17 | 15800 |
| 7499  | ALLEN  | SALESMAN | 1981-02-20 | 15735 |
| 7521  | WARD   | SALESMAN | 1981-02-22 | 15733 |
| 7566  | JONES  | MANAGER  | 1981-04-02 | 15694 |
| 7654  | MARTIN | SALESMAN | 1981-09-28 | 15515 |
| 7698  | BLAKE  | MANAGER  | 1981-05-01 | 15665 |
| 7782  | CLARK  | MANAGER  | 1981-06-09 | 15626 |
| 7788  | SCOTT  | ANALYST  | 1982-12-09 | 15078 |
| 7839  | KING   | PRESIDENT | 1981-11-17 | 15465 |
| 7844  | TURNER | SALESMAN | 1981-09-08 | 15535 |
| 7876  | ADAMS  | CLERK    | 1983-01-12 | 15044 |
| 7900  | JAMES  | CLERK    | 1981-12-03 | 15449 |
| 7902  | FORD   | ANALYST  | 1981-12-03 | 15449 |
| 7934  | MILLER | CLERK    | 1982-01-23 | 15398 |
| 1001  | gopal  | NULL     | NULL      | NULL |
| 1002  | Queen  | Rest     | NULL      | NULL |
| 1003  | Dasi   | Kaam     | NULL      | NULL |
| 1003  | Arjit  | sing     | NULL      | NULL |
| 7143  | RAJESH | NULL     | NULL      | NULL |
+-----+-----+-----+-----+-----+
19 rows in set (0.00 sec)

```

```

mysql> select empno,ename,job,hiredate,datediff(current_date(),hiredate) as Experience from emp;
+-----+-----+-----+-----+-----+
| empno | ename  | job      | hiredate | Experience |
+-----+-----+-----+-----+-----+
| 7369  | SMITH  | CLERK    | 1980-12-17 | 15800 |
| 7499  | ALLEN  | SALESMAN | 1981-02-20 | 15735 |
| 7521  | WARD   | SALESMAN | 1981-02-22 | 15733 |
| 7566  | JONES  | MANAGER  | 1981-04-02 | 15694 |
| 7654  | MARTIN | SALESMAN | 1981-09-28 | 15515 |
| 7698  | BLAKE  | MANAGER  | 1981-05-01 | 15665 |
| 7782  | CLARK  | MANAGER  | 1981-06-09 | 15626 |
| 7788  | SCOTT  | ANALYST  | 1982-12-09 | 15078 |
| 7839  | KING   | PRESIDENT | 1981-11-17 | 15465 |
| 7844  | TURNER | SALESMAN | 1981-09-08 | 15535 |
| 7876  | ADAMS  | CLERK    | 1983-01-12 | 15044 |
| 7900  | JAMES  | CLERK    | 1981-12-03 | 15449 |
| 7902  | FORD   | ANALYST  | 1981-12-03 | 15449 |
| 7934  | MILLER | CLERK    | 1982-01-23 | 15398 |
| 1001  | gopal  | NULL     | NULL      | NULL |
| 1002  | Queen  | Rest     | NULL      | NULL |
| 1003  | Dasi   | Kaam     | NULL      | NULL |
| 1003  | Arjit  | sing     | NULL      | NULL |
| 7143  | RAJESH | NULL     | NULL      | NULL |
+-----+-----+-----+-----+-----+
19 rows in set (0.00 sec)

```

```

mysql> select '2019-08-04' actual,
-> date_add('2019-08-04',interval 1 day) 'Added 1 day',
-> date_add('2019-08-04',interval 1 week) 'Added 1 week',
-> date_add('2019-08-04',interval 1 month) 'Added 1 month',
-> date_add('2019-08-04',interval 1 year) 'Added 1 year';
+-----+-----+-----+-----+-----+
| actual | Added 1 day | Added 1 week | Added 1 month | Added 1 year |
+-----+-----+-----+-----+-----+
| 2019-08-04 | 2019-08-05 | 2019-08-11 | 2019-09-04 | 2020-08-04 |
+-----+-----+-----+-----+-----+
1 row in set (0.00 sec)

```

```

mysql> select extract(day from '2020-08-04');
+-----+
| extract(day from '2020-08-04') |
+-----+
| 4 |
+-----+
1 row in set (0.00 sec)

```

```

mysql> select extract(month from '2020-08-04');
+-----+
| extract(month from '2020-08-04') |
+-----+
| 8 |
+-----+
1 row in set (0.00 sec)

```

```

mysql> select extract(year from '2020-08-04');
+-----+
| extract(year from '2020-08-04') |
+-----+
| 2020 |
+-----+
1 row in set (0.00 sec)

mysql> select extract(year_month from '2020-08-04');
+-----+
| extract(year_month from '2020-08-04') |
+-----+
| 202008 |
+-----+
1 row in set (0.00 sec)

mysql> select str_to_date('2020-08-04');
ERROR 1582 (42000): Incorrect parameter count in the call to native function 'str_to_date'
mysql> select str_to_date();
ERROR 1582 (42000): Incorrect parameter count in the call to native function 'str_to_date'
mysql> SELECT STR_TO_DATE("August 10 2017", "%M %d %Y");
+-----+
| STR_TO_DATE("August 10 2017", "%M %d %Y") |
+-----+
| 2017-08-10 |
+-----+
1 row in set (0.04 sec)

mysql>
mysql>
Display all 901 possibilities? (y or n)
mysql>                                     #TRIGGER
-> ;
Query OK, 0 rows affected (0.03 sec)

mysql> show tables;
+-----+
| Tables_in_impact |
+-----+
| course |
| course_5 |
| customer_1 |
| dept |
| dept_u1 |
| dept_u2 |
| emp |
| emp14 |
| emp15 |
| emp_select |
| emp_v2 |
| emp_withdata |
| emp_withoutdata |
| marks |
| product_1 |
| salgrade |
| stud_info |
| student |
| student_5 |
| student_course |
| test_v12 |
| users |
+-----+
22 rows in set (0.29 sec)

mysql> select * from emp14;
+-----+
| empno | ename | sal |
+-----+
| 101 | smith | 4000.00 |
+-----+
1 row in set (0.01 sec)

mysql> delimiter//
-> ;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'delim
iter//' at line 1
mysql> delimiter //
mysql> create trigger trg_emp14
-> before insert on emp14
-> for each row
-> begin
-> set new.ename=upper(new.ename);
-> end //
Query OK, 0 rows affected (0.07 sec)

mysql> delimiter ;
mysql> select * from emp14;
+-----+
| empno | ename | sal |
+-----+
| 101 | smith | 4000.00 |
+-----+
1 row in set (0.01 sec)

mysql> insert into emp14 values(102,'raju',3000);
Query OK, 1 row affected (0.00 sec)

mysql> select *from emp14l
-> ;
ERROR 1146 (42S02): Table 'impact.emp14l' doesn't exist
mysql> select *from emp14;
+-----+
| empno | ename | sal |
+-----+
| 101 | smith | 4000.00 |
| 102 | RAJU | 3000.00 |
+-----+
2 rows in set (0.00 sec)

mysql> insert into emp14 values(103,'ARchit',30000),(104,'aDu',500);
Query OK, 2 rows affected (0.00 sec)
Records: 2 Duplicates: 0 Warnings: 0

mysql> select *from emp14;
+-----+
| empno | ename | sal |
+-----+

```

101	smith	4000.00
102	RAJU	3000.00
103	ARCHIT	30000.00
104	ADU	500.00

4 rows in set (0.00 sec)

```
mysql> create table product_2(pid int primary key auto_increment,pname varchar(20),price int);
Query OK, 0 rows affected (0.12 sec)
```

```
mysql> alter table product auto_increment=7001;
ERROR 1146 (42S02): Table 'impact.product' doesn't exist
mysql> insert into product_2(pname,price) values('tv',5000);
Query OK, 1 row affected (0.02 sec)
```

```
mysql> create table product_2_backup(pid int,createdby varchar(20),createddate date);
Query OK, 0 rows affected (0.02 sec)
```

```
mysql> delimiter //
mysql> create trigger trg_product_2
-> after insert on product_2
-> for each row
-> begin
-> declare vUser varchar(20);
-> select user() into vUser;
-> insert into product_2_backup values(last_insert_id(),vUser,current_date());
-> end //
Query OK, 0 rows affected (0.02 sec)
```

```
mysql> delimiter ;
mysql> insert into product_2 (pname,price) values('lp',10000);
Query OK, 1 row affected (0.01 sec)
```

```
mysql> select * from product_2;
+-----+-----+-----+
| pid | pname | price |
+-----+-----+-----+
| 1 | tv | 5000 |
| 2 | lp | 10000 |
+-----+-----+-----+
2 rows in set (0.00 sec)
```

```
mysql> select * from product_2_backup;
+-----+-----+-----+
| pid | createdby | createddate |
+-----+-----+-----+
| 1 | root@localhost | 2024-03-21 |
+-----+-----+-----+
1 row in set (0.00 sec)
```

```
mysql> delimiter ;
ERROR 1050 (42S01): Table 'emp15' already exists
mysql> create table emp16(empno varchar(10), ename varchar(10), sal float);
Query OK, 0 rows affected (0.03 sec)
```

```
mysql> create trigger trg_emp15
-> before insert on emp15
-> //
-> ;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near '//' a
t line 3
mysql> delimiter //
mysql> create trigger tgr_emp16
-> before insert on emp16
-> for each row
-> begin
-> set new.empno=concat('PU_',new.empno);
-> end //
Query OK, 0 rows affected (0.01 sec)
```

```
mysql> insert into emp15 values(5010,'smith',3000);
-> //
Query OK, 1 row affected (0.02 sec)
```

```
mysql> select * from emp15//
+-----+-----+-----+
| empno | ename | sal |
+-----+-----+-----+
| 1 | smith | 3000.00 |
| 5010 | smith | 3000.00 |
+-----+-----+-----+
2 rows in set (0.00 sec)
```

```
mysql> insert into emp16 values(5010,'smith',3000)//
Query OK, 1 row affected (0.01 sec)
```

```
mysql> select * from emp16//
+-----+-----+-----+
| empno | ename | sal |
+-----+-----+-----+
| PU_5010 | smith | 3000 |
+-----+-----+-----+
1 row in set (0.00 sec)
```

```
mysql> create table studentdetails(sid int(4),sname varchar(10),m1 int(3),m2 int(3),m3 int(3),total int(5));
-> //
Query OK, 0 rows affected, 5 warnings (0.09 sec)
```

```
mysql> delimiter ;
mysql> delimiter //
mysql> create trigger trg_sd
-> before insert on studentdetails
-> for each row
-> begin
-> set new.total=(m1+m2+m3);
-> end //
Query OK, 0 rows affected (0.02 sec)
```

```
mysql> delimiter ;
mysql> drop trg_sd;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'trg_s
d' at line 1
mysql> drop trigger trg_sd;
Query OK, 0 rows affected (0.01 sec)
```

```
mysql> create trigger trg_sd
-> before insert on
```

```

-> studentdetails
-> for each row
-> begin
-> set new.total = new.m1+new.m2+new.m3;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near '' at
line 6
mysql> delimiter //
mysql> create trigger trg_sd
-> before insert on studentdetails
-> for each row
-> beginset new.total = new.m1+new.m2+new.m3;
-> end //
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'new.t
otal = new.m1+new.m2+new.m3;
end' at line 4
mysql> create trigger trg_sdcreate trigger trg_sd
-> create trigger trg_sd//
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'trigg
er trg_sd
create trigger trg_sd' at line 1
mysql> create trigger trg_sd
-> before insert on studentdetails
-> for each row
-> begin
-> set new.total = new.m1+new.m2+new.m3;
-> end //
Query OK, 0 rows affected (0.02 sec)

mysql> delimiter ;
mysql> insert into studentdetails (sid,sname,m1,m2,m3) values(1,'rahul',69,60,70);
Query OK, 1 row affected (0.01 sec)

mysql> select * from studentdetails;
+-----+-----+-----+-----+-----+
| sid | sname | m1 | m2 | m3 | total |
+-----+-----+-----+-----+-----+
| 1 | rahul | 69 | 60 | 70 | 199 |
+-----+-----+-----+-----+-----+
1 row in set (0.01 sec)

mysql> show tables;
+-----+
| Tables_in_impact |
+-----+
| course            |
| course_5          |
| customer_1        |
| dept              |
| dept_u1           |
| dept_u2           |
| emp               |
| emp14             |
| emp15             |
| emp16             |
| emp_select        |
| emp_v2            |
| emp_withdata      |
| emp_withoutdata   |
| marks             |
| product_1         |
| product_2         |
| product_2_backup  |
| salgrade          |
| stud_info         |
| student           |
| student_5         |
| student_course    |
| studentdetails    |
| test_v12          |
| users             |
+-----+
26 rows in set (0.08 sec)

mysql> create table emp_base(empno int,ename varchar(20),sal float);
Query OK, 0 rows affected (0.11 sec)

mysql> create table emp_base_backup(n_ename varchar(20),o_ename varchar(20),n_sal float,o_sal float,created_by varchar(30),created_on date);
Query OK, 0 rows affected (0.04 sec)

mysql> mysql> alter table emp_base_backup add empno int;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'table
r table emp_base_backup add empno int' at line 1
mysql> alter table emp_base_backup add empno int;
Query OK, 0 rows affected (0.02 sec)
Records: 0 Duplicates: 0 Warnings: 0

mysql> insert into emp_base values(1001,'smith',3000);
Query OK, 1 row affected (0.01 sec)

mysql> insert into emp_base values(1002,'raju',4000);
Query OK, 1 row affected (0.00 sec)

mysql> delimiter //
mysql> create trigger trg_emp_base
-> before update on emp_base
-> for each row
-> begin
-> declare vUser varchar(20);
-> select user() into vUser;
-> insert into emp_base_backup values(new.ename,old.ename,new.sal,old.sal,vUser,current_date()),old.empno);
-> end //
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'old.e
mpno);
end' at line 7
mysql> create trigger trg_emp_base
-> create trigger trg_emp_base
->
-> for each row
-> begin
-> declare vUser varchar(20);
-> select user() into vUser;
-> insert into emp_base_backup values(new.ename,old.ename,new.sal,old.sal,vUser,current_date(),old.empno);
-> end //
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'creat
e trigger trg_emp_base
for each row

```



```

begin
declare vUser varchar(20);
select * at line 2
mysql> create trigger trg_emp_base
-> before update on emp_base
-> for each row
-> begin
-> declare vUser varchar(20);
-> select user() into vUser;
-> insert into emp_base_backup values(new.ename,old.ename,new.sal,old.sal,vUser,current_date(),old.empno);
-> end //
Query OK, 0 rows affected (0.01 sec)

mysql> select * from emp_base;
-> //
+-----+-----+-----+
| empno | ename | sal |
+-----+-----+-----+
| 1001 | smith | 3000 |
| 1002 | raju | 4000 |
+-----+-----+-----+
2 rows in set (0.00 sec)

mysql> delimiter ;
mysql> select * from emp_base_backup;
Empty set (0.00 sec)

mysql> update emp_base set ename = 'martin',sal=5000 where empno=1002;
Query OK, 1 row affected (0.01 sec)
Rows matched: 1 Changed: 1 Warnings: 0

mysql> select * from emp_base;
+-----+-----+-----+
| empno | ename | sal |
+-----+-----+-----+
| 1001 | smith | 3000 |
| 1002 | martin | 5000 |
+-----+-----+-----+
2 rows in set (0.00 sec)

mysql> select * from emp_base_backup;
+-----+-----+-----+-----+-----+-----+-----+
| n_ename | o_ename | n_sal | o_sal | created_by | created_on | empno |
+-----+-----+-----+-----+-----+-----+-----+
| martin | raju | 5000 | 4000 | root@localhost | 2024-03-21 | 1002 |
+-----+-----+-----+-----+-----+-----+-----+
1 row in set (0.00 sec)

mysql> create table emp_base_delete_backup select * from emp_base;
Query OK, 2 rows affected (0.10 sec)
Records: 2 Duplicates: 0 Warnings: 0

mysql> select * from emp_base_backup;
+-----+-----+-----+-----+-----+-----+-----+
| n_ename | o_ename | n_sal | o_sal | created_by | created_on | empno |
+-----+-----+-----+-----+-----+-----+-----+
| martin | raju | 5000 | 4000 | root@localhost | 2024-03-21 | 1002 |
+-----+-----+-----+-----+-----+-----+-----+
1 row in set (0.01 sec)

mysql> select * from emp_base_delete_backup;
+-----+-----+-----+
| empno | ename | sal |
+-----+-----+-----+
| 1001 | smith | 3000 |
| 1002 | martin | 5000 |
+-----+-----+-----+
2 rows in set (0.00 sec)

mysql> truncate emp_base_delete_backup;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'tranc
ute emp_base_delete_backup' at line 1
mysql> truncate table emp_base_delete_backup;
Query OK, 0 rows affected (0.03 sec)

mysql> select * from emp_base_delete_backup;1
Empty set (0.00 sec)

-> ;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'l' at
line 1
mysql> alter table emp_base_delete_backup add created_by varchar(20) and deleted_on date;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'and d
eleted_on date' at line 1
mysql> alter table emp_base_delete_backup add created_by varchar(20) , deleted_on date;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'delet
ed_on date' at line 1
mysql> alter table emp_base_delete_backup add created_by varchar(20);
Query OK, 0 rows affected (0.01 sec)
Records: 0 Duplicates: 0 Warnings: 0

mysql> alter table emp_base_delete_backup add deleted_on date;
Query OK, 0 rows affected (0.01 sec)
Records: 0 Duplicates: 0 Warnings: 0

mysql> select * from emp_base_delete_backup;
Empty set (0.00 sec)

mysql> desc emp_base_delete_backup;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| empno | int | YES | | NULL | |
| ename | varchar(20) | YES | | NULL | |
| sal | float | YES | | NULL | |
| created_by | varchar(20) | YES | | NULL | |
| deleted_on | date | YES | | NULL | |
+-----+-----+-----+-----+-----+-----+
5 rows in set (0.03 sec)

mysql> create trigger trg_emp_base_delete
-> before delete on emp_base
-> for each row
-> begin
-> declare vUser varchar(20);
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near '' at
line 5

```

```
mysql> delimiter //  
mysql> create trigger trg_emp_base_delete  
-> before delete on emp_base  
-> for each row  
-> begin  
-> declare vUser varchar(20);  
-> select user() into vUser;  
-> insert into emp_base_delete_backup values(old.empno,old.ename,old.sal,vUser,current_date());  
-> end //
```

Query OK, 0 rows affected (0.01 sec)

```
mysql> delimiter ;  
mysql> select * from emp_base;
```

empno	ename	sal
1001	smith	3000
1002	Martin	5000

2 rows in set (0.01 sec)

```
mysql> delete from emp_base where empno=1002;
```

Query OK, 1 row affected (0.00 sec)

```
mysql> select * from emp_base;
```

empno	ename	sal
1001	Smith	3000

1 row in set (0.00 sec)

```
mysql> select * from emp_base_delete_backup;
```

empno	ename	sal	created_by	deleted_on
1002	Martin	5000	root@localhost	2024-03-21

1 row in set (0.00 sec)

```
mysql> show trigger from impact where `table`='emp_base';  
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'trigger from impact where `table`='emp_base'' at line 1  
mysql> show triggers from impact where `table`='emp_base';
```

Trigger	Event	Table	Statement	Timing	Created	sql_mode
			Definer		character_set_client	collation_connection Database Collation
trg_emp_base	UPDATE	emp_base	begin declare vUser varchar(20); select user() into vUser; insert into emp_base_backup values(new.ename,old.ename,new.sal,old.sal,vUser,current_date(),old.empno); end BEFORE 2024-03-21 15:28:31.49 ONLY_FULL_GROUP_BY,STRICT_TRANS_TABLES,NO_ZERO_IN_DATE,NO_ZERO_DATE,ERROR_FOR_DIVISION_BY_ZERO,NO_ENGINE_SUBSTITUTION root@localhost utf8mb4 utf8mb4_0900_ai_ci utf8mb4_0900_ai_ci			
trg_emp_base_delete	DELETE	emp_base	begin declare vUser varchar(20); select user() into vUser; insert into emp_base_delete_backup values(old.empno,old.ename,old.sal,vUser,current_date()); end BEFORE 2024-03-21 15:43:28.45 ONLY_FULL_GROUP_BY,STRICT_TRANS_TABLES,NO_ZERO_IN_DATE,NO_ZERO_DATE,ERROR_FOR_DIVISION_BY_ZERO,NO_ENGINE_SUBSTITUTION root@localhost utf8mb4 utf8mb4_0900_ai_ci utf8mb4_0900_ai_ci			

2 rows in set (0.08 sec)

```
mysql>
```