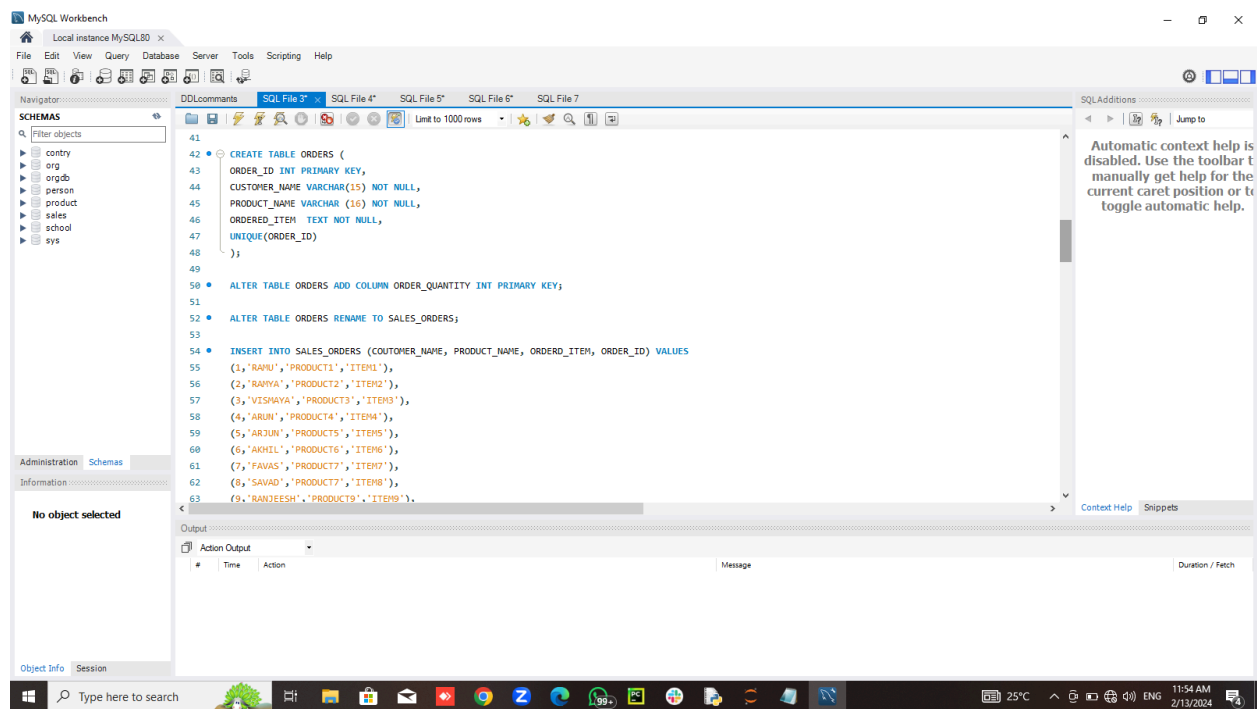
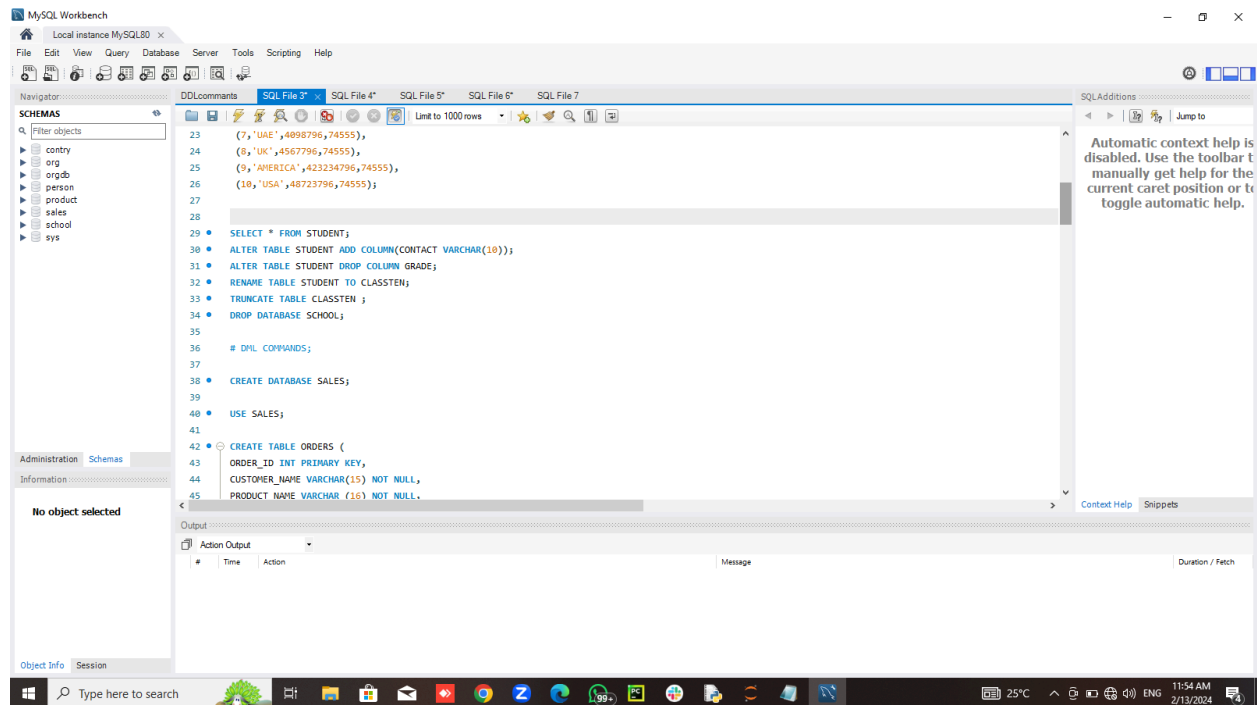
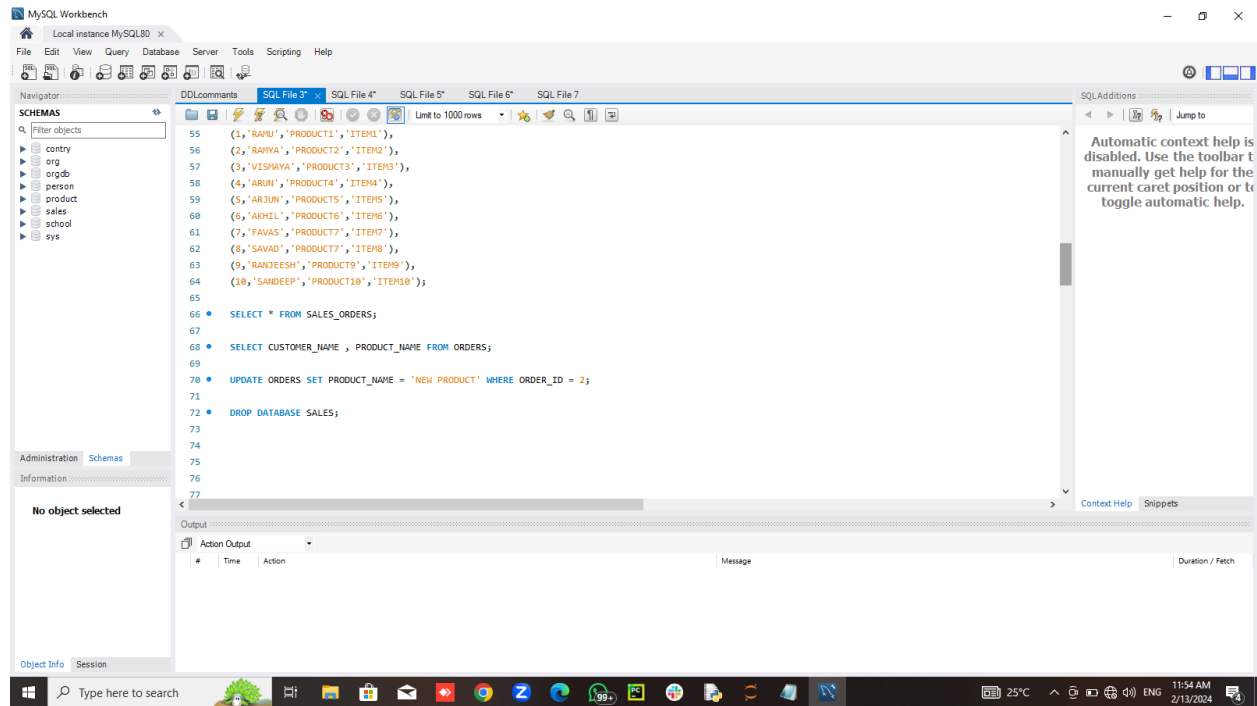
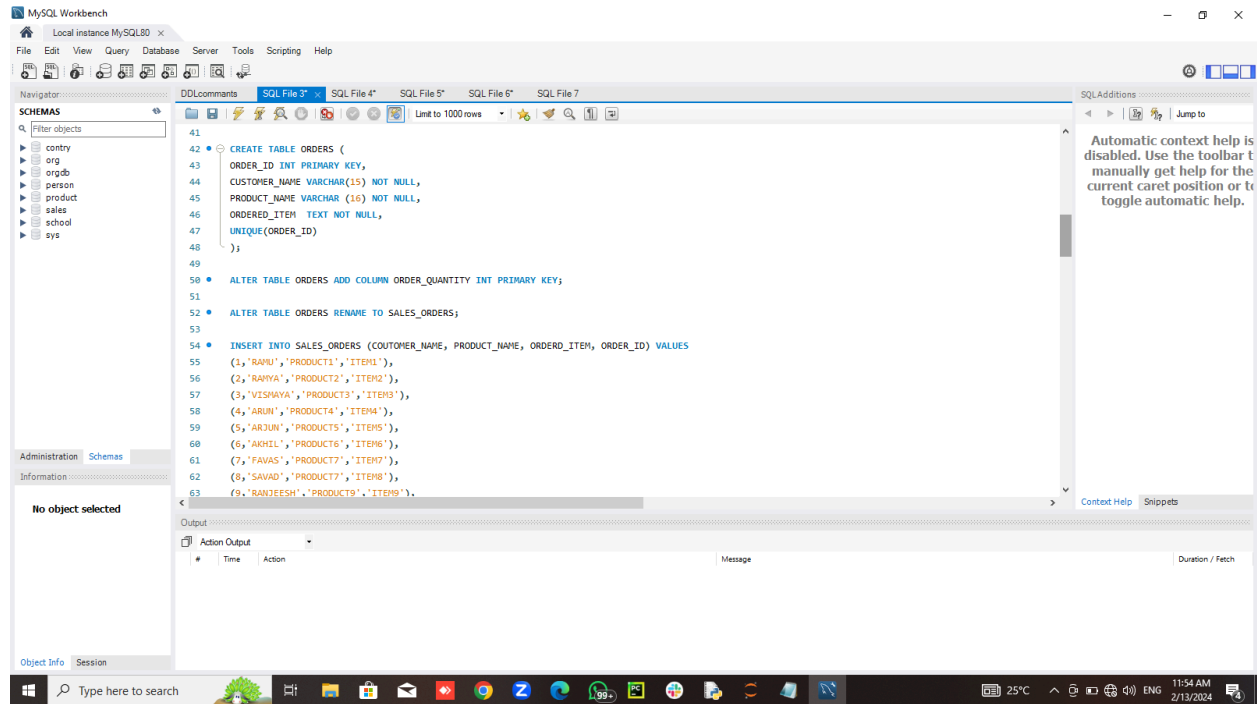


TASK-1 [DDL COMMANDS]



TASK2-[DML COMMANDS]



TASK-1 [JOINS]

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

- contry
- org
- orgdb
- person
- product
- sales
- school
- sys

Administration Schemas

Information

No object selected

Object Info Session

DDLComments SQL File 3* SQL File 4* SQL File 5* SQL File 6* SQL File 7

Limit to 1000 rows

```
108 #[join]
109
110 • create database Contry;
111
112 • use Contry;
113
114 • create table Contry (
115     id int primary key,
116     Contry_name varchar(30),
117     Population int,
118     area int);
119
120 • insert into Contry (id,Contry_name,population,area) values
121     (1,'india',100000,98007),
122     (2,'uae',3000000,1234),
123     (3,'usa',500078,9876),
124     (4,'dubai',900006,34567),
125     (5,'saudia',600000,34567),
126     (6,'qatar',400000,84666),
127     (7,'sharja',4899889,555509),
128     (8,'oman',9000000,12345),
129     (9,'uk',2000000,56789),
130     (10,'asia',4000000,9876543);
```

Output

Action Output

#	Time	Action	Message	Duration / Fetch
---	------	--------	---------	------------------

SQLAdditions

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

Context Help Snippets

Type here to search

30°C

7:27 PM

2/13/2024

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

- contry
- org
- orgdb
- person
- product
- sales
- school
- sys

Administration Schemas

Information

No object selected

Object Info Session

DDLComments SQL File 3* SQL File 4* SQL File 5* SQL File 6* SQL File 7

Limit to 1000 rows

```
132 • select * from Contry;
133
134
135 • create table person(
136     id int,
137     fname varchar(30),
138     lname varchar(30),
139     population int,
140     rating int,
141     country_id int,
142     country_name varchar(30)
143 );
144
145 • insert into person(id,fname,lname,population,rating,country_id,country_name)values
146     (1,'anu','a',748888,8,56,'india'),
147     (2,'manu','doy',98788,4,78,'uk'),
148     (3,'marya','mahi',24242,5,88,'usa'),
149     (4,'vishnu','vahi',2567,9,98,'france'),
150     (5,'kavya','kavu',36788,8,90,'qatar'),
151     (6,'dona','don',23455,5,67,'italy'),
152     (7,'preethi','priya',64555,1,12,'orisa'),
153     (8,'priyanka','priyamvara',74878,8,56,'assam'),
154     (9,'ihone','tomv',67488,6,78,'soudia').
```

Output

Action Output

#	Time	Action	Message	Duration / Fetch
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SQLAdditions

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

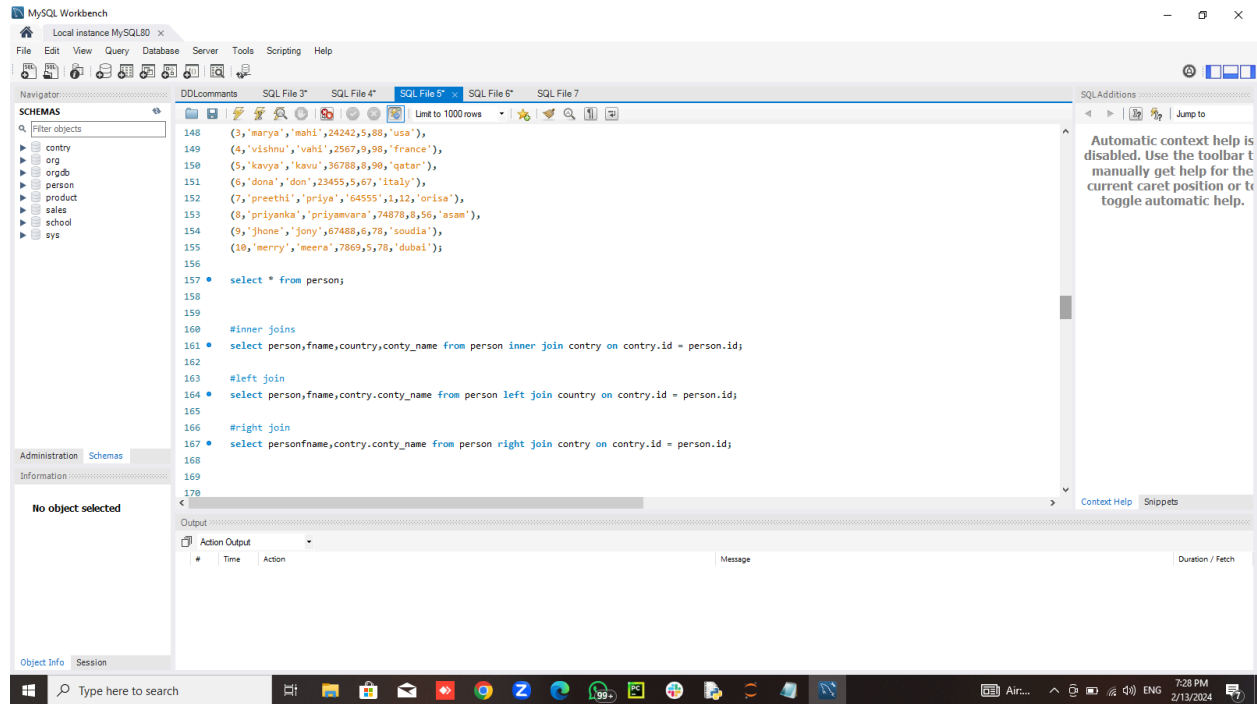
Context Help Snippets

Type here to search

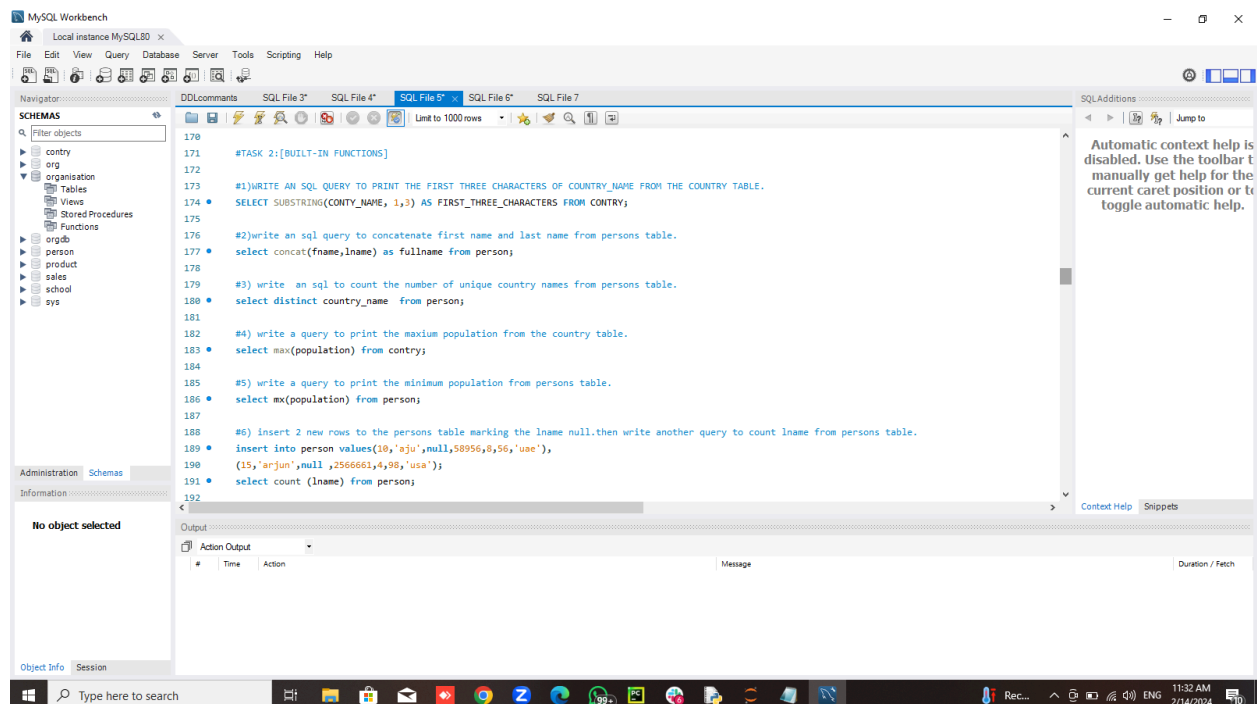
30°C

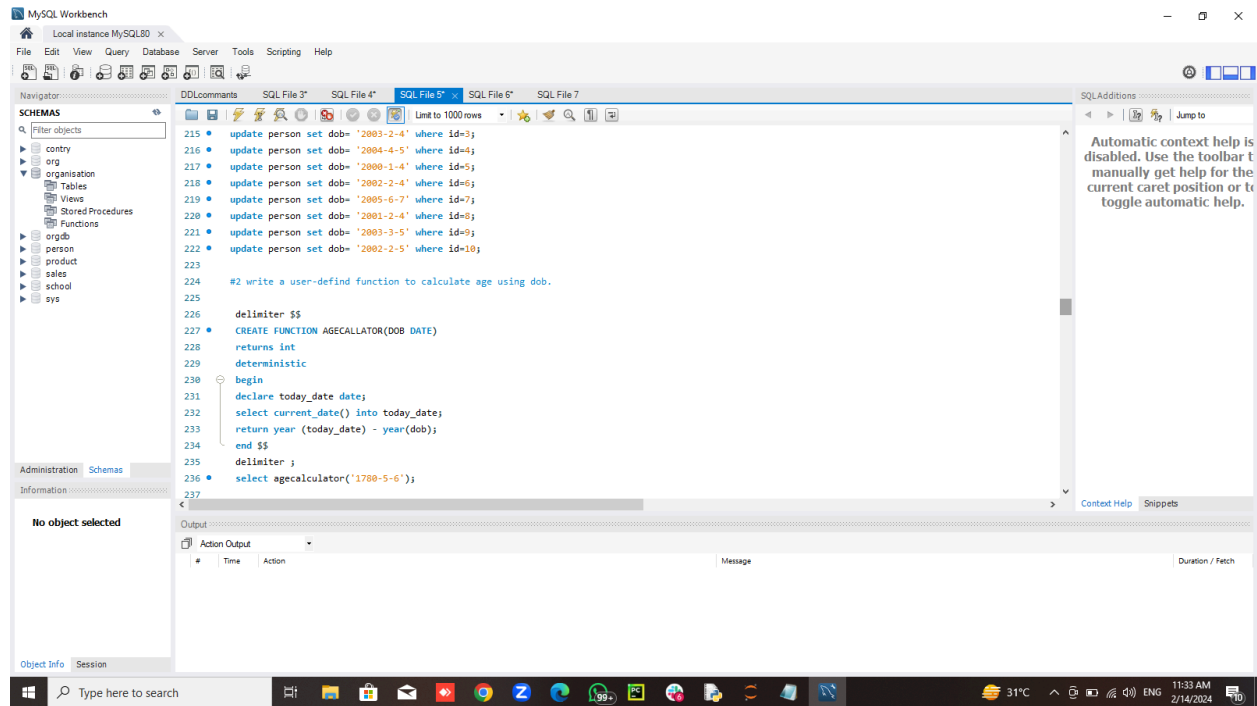
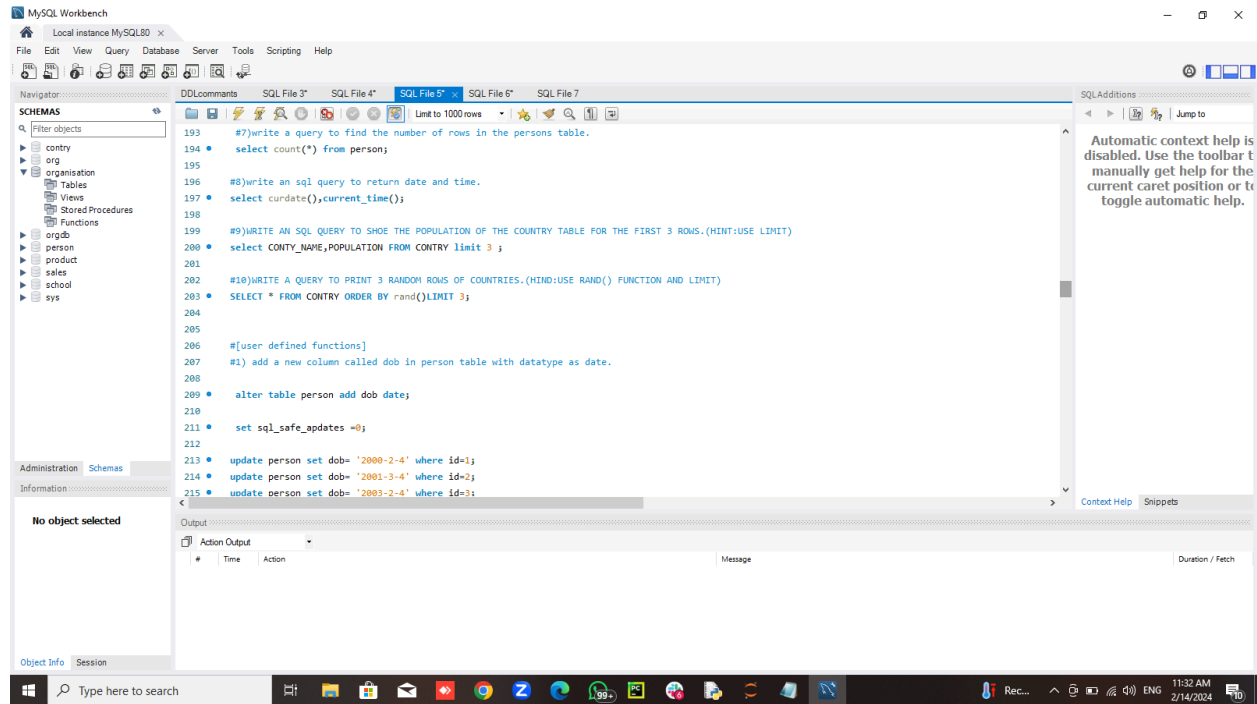
7:28 PM

2/13/2024

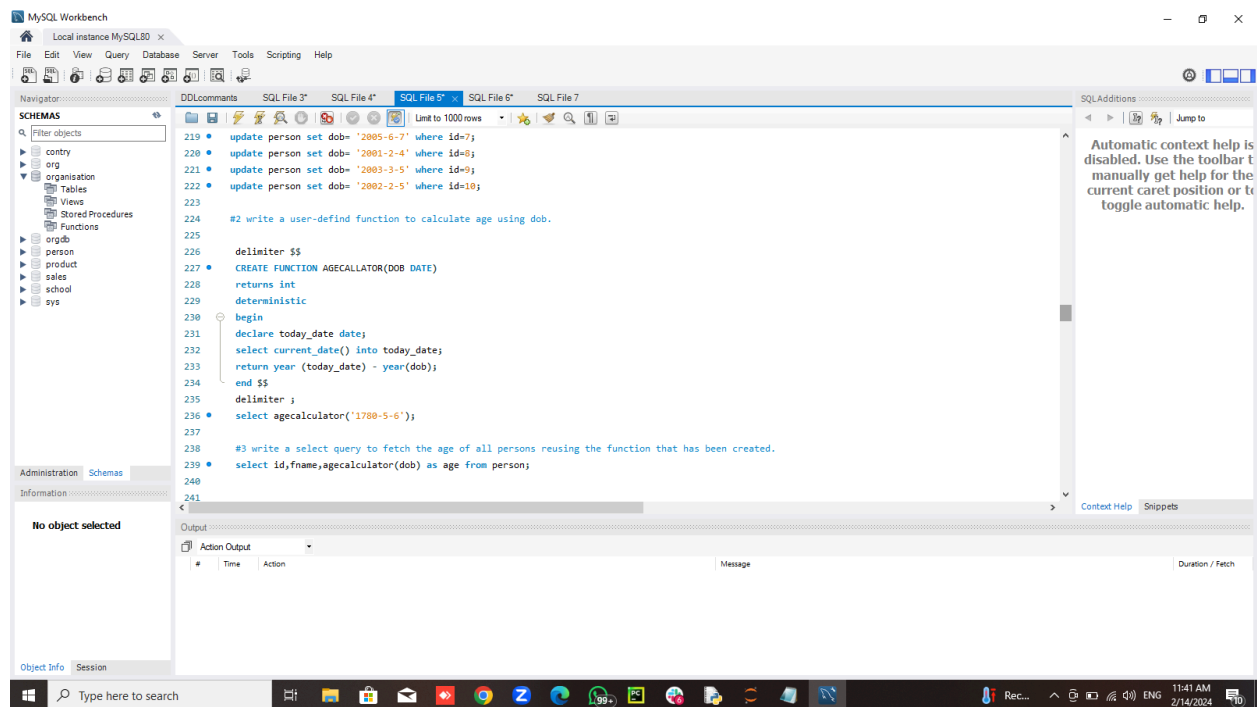
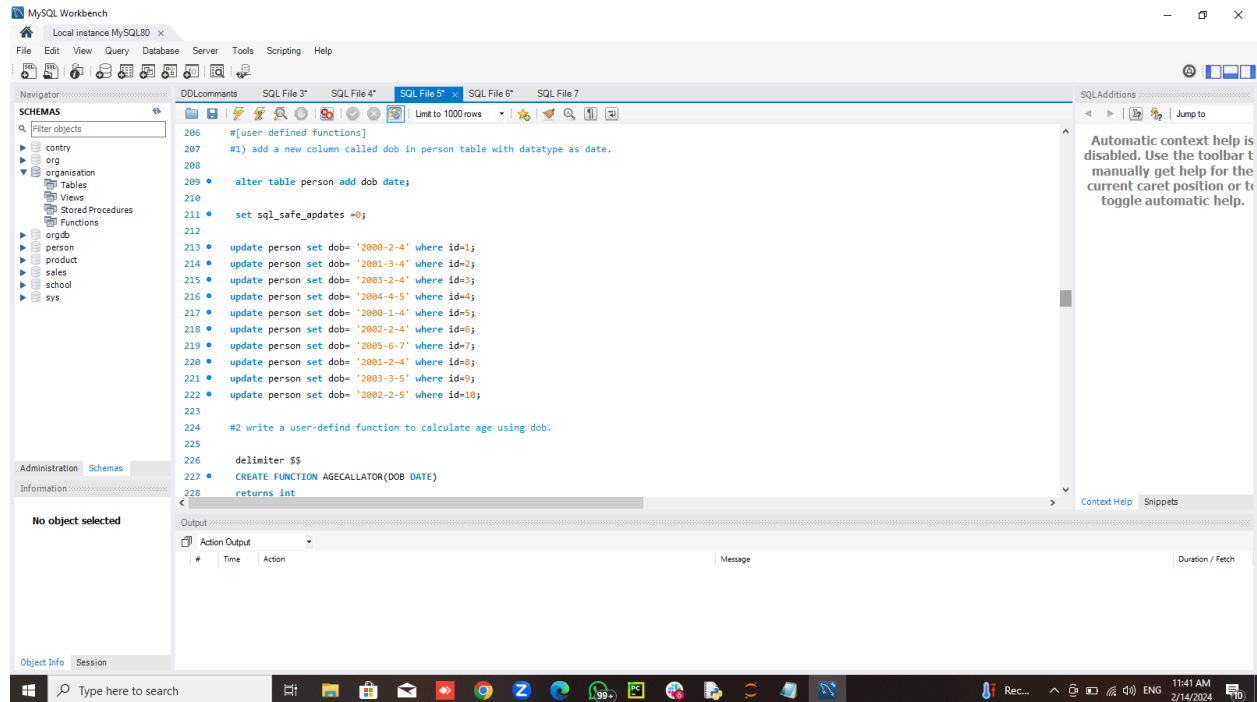


TASK-2 [BUILT- IN FUNCTION]

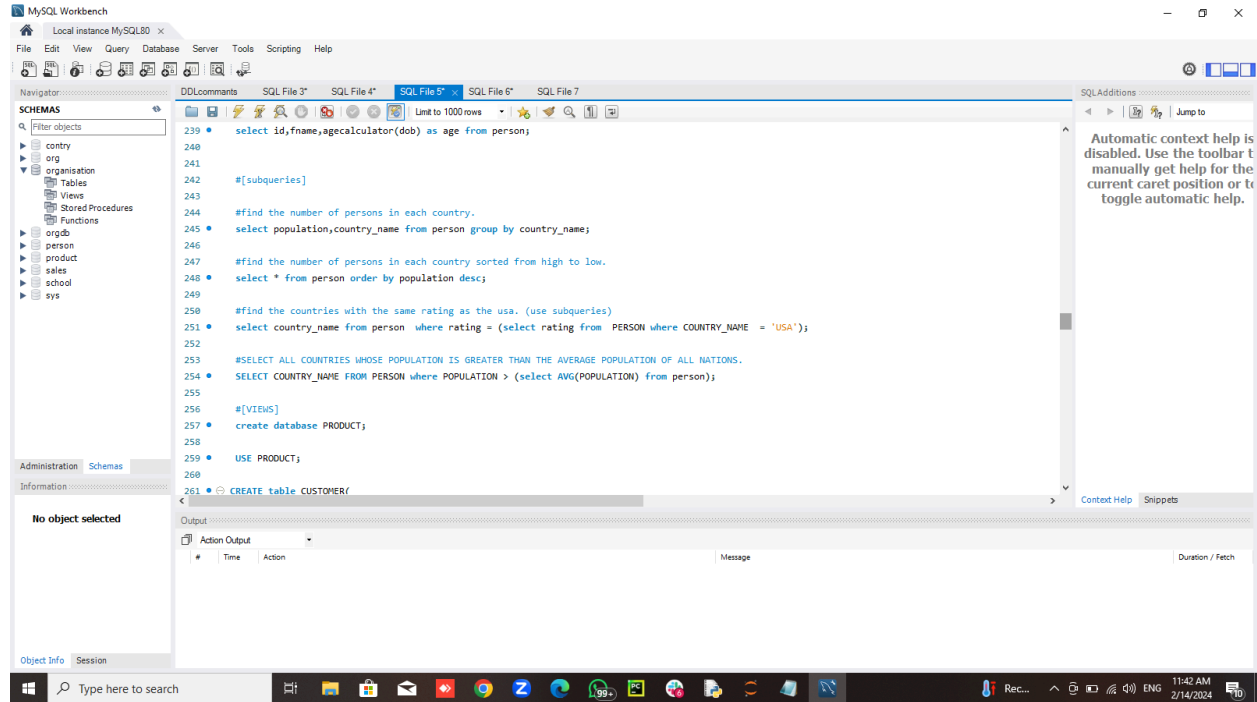




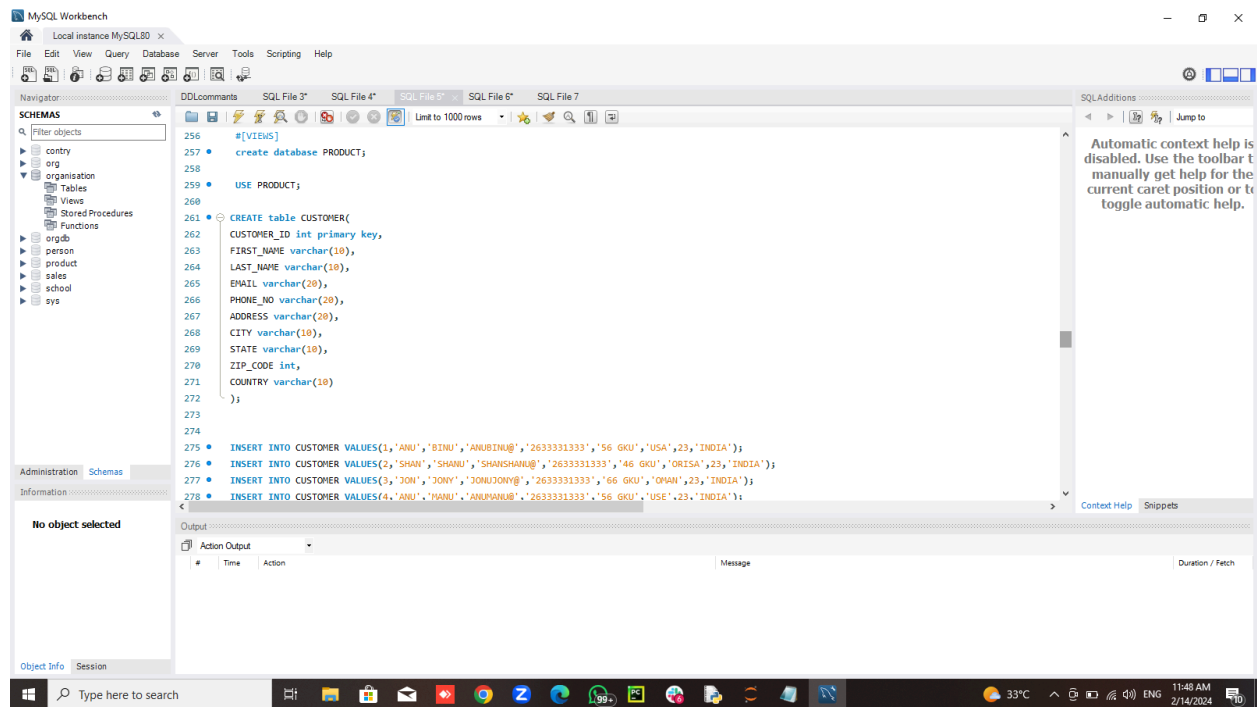
TASK-3 [USER DEFINED FUNCTION]

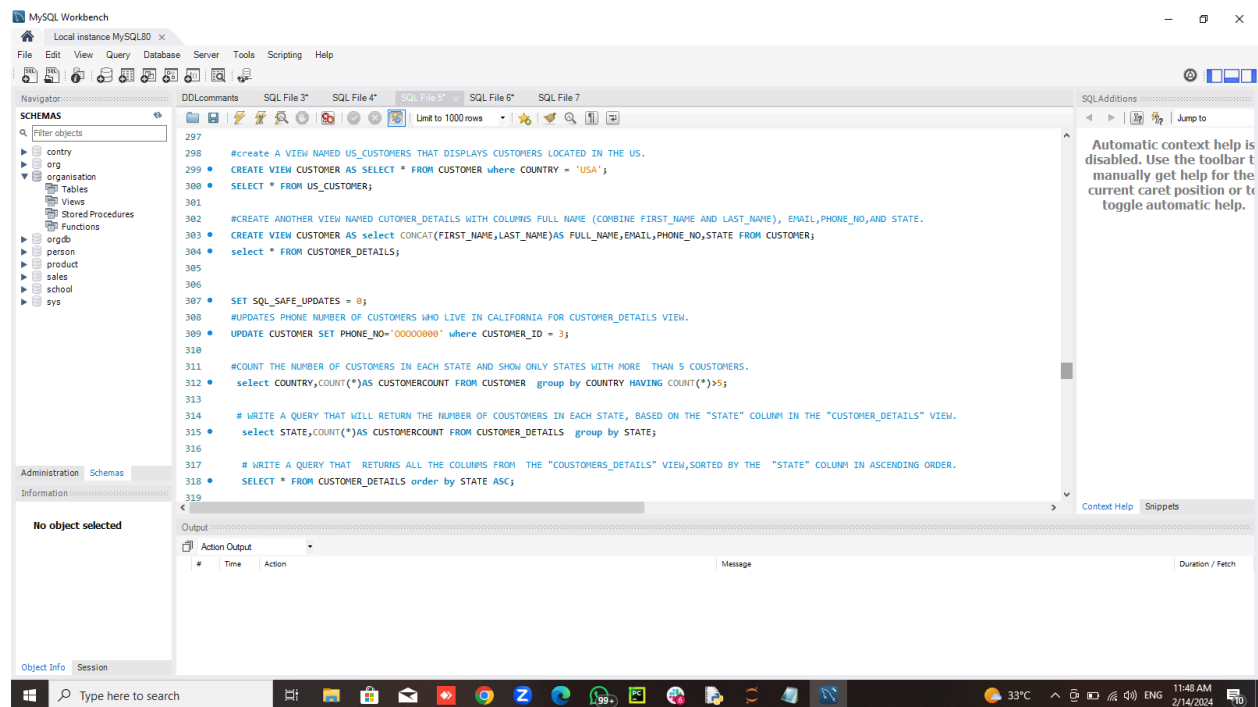
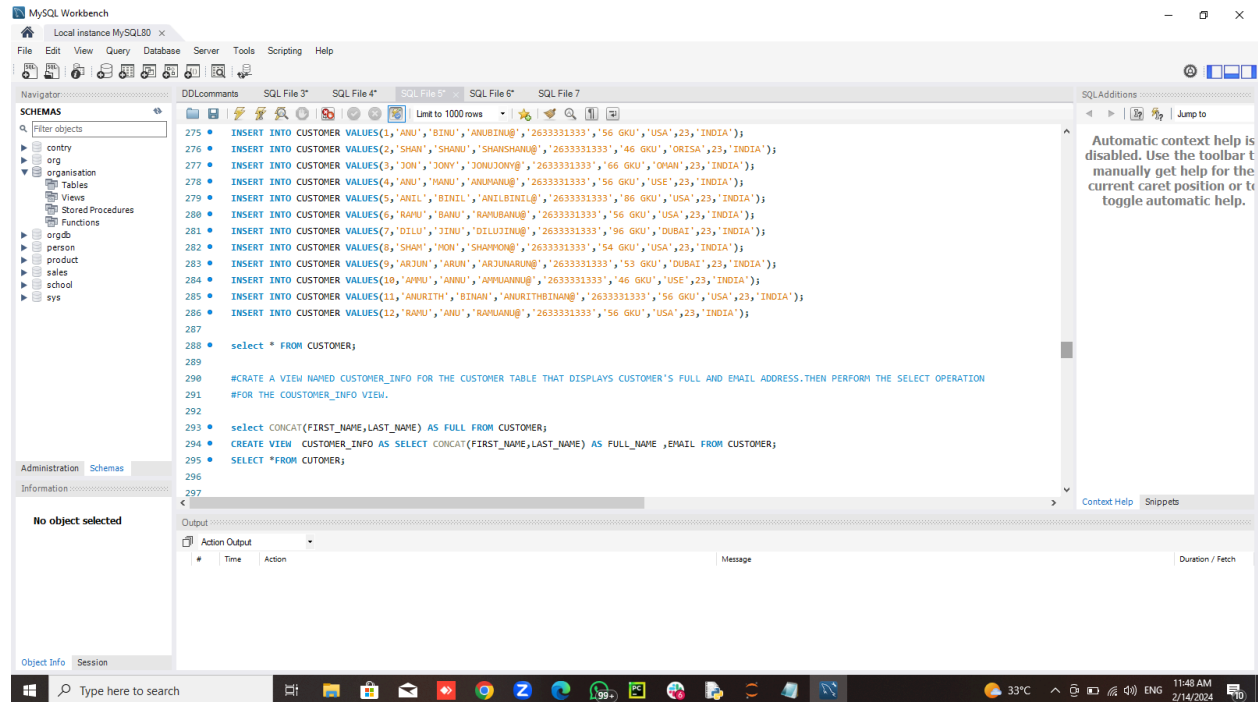


TASK-7 [SUBQUERIES]



TASK-8 [VIEWS]





TASK-9 [STORED PROCEDURES]

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHMAS

Filter objects

- contry
- org
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 - Tables
 - Views
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- orgdb
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- product
- sales
- school
- sys

Administration Schemas

Information

No object selected

Object Info Session

DDLComments SQL File 3* SQL File 4* SQL File 5* SQL File 6* SQL File 7

Limit to 1000 rows

```
322 #[stored procedures]
323
324 • create database organisation;
325
326 • use organisation;
327
328 • create table worker(
329     EmpCode INT PRIMARY KEY,
330     Fname VARCHAR(15),
331     Lastname VARCHAR(15),
332     Age INT,
333     Gender VARCHAR(10),
334     City VARCHAR(30),
335     Hiredate DATE ,
336     Salary INT ,
337     Dept_code INT
338 );
339
340
341
342 • INSERT INTO worker (EmpCode, Fname, Lastname, Age, Gender, City, Hiredate, Salary, Dept_code) VALUES
343     (101, 'Jane', 'Doe',24,'Female','Delhi','2022-01-01', 89000, 1),
344     (102, 'Jane', 'Smith',25,'Female','Kolkata','2022-01-01', 90500, 2),
```

Output

Action Output

#	Time	Action	Message	Duration / Fetch
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Context Help Snippets

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHMAS

Filter objects

- contry
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- organisation
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- sys

Administration Schemas

Information

No object selected

Object Info Session

DDLComments SQL File 3* SQL File 4* SQL File 5* SQL File 6* SQL File 7

Limit to 1000 rows

```
343 (101, 'Jane', 'Doe',24,'Female','Delhi','2022-01-01', 89000, 1),
344 (102, 'Jane', 'Smith',25,'Female','Kolkata','2022-01-01', 90500, 2),
345 (103, 'Bob', 'Johnson',22,'Male','Kolkata','2022-01-01', 70400, 3),
346 (104, 'Alice', 'Williams',23,'Female','Delhi', '2022-12-01',9500, 4),
347 (105, 'Charlie', 'Brown',22,'Male','Mumbai','2023-03-09', 6000, 5),
348 (106, 'Eva', 'Davis',22,'Female', 'Mumbai','2023-03-09',45000, 6),
349 (107, 'Arun', 'Miller',24,'Male','Chennai','2023-03-09', 80200, 7),
350 (108, 'Sophia', 'Wilson',28,'Female','Chennai','2023-03-09', 8200, 8),
351 (109, 'David', 'Moore',28,'Male','Chennai','2023-05-15', 52500,9),
352 (110, 'Bob', 'Anderson',25,'Male','Chennai', '2023-05-15',9500, 10);
353
354 • insert INTO worker (EmpCode, Fname, Lastname, Age, Gender, City, Hiredate, Salary, Dept_code) values
355     (111, 'Anna', 'D',27,'Female', 'Bangalore','2010-08-06',80000, 1),
356     (112, 'Annie', 'Roy',35,'Female','Hyderabad','2020-07-08',950000, 2),
357     (113, 'Irene', 'Sajan',34,'Female','Bangalore','2020-04-21', 8000, 3),
358     (114, 'Sujithra', 'Rae',26,'Female','Bangalore','2021-04-21', 90500, 4),
359     (115, 'Ashwathy', 'Ajayan',27,'Female','Hyderabad', '2019-04-21', 58000, 1);
360
361 • select * from worker;
362
363 #create a stored procedure that takes in IN parameters for all the columns in the worker table and adds a new record to the table and
364 #then invokes the procedure call.
365
```

Output

Action Output

#	Time	Action	Message	Duration / Fetch
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Context Help Snippets

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

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- Views
- Stored Procedures
- Functions
- orgdb
- person
- product
- sales
- school
- sys

Administration Schemas

Information

No object selected

Object Info Session

DDLComments SQL File 3* SQL File 4* SQL File 5* SQL File 6* SQL File 7

Limit to 1000 rows

```
363 #create a stored procedure that takes in IN parameters for all the columns in the worker table and
364 #then invokes the procedure call.
365
366 delimiter $$
367
368 • create procedure add_user(in emp_code int,
369 in fname varchar(20),
370 in lastname varchar(20),
371 in age int,
372 in gender varchar(20),
373 in city varchar(10),
374 in hiredate date,
375 in salary int,
376 in dept_code int )
377
378 begin
379
380 insert into worker (emp_code,fname,lname,age,,gender,hiredate,salary,dept_code) VALUES
381 end $$
382 delimiter ;
383
384 • call add_user(117,'lakshmi','sini',45,'female','india','2022-4-5',57978,32);
385
```

Output

Action Output

#	Time	Action	Message	Duration / Fetch
---	------	--------	---------	------------------

Context Help Snippets

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

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- org
- organisation
- Tables
- Views
- Stored Procedures
- Functions
- orgdb
- person
- product
- sales
- school
- sys

Administration Schemas

Information

No object selected

Object Info Session

DDLComments SQL File 3* SQL File 4* SQL File 5* SQL File 6* SQL File 7

Limit to 1000 rows

```
385
386 #write stored procedure takes in an in parameter for worker for worker_id and an out parameter for salary, it should retrieve the salary
387 #of the worker with me given id and return it in the p_salary parameter.then make the procedure call.
388
389 delimiter $$
390
391 • create procedure get_salary(inout id int,inout p_salary int)
392
393 begin
394
395 select SALARY INTO P_SALARY FROM WORKER where EMPCODE = ID;
396 END $$
397 DELIMITER ;
398
399 • SET @ID = 110;
400 • CALL GET_SALARY(@ID,@P_SALARY);
401 • SELECT @ID,@P_SALARY;
402
403 #write stored procedure takes in in parameter for worker for worker_id and department. it should update the department
404 #of the worker with the given id.then make a procedure call.
405
406 delimiter $$
407
```

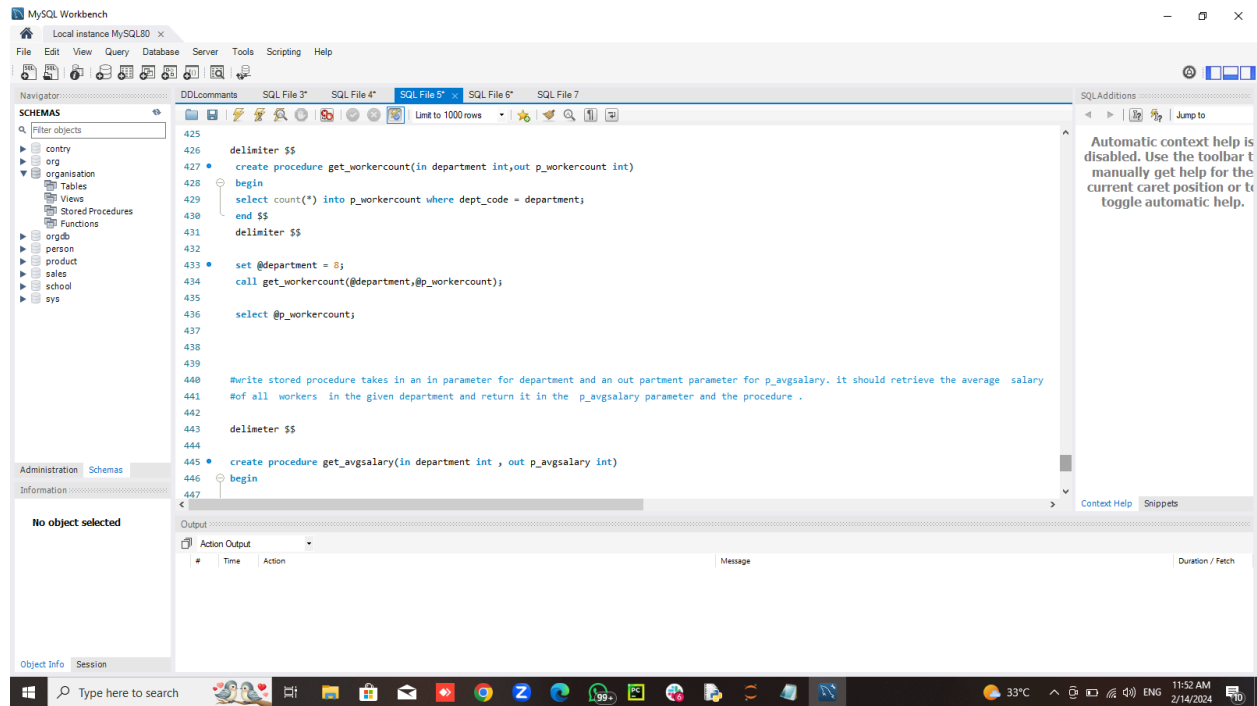
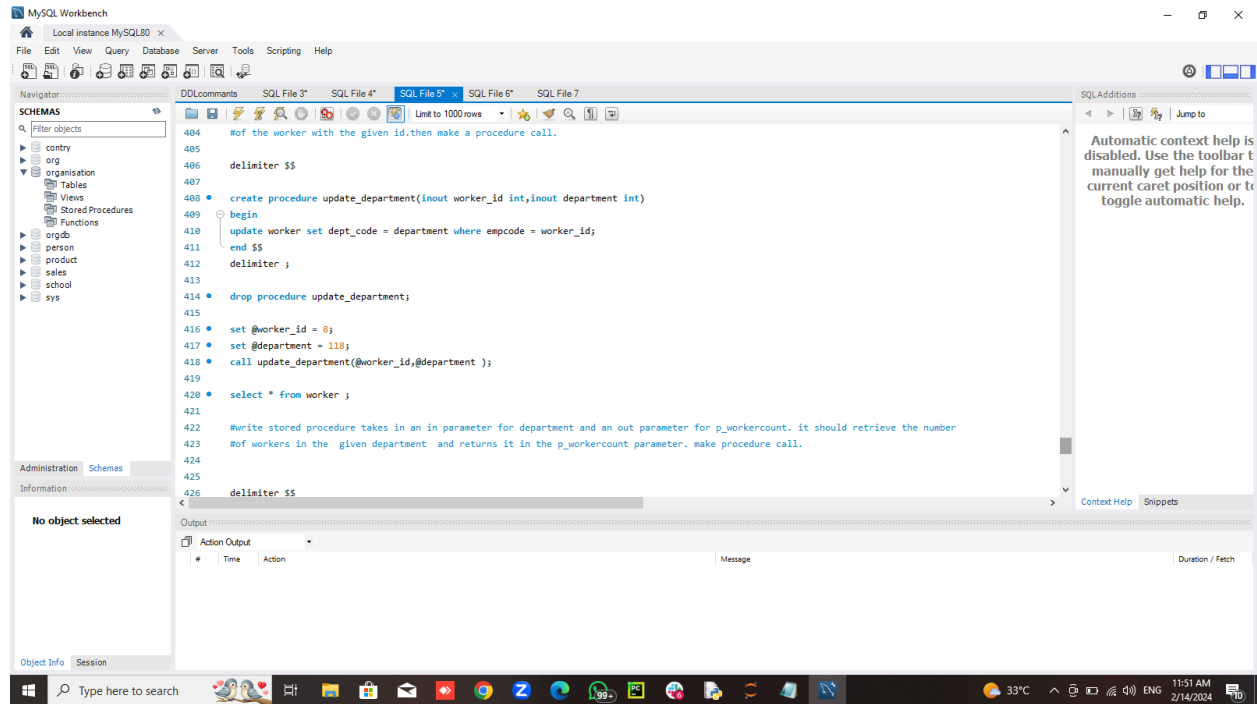
Output

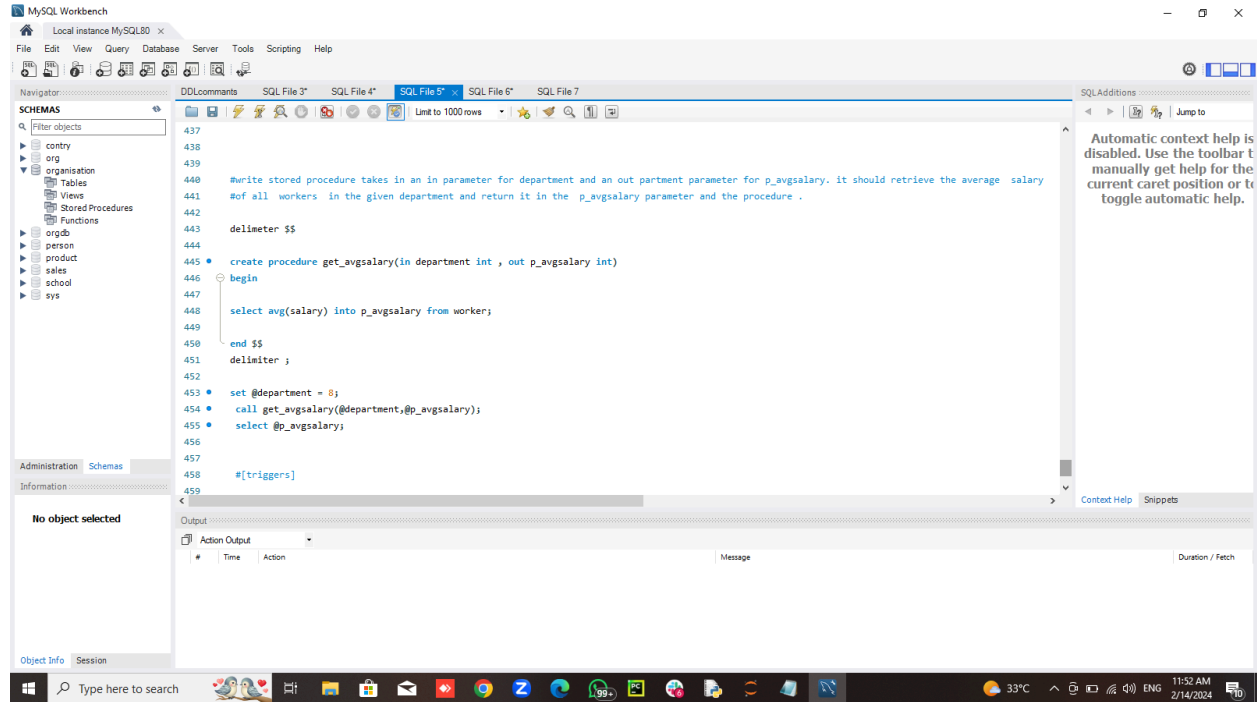
Action Output

#	Time	Action	Message	Duration / Fetch
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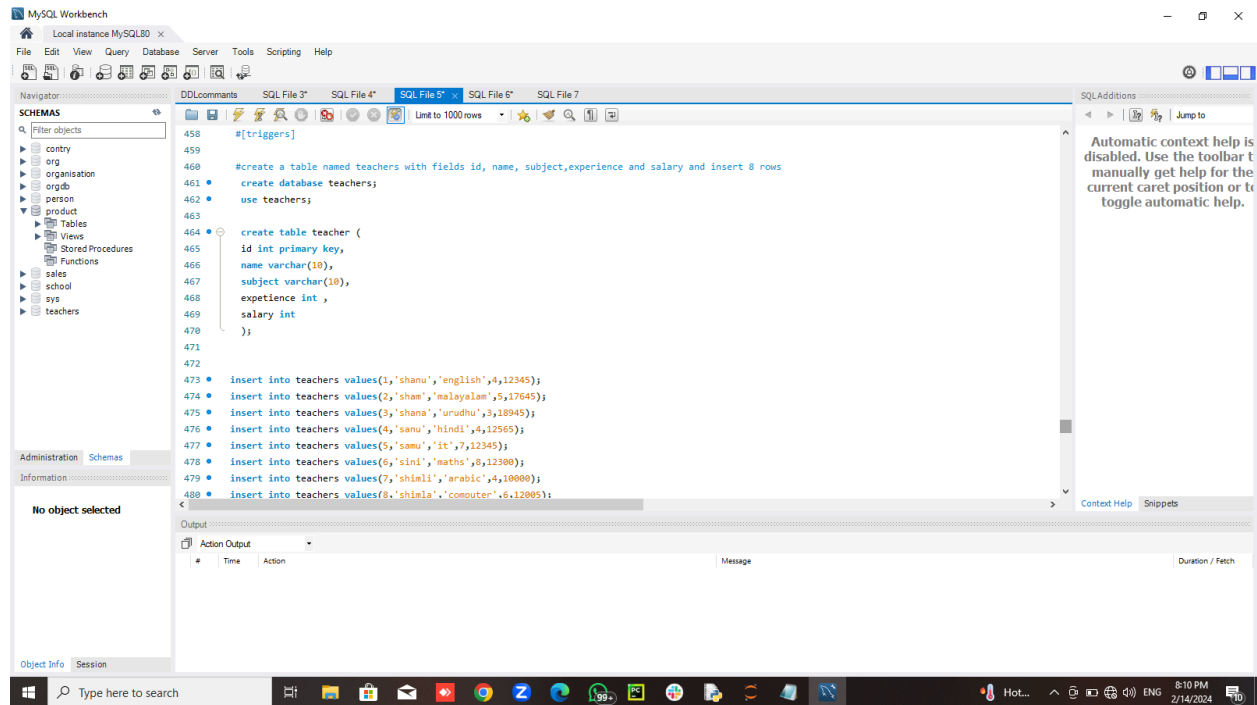
Context Help Snippets

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.





TASK-10 [TRIGGERS]



MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

- country
- org
- organisation
- orgdb
- person
- product
- Tables
- Views
- Stored Procedures
- Functions
- sales
- school
- sys
- teachers

Administration Schemas

Information

No object selected

Object Info Session

DDLComments SQL File 3* SQL File 4* SQL File 5* SQL File 6* SQL File 7

Limit to 1000 rows

```
477 • insert into teachers values(5,'samu','it',7,12345);
478 • insert into teachers values(6,'sini','maths',8,12300);
479 • insert into teachers values(7,'shinli','arabic',4,10000);
480 • insert into teachers values(8,'shinla','computer',6,12005);
481
482 • select * from teacher;
483
484 #create a before insert trigger named befor_insert_teacher that will raise an error "salary cannot be negative" if the salary inserted
485 #to the table is less than zero.
486
487 delimiter $$
488
489 • create trigger before_insert_teacher
490 before insert on teacher for each row
491 begin
492 if new.salary <= 0 then
493 signal sqlstate '46000' set message_text = 'salary cannot be negative';
494 end if;
495 end $$
496 delimiter ;
497 • show triggers ;
498
499 • insert into teacher values(9,'ziya','english',4,21000);
```

Output

Action Output

#	Time	Action	Message	Duration / Fetch
---	------	--------	---------	------------------

SQLAdditions

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

Context Help Snippets

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

- country
- org
- organisation
- orgdb
- person
- product
- Tables
- Views
- Stored Procedures
- Functions
- sales
- school
- sys
- teachers

Administration Schemas

Information

No object selected

Object Info Session

DDLComments SQL File 3* SQL File 4* SQL File 5* SQL File 6* SQL File 7

Limit to 1000 rows

```
499 • insert into teacher values(9,'ziya','english',4,21000);
500 • insert into teacher values(10,'ziyad','english',2,1000);
501
502
503 #create an after insert trigger named after_insert_teacher that inserts a row with teacher_id,action,timestamp to a table called teacher_log
504 #when a new gets inserted to the teacher table.teacher_id -> column of teacher table, action -> the trigger action,timestamp -> time at which
505 #the new has got inserted.
506
507 • create table teacher_log(
508 log_id int primary key auto_increment,
509 teacher_id int,
510 action varchar(10),
511 timestamp timestamp
512 );
513
514 • select * from teacher_log;
515
516 delimiter $$
517
518 • create trigger after_insert_teacher
519 after insert on teacher for each row
520 begin
521 insert into teacher_log (teacher_id,action,timestamp) values (new.id , 'insert',now());
```

Output

Action Output

#	Time	Action	Message	Duration / Fetch
---	------	--------	---------	------------------

SQLAdditions

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

Context Help Snippets

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

- country
- org
- organisation
- orgdb
- person
- product
- Tables
- Views
- Stored Procedures
- Functions
- sales
- school
- sys
- teachers

Administration Schemas

Information

No object selected

Object Info Session

DDLComments SQL File 3* SQL File 4* SQL File 5* SQL File 6* SQL File 7

Limit to 1000 rows

```
520 begin
521 insert into teacher_log (teacher_id,action,timestamp)values (new.id , 'insert',now());
522 end $$
523
524 delimiter ;
525
526 drop trigger after_insert_teacher;
527 show triggers;
528
529 insert into teacher values(11,'ramu','malayalam',6,21000);
530 insert into teacher values(12,'roman','english',4,34000);
531
532 #create a befor delete trigger that will raise an error when you try to delete a row that has experience greater than 10 years.
533
534 drop trigger before_delete;
535 delimiter $$
536 create trigger before_delete
537 before delete on teacher for each row
538 begin
539 if old.experience > 10 then
540 signal sqlstate '23000' set message_text = 'cannot delete the row...experience is good ';
541 end if ;
542 end $$
```

SQLAdditions

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

Context Help Snippets

Output

Action Output

#	Time	Action	Message	Duration / Fetch
---	------	--------	---------	------------------

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

- country
- org
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- orgdb
- person
- product
- Tables
- Views
- Stored Procedures
- Functions
- sales
- school
- sys
- teachers

Administration Schemas

Information

No object selected

Object Info Session

DDLComments SQL File 3* SQL File 4* SQL File 5* SQL File 6* SQL File 7

Limit to 1000 rows

```
536 create trigger before_delete
537 before delete on teacher for each row
538 begin
539 if old.experience > 10 then
540 signal sqlstate '23000' set message_text = 'cannot delete the row...experience is good ';
541 end if ;
542 end $$
543
544 delete from teacher where id = 2;
545
546 #create an after delete trigger that will insert a row to teacher_log table when that row is deleted from teacher table.
547
548 delimiter $$
549
550 create trigger after_delete
551 after delete on teacher for each row
552 begin
553 insert into teacher_log (teacher_id, action,timestamp)values (old.id, 'delete', now());
554 end $$
555
556 delete from teacher where id = 2;
```

SQLAdditions

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

Context Help Snippets

Output

Action Output

#	Time	Action	Message	Duration / Fetch
---	------	--------	---------	------------------