

ANS:1

Query:

Table Creation:

```
create table Riders(
    rdr_id int primary key,
    rname varchar(35),
    vehicle varchar(40),
    vtype varchar(2),
    join_date date,
    total_rides int,
    income decimal,
    distance decimal
);
```

```
create table Passengers(
    pid int primary key,
    pname varchar(35),
    join_date date
);
```

```
create table Rides_Today(
    rd_id int primary key,
    rdr_id int,
    pid int,
    distance decimal(6,2),
    bill decimal
);
```

Data Population:

```
insert into riders (rdr_id, rname, vehicle, vtype, join_date, total_rides, income, distance)
values( 1, "Abrar Fahim", "Honda Civic", "C", str_to_date("20-03-2020", "%d-%c-%Y"), 75, 87000, 1200),
       ( 2, "Jafar Ahmed", "Yamaha R15", "B", str_to_date("12-01-2020", "%d-%c-%Y"), 55, 60000, 900),
       ( 3, "Jannatul Lamia", "Toyota Prius", "C", str_to_date("04-04-2020", "%d-%c-%Y"), 30, 33000, 350),
       ( 4, "Tanvir Ahmed", "Yamaha Pulsar", "B", str_to_date("01-12-2019", "%d-%c-%Y"), 105, 100000, 1370),
       ( 5, "Shahriar Alam", "Bajaj Discover", "B", str_to_date("25-01-2020", "%d-%c-%Y"), 5, 1000, 80),
       ( 6, "Ashfaq Nabid", "UM Sprt", "B", str_to_date("28-09-2020", "%d-%c-%Y"), 1, 350, 22),
       ( 7, "SM Sayem", "Toyota Corolla", "C", str_to_date("08-08-2020", "%d-%c-%Y"), 15, 5200, 190),
       ( 8, "Golam Haider", "Vespa", "B", str_to_date("16-03-2020", "%d-%c-%Y"), 45, 52000, 650);
```

```
insert into passengers( pid, pname, join_date)
```

```
values( 1, "Shahriar Chowdhury", str_to_date("02-01-2020", "%d-%c-%Y")),
       ( 2, "Jamal E Mollah", str_to_date("21-10-2019", "%d-%c-%Y")),
       ( 3, "Alvi Hossain", str_to_date("12-11-2020", "%d-%c-%Y")),
       ( 4, "Tonmoy Jaman", str_to_date("27-01-2020", "%d-%c-%Y")),
       ( 5, "Toukir Munshi", str_to_date("02-12-2019", "%d-%c-%Y")),
       ( 6, "Yakub Noby", str_to_date("24-12-2019", "%d-%c-%Y")),
       ( 7, "Mithila Rahman", str_to_date("27-02-2020", "%d-%c-%Y")),
```

```
( 8, "Jobbar Sheikh", str_to_date("14-03-2020","%d-%c-%Y")),
( 9, "Chunnu Wahidul", str_to_date("07-06-2020","%d-%c-%Y")),
( 10, "Rakib Hasan", str_to_date("29-08-2020","%d-%c-%Y"));
```

```
insert into rides_today( rd_id, rdr_id, pid, distance, bill)
```

```
values( 1, 1, 7, 14.3, 480),
```

```
( 2, 2, 10, 1.3, 40),
```

```
( 3, 4, 2, 8.9, 110),
```

```
( 4, 5, 4, 15.5, 260),
```

```
( 5, 7, 3, 5.1, 250),
```

```
( 6, 1, 7, 14.3, 510),
```

```
( 7, 1, 1, 9.5, 330),
```

```
( 8, 7, 6, 5.5, 280),
```

```
( 9, 8, 10, 8.2, 140),
```

```
( 10, 4, 8, 5.7, 90),
```

```
( 11, 2, 2, 3.4, 90),
```

```
( 12, 8, 6, 12.5, 165),
```

```
( 13, 4, 8, 15.6, 250),
```

```
( 14, 3, 6, 8.5, 290),
```

```
( 15, 4, 2, 5.1, 70);
```

Screenshots:

MySQL Workbench - CSE311L_04_Final_Exam

Query 1

```

1 • * create schema CSE311L_04_Final_Exam;
2   -- 01
3 • * create table Riders(
4     rdr_id int primary key,
5     rname varchar(35),
6     vehicle varchar(40),
7     vtype varchar(2),
8     join_date date,
9     total_rides int,
10    income decimal,
11    distance decimal
12 );

```

Result Grid

rdr_id	rname	vehicle	vtype	join_date	total_rides	income	distance
1	Abar Fahim	Honda Civic	C	2020-03-20	75	87000	1200
2	Jafer Ahmed	Yamaha R15	B	2020-01-12	55	60000	900
3	Jannatul Lame	Toyota Prius	C	2020-04-04	30	33000	350
4	Tanvir Ahmed	Yamaha Pulsar	B	2019-12-01	105	100000	1370
5	Shahriar Alam	Bajaj Discover	B	2020-01-25	5	1000	80
6	Ashfaq Nabil	UM Sprt	B	2020-09-28	1	350	22
7	SM Sayem	Toyota Corolla	C	2020-08-08	15	5200	190
8	Golam Haider	Vespa	B	2020-03-16	45	52000	650

Action Output

- Time Action Message Duration / Fetch
 - 15 22:08:17 select * from passengers LIMIT 0, 500 10 row(s) returned 0.000 sec / 0.000 sec
 - 16 22:08:21 select * from rides_today LIMIT 0, 500 15 row(s) returned 0.000 sec / 0.000 sec
 - 17 22:39:26 select * from riders LIMIT 0, 500 8 row(s) returned 0.000 sec / 0.000 sec

MySQL Workbench - CSE311L_04_Final_Exam

Query 1

```

13 • * create table Passengers(
14     pid int primary key,
15     pname varchar(35),
16     join_date date
17 );
18

```

Result Grid

pid	pname	join_date
1	Shahriar Chowdhury	2020-01-02
2	Jamal E Molla	2019-10-21
3	Alvi Hossain	2020-11-12
4	Tonmoy Jaman	2020-09-09
5	Toufiq Munshi	2019-12-02
6	Mohibul Islam	2019-12-24
7	Mehfil Rahman	2020-02-27
8	Jabbar Sheikh	2020-03-14
9	Chumru Wahidul	2020-06-07
10	Rakib Hasan	2020-08-29

Action Output

- Time Action Message Duration / Fetch
 - 16 22:08:21 select * from rides_today LIMIT 0, 500 15 row(s) returned 0.000 sec / 0.000 sec
 - 17 22:39:26 select * from riders LIMIT 0, 500 8 row(s) returned 0.000 sec / 0.000 sec
 - 18 22:40:16 select * from passengers LIMIT 0, 500 10 row(s) returned 0.000 sec / 0.000 sec

MySQL Workbench

CSE311L_04_Final_Exam

Query 1

```

18 • create table Rides_Today(
19     rd_id int primary key,
20     rdr_id int,
21     pid int,
22     distance decimal(6,2),
23     bill decimal
24 );

```

Result Grid

rd_id	rdr_id	pid	distance	bill
1	1	7	14.30	480
2	2	10	1.30	40
3	4	2	8.90	110
4	5	4	15.50	260
5	7	3	5.10	250
6	1	7	14.30	510
7	1	1	9.50	330
8	7	6	5.50	280
9	8	10	8.20	140
10	4	8	5.70	90
11	2	2	3.40	90
12	8	6	12.50	165
13	4	8	15.60	250
14	3	6	8.50	290

Output

Action	Time	Action	Message	Duration / Fetch
17 22:39:26	select * from riders LIMIT 0, 500	8 row(s) returned	0.000 sec / 0.000 sec	
18 22:40:16	select * from passengers LIMIT 0, 500	10 row(s) returned	0.000 sec / 0.000 sec	
19 22:41:32	select * from rides_today LIMIT 0, 500	15 row(s) returned	0.000 sec / 0.000 sec	

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MySQL Workbench

CSE311L_04_Final_Exam

Query 1

```

24 );
25
26 • insert into riders (rdr_id, rname, vehicle, vtype, join_date, total_rides, income, distance)
27     values ( 1, "Abrar Fahim", "Honda Civic", "C", str_to_date("20-03-2020", "%d-%c-%Y"), 75, 87000, 1200),
28             ( 2, "Jafar Ahmed", "Yamaha R15", "B", str_to_date("12-01-2020", "%d-%c-%Y"), 55, 60000, 900),
29             ( 3, "Jannatul Lamia", "Toyota Prius", "C", str_to_date("04-04-2020", "%d-%c-%Y"), 30, 33000, 350),
30             ( 4, "Tanvir Ahmed", "Yamaha Pulsar", "B", str_to_date("01-12-2019", "%d-%c-%Y"), 105, 180000, 1370),
31             ( 5, "Shahriar Alam", "Bajaj Discover", "B", str_to_date("25-01-2020", "%d-%c-%Y"), 5, 1000, 80),
32             ( 6, "Ashfaq Nabid", "UM Sprt", "B", str_to_date("28-09-2020", "%d-%c-%Y"), 1, 350, 22),
33             ( 7, "SM Sayem", "Toyota Corolla", "C", str_to_date("08-08-2020", "%d-%c-%Y"), 15, 5200, 190),
34             ( 8, "Golam Haider", "Vespa", "B", str_to_date("16-03-2020", "%d-%c-%Y"), 45, 52000, 650);
35
36 • insert into passengers( pid, pname, join_date)
37     values ( 1, "Shahriar Chowdhury", str_to_date("02-01-2020", "%d-%c-%Y")),
38             ( 2, "Tawfiq F Mollah", str_to_date("21-10-2019", "%d-%c-%Y"));

```

Result Grid

rd_id	rdr_id	pid	distance	bill
1	1	7	14.30	480
2	2	10	1.30	40
3	4	2	8.90	110
4	5	4	15.50	260
5	7	3	5.10	250

Output

Action	Time	Action	Message	Duration / Fetch
17 22:39:26	select * from riders LIMIT 0, 500	8 row(s) returned	0.000 sec / 0.000 sec	
18 22:40:16	select * from passengers LIMIT 0, 500	10 row(s) returned	0.000 sec / 0.000 sec	
19 22:41:32	select * from rides_today LIMIT 0, 500	15 row(s) returned	0.000 sec / 0.000 sec	

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MySQL Workbench

CSE311L_04_Final_Exam

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

- cse311l_04_fall20
- cse311l_04_final_exam
 - Tables
 - passengers
 - riders
 - rides_today
 - Views
 - Stored Procedures
 - Functions
- cse311l_4_lab_01_assignment
- sakila
- sys
- vehicle_subscription
- world

Administration Schemas

Information

No object selected

Query 1

```

36 • insert into passengers( pid, pname, join_date)
37     values( 1, "Shahriar Chowdhury", str_to_date("02-01-2020", "%d-%c-%Y")),
38     ( 2, "Jamal E Mollah", str_to_date("21-10-2019", "%d-%c-%Y")),
39     ( 3, "Alvi Hossain", str_to_date("12-11-2020", "%d-%c-%Y")),
40     ( 4, "Tonnoy Jaman", str_to_date("27-01-2020", "%d-%c-%Y")),
41     ( 5, "Toukir Munshi", str_to_date("02-12-2019", "%d-%c-%Y")),
42     ( 6, "Yakub Noby", str_to_date("24-12-2019", "%d-%c-%Y")),
43     ( 7, "Mithila Rahman", str_to_date("27-02-2020", "%d-%c-%Y")),
44     ( 8, "Jobbar Sheikh", str_to_date("14-03-2020", "%d-%c-%Y")),
45     ( 9, "Chunnu Wahidul", str_to_date("07-06-2020", "%d-%c-%Y")),
46     ( 10, "Rakib Hasan", str_to_date("29-08-2020", "%d-%c-%Y"));

47
48 • insert into rides_today( rd_id, rdr_id, pid, distance, bill)
49     values( 1, 1, 7, 14.3, 480),
50     ( 2, 2, 10, 1.30, 40),
51     ( 3, 4, 2, 8.90, 110),
52     ( 4, 5, 4, 15.50, 260),
53     ( 5, 7, 3, 5.10, 250)
  
```

Result Grid

rd_id	rdr_id	pid	distance	bill
1	1	7	14.30	480
2	2	10	1.30	40
3	4	2	8.90	110
4	5	4	15.50	260
5	7	3	5.10	250

rides_today 6 x

Output

Action Output

Time	Action	Message	Duration / Fetch
17 22:39:26	select * from riders LIMIT 0, 500	8 row(s) returned	0.000 sec / 0.000 sec
18 22:40:16	select * from passengers LIMIT 0, 500	10 row(s) returned	0.000 sec / 0.000 sec
19 22:41:32	select * from rides_today LIMIT 0, 500	15 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

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MySQL Workbench

CSE311L_04_Final_Exam

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

- cse311l_04_fall20
- cse311l_04_final_exam
 - Tables
 - passengers
 - riders
 - rides_today
 - Views
 - Stored Procedures
 - Functions
- cse311l_4_lab_01_assignment
- sakila
- sys
- vehicle_subscription
- world

Administration Schemas

Information

No object selected

Query 1

```

48 • insert into rides_today( rd_id, rdr_id, pid, distance, bill)
49     values( 1, 1, 7, 14.3, 480),
50     ( 2, 2, 10, 1.30, 40),
51     ( 3, 4, 2, 8.9, 110),
52     ( 4, 5, 4, 15.5, 260),
53     ( 5, 7, 3, 5.1, 250),
54     ( 6, 1, 7, 14.3, 510),
55     ( 7, 1, 9.5, 330),
56     ( 8, 7, 6, 5.5, 280),
57     ( 9, 8, 10, 8.2, 140),
58     ( 10, 4, 8, 5.7, 90),
59     ( 11, 2, 2, 3.4, 90),
60     ( 12, 8, 6, 12.5, 165),
61     ( 13, 4, 8, 15.6, 250),
62     ( 14, 3, 6, 8.5, 290),
63     ( 15, 4, 2, 5.1, 70);
  
```

Result Grid

rd_id	rdr_id	pid	distance	bill
1	1	7	14.30	480
2	2	10	1.30	40
3	4	2	8.90	110
4	5	4	15.50	260
5	7	3	5.10	250

rides_today 6 x

Output

Action Output

Time	Action	Message	Duration / Fetch
17 22:39:26	select * from riders LIMIT 0, 500	8 row(s) returned	0.000 sec / 0.000 sec
18 22:40:16	select * from passengers LIMIT 0, 500	10 row(s) returned	0.000 sec / 0.000 sec
19 22:41:32	select * from rides_today LIMIT 0, 500	15 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

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ANS:2

Queries:

```
describe passengers;
```

```
describe riders;
```

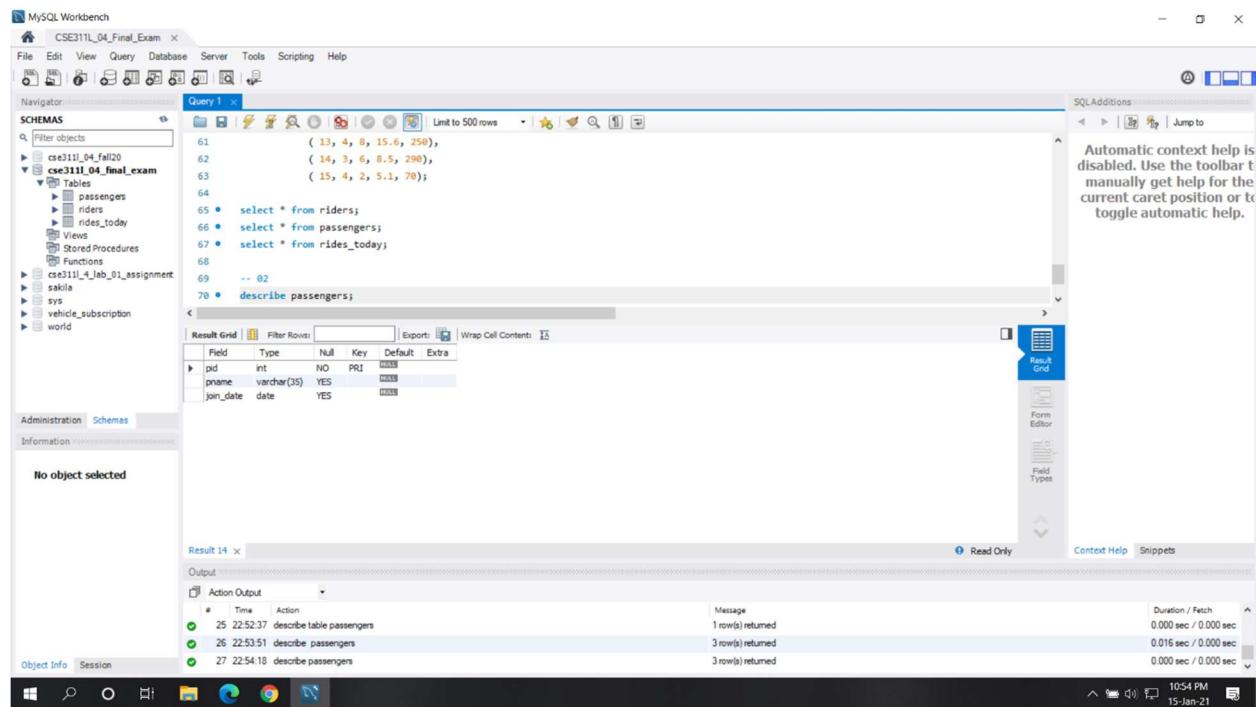
```
describe rides_today;
```

```
select * from riders;
```

```
select * from passengers;
```

```
select * from rides_today;
```

Screenshots:



The screenshot shows the MySQL Workbench interface. The title bar says "MySQL Workbench" and "CSE311L_04_Final_Exam". The main area has a toolbar at the top with various icons. Below the toolbar is the "Navigator" pane, which lists the schema "cse311L_04_final_exam" and its tables: passengers, riders, and rides_today. The "Tables" section also includes views, stored procedures, and functions. The "Result Grid" pane below shows the structure of the "passengers" table with columns pid, fname, lname, gender, and join_date. The "Output" pane at the bottom displays the execution history of the queries entered in the SQL editor.

```
61      ( 13, 4, 8, 15.6, 250),
62      ( 14, 3, 6, 8.5, 290),
63      ( 15, 4, 2, 5.1, 70);
64
65 • select * from riders;
66 • select * from passengers;
67 • select * from rides_today;
68
69 -- 02
70 • describe passengers;
```

Field	Type	Null	Key	Default	Extra
pid	int	NO	PRI	0	
fname	varchar(35)	YES		0	
lname	date	YES		0	

```
Output
Action Output
# Time Action
25 22:52:37 describe table passengers
26 22:53:51 describe passengers
27 22:54:18 describe passengers

Message
1 row(s) returned
3 row(s) returned
3 row(s) returned

Duration / Fetch
0.000 sec / 0.000 sec
0.016 sec / 0.000 sec
0.000 sec / 0.000 sec
```

MySQL Workbench

CSE311L_04_Final_Exam

File Edit View Query Database Server Tools Scripting Help

Navigators

SCHEMAS

- cse311l_04_fall20
- cse311l_04_final_exam
 - Tables
 - passengers
 - riders
 - rides_today
 - Views
 - Stored Procedures
 - Functions
- cse311l_4_lab_01_assignment
- sakila
- sys
- vehicle_subscription
- world

No object selected

Query 1

```

62      ( 14, 3, 6, 8.5, 290),
63      ( 15, 4, 2, 5.1, 70);
64
65 •   select * from riders;
66 •   select * from passengers;
67 •   select * from rides_today;
68
69 -- 02
70 •   describe passengers;
71 •   describe riders;
  
```

Result Grid

Field	Type	Null	Key	Default	Extra
rdr_id	int	NO	PRI	NULL	
rname	varchar(35)	YES		NULL	
vehicle	varchar(40)	YES		NULL	
vtype	varchar(2)	YES		NULL	
join_date	date	YES		NULL	
total_rides	int	YES		NULL	
income	decimal(10,0)	YES		NULL	
distance	decimal(10,0)	YES		NULL	

SQLAdditions

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

Result 15

Action Output

#	Time	Action	Message	Duration / Fetch
26	22:53:51	describe passengers	3 row(s) returned	0.016 sec / 0.000 sec
27	22:54:18	describe passengers	3 row(s) returned	0.000 sec / 0.000 sec
28	22:54:27	describe riders	8 row(s) returned	0.015 sec / 0.000 sec

Object Info Session

10:54 PM 15-Jan-21

MySQL Workbench

CSE311L_04_Final_Exam

File Edit View Query Database Server Tools Scripting Help

Navigators

SCHEMAS

- cse311l_04_fall20
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 - Tables
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- cse311l_4_lab_01_assignment
- sakila
- sys
- vehicle_subscription
- world

No object selected

Query 1

```

63      ( 15, 4, 2, 5.1, 70);
64
65 •   select * from riders;
66 •   select * from passengers;
67 •   select * from rides_today;
68
69 -- 02
70 •   describe passengers;
71 •   describe riders;
72 •   describe rides_today;
  
```

Result Grid

Field	Type	Null	Key	Default	Extra
rd_id	int	NO	PRI	NULL	
rdr_id	int	YES		NULL	
pid	int	YES		NULL	
distance	decimal(6,2)	YES		NULL	
bill	decimal(10,0)	YES		NULL	

SQLAdditions

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

Result 16

Action Output

#	Time	Action	Message	Duration / Fetch
27	22:54:18	describe passengers	3 row(s) returned	0.000 sec / 0.000 sec
28	22:54:27	describe riders	8 row(s) returned	0.015 sec / 0.000 sec
29	22:54:40	describe rides_today	5 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

10:54 PM 15-Jan-21

MySQL Workbench

CSE311L_04_Final_Exam

File Edit View Query Database Server Tools Scripting Help

Navigator: Schemas: cse311l_04_final_exam Tables: riders Columns: rdr_id, name, vehicle, vtype, join_date, total_rides, income, distance, rlevel

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

```

65 • select * from riders;
66 • select * from passengers;
67 • select * from rides_today;
68
69 --- 02
70 • describe passengers;
71 • describe riders;
72 • describe rides_today;
73
74 • select * from riders;
75 • select * from passengers;
    
```

Result Grid: rdr_id, name, vehicle, vtype, join_date, total_rides, income, distance, rlevel

rdr_id	name	vehicle	vtype	join_date	total_rides	income	distance	rlevel
1	Abeer Fahm	Honda Civic	C	2020-03-20	75	87000	900	3
2	Jasfar Ahmed	Yamaha R15	B	2020-01-12	55	60000	900	2
3	Jannatul Lamia	Toyota Pruis	C	2020-04-04	30	33000	350	2
4	Tanvir Ahmed	Yamaha Pulse	B	2019-12-01	105	100000	1370	3
5	Shahirul Alam	Bajaj Discover	B	2020-01-25	5	10000	80	1
6	Ashfaq Nabid	UM Sport	B	2020-09-28	1	350	22	1
7	SM Sayem	Toyota Corolla	C	2020-08-08	15	52000	190	1
8	Golam Haider	Vegga	B	2020-03-16	45	52000	650	2

riders 50 x

Action Output:

#	Time	Action	Message	Duration / Fetch
99	04:01:32	select * from riders LIMIT 0, 500	9 row(s) returned	0.000 sec / 0.000 sec
100	04:10:54	delete from riders where rdr_id=9	1 row(s) affected	0.015 sec
101	04:11:00	select * from riders LIMIT 0, 500	8 row(s) returned	0.000 sec / 0.000 sec

Object Info Session 411 AM 16-Jan-21

MySQL Workbench

CSE311L_04_Final_Exam

File Edit View Query Database Server Tools Scripting Help

Navigator: Schemas: cse311l_04_final_exam Tables: passengers Columns: pid, pname, join_date

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

```

66 • select * from passengers;
67 • select * from rides_today;
68
69 --- 02
70 • describe passengers;
71 • describe riders;
72 • describe rides_today;
73
74 • select * from riders;
75 • select * from passengers;
76 • select * from rides_today;
    
```

Result Grid: pid, pname, join_date

pid	pname	join_date
1	Shahriar Chowdhury	2020-01-03
2	Janal E Molah	2019-10-21
3	Alvi Hossain	2020-11-12
4	Tonmoy Jaman	2020-01-27
5	Tousif Munshi	2019-12-02
6	Yakub Noby	2019-12-24
7	Mithila Rahman	2020-02-27
8	Jobbar Sheikh	2020-03-14
9	Chunnu Wahidul	2020-06-07
10	Rakib Hasan	2020-08-29

passengers 51 x

Action Output:

#	Time	Action	Message	Duration / Fetch
100	04:10:54	delete from riders where rdr_id=9	1 row(s) affected	0.015 sec
101	04:11:00	select * from passengers LIMIT 0, 500	8 row(s) returned	0.000 sec / 0.000 sec
102	04:11:10	select * from passengers LIMIT 0, 500	10 row(s) returned	0.015 sec / 0.000 sec

Object Info Session 411 AM 16-Jan-21

The screenshot shows the MySQL Workbench interface. In the top navigation bar, the database 'CSE311L_04_Final_Exam' is selected. The left sidebar displays the schema structure, including tables like 'riders', 'passengers', and 'rides_today'. The main area shows a query editor with the following SQL code:

```

73
74 • select * from riders;
75 • select * from passengers;
76 • select * from rides_today;
77
    
```

Below the code is a results grid titled 'riders - Table' with the following data:

rd_id	rdr_id	pid	distance	bill
1	1	7	14.30	480
2	2	10	1.30	40
3	4	2	8.90	110
4	5	4	15.50	260
5	7	3	5.10	250
6	1	7	14.30	510
7	1	1	9.50	330
8	7	6	5.50	280
9	8	10	8.20	140
10	4	8	5.70	90
11	2	2	3.40	90
12	8	6	12.50	165
13	4	8	15.60	250
14	3	6	8.50	290
15	4	2	5.10	70

The bottom section shows the execution history for the 'rides_today' query:

Action	Time	Action	Message	Duration / Fetch
101	04:11:00	select * from riders LIMIT 0, 500	8 row(s) returned	0.000 sec / 0.000 sec
102	04:11:10	select * from passengers LIMIT 0, 500	10 row(s) returned	0.015 sec / 0.000 sec
103	04:11:16	select * from rides_today LIMIT 0, 500	15 row(s) returned	0.000 sec / 0.000 sec

ANS:03

Queries:

```

select rdr_id, rname
from riders
where rdr_id not in( select distinct rdr_id from rides_today);
    
```

Description and Explanation:

This question asked to show those riders information who did not ride today.

It is a solvable problem and I have solved this problem by giving a condition where those rider's id does not present in the rides_today table.

Screenshot:

The screenshot shows the MySQL Workbench interface. In the Navigator pane, the schema 'cse311l_04_final_exam' is selected, and the 'riders' table is expanded to show columns like rdr_id, name, vehicle, vtype, join_date, total_rides, and distance. The 'Query 1' tab contains the following SQL code:

```
76 • select * from rides_today;
77
78 -- 03
79
80 • select rdr_id, rname
81   from riders
82  where rdr_id not in( select distinct rdr_id from rides_today);
83
84
85
```

The 'Result Grid' shows a single row with rdr_id 6 and rname 'Ahsfac Nabid'. The 'Output' pane at the bottom shows the execution log with three entries:

Action	Time	Message	Duration / Fetch
35	23.08.09	select rdr_id, name from riders where rdr_id<>(select distinct rdr_id from rides_today) LIMIT 0, 500	0.000 sec
36	23.08.19	select rdr_id, name from riders where rdr_id<>(select distinct rdr_id from rides_today) LIMIT 0, 500	0.000 sec
37	23.09.07	select rdr_id, name from riders where rdr_id not in(select distinct rdr_id from rides_today) LIMIT 0, 500	1row(s) returned 0.000 sec / 0.000 sec

ANS:4

Query:

```
select r.rdr_id "Rider's ID", r.rname "Rider's Name", p.pid "Passenger's Id", p.pname
"Passenger's Name"

from riders r

join rides_today rd

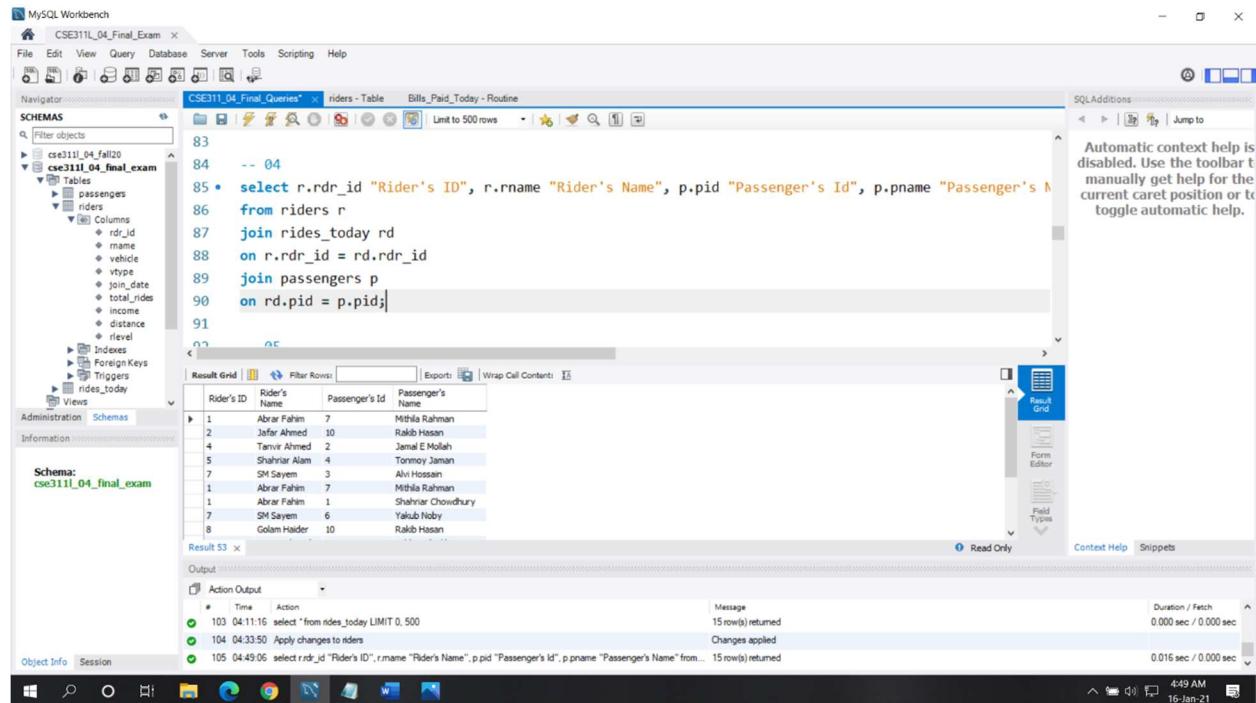
on r.rdr_id = rd.rdr_id

join passengers p

on rd.pid = p.pid;
```

Description and Explanation:

Here we asked to show the details of today's rides with the rider's and passenger's related information about which rider went for the ride today. It was also a solvable problem and to solve the problem I joined all the three tables on a condition where rider's id and passenger's id is present on the rides_today table.



The screenshot shows the MySQL Workbench interface with the following details:

- Schemas:** cse311l_04_final_exam
- Tables:** riders, passengers, rides_today
- Query:** A SQL SELECT statement joining three tables: riders, passengers, and rides_today. The query retrieves Rider's ID, Rider's Name, Passenger's ID, and Passenger's Name.
- Result Grid:** Displays 15 rows of data, showing the mapping between riders and passengers for various rides.
- Action Output:** Shows the history of actions taken, including selecting from rides_today, applying changes to riders, and running the final select query.

Rider's ID	Rider's Name	Passenger's ID	Passenger's Name
1	Abrar Fahim	7	Mithila Rahman
2	Jafir Ahmed	10	Rakib Hasan
4	Tanvir Ahmed	2	Jamal E Mollah
5	Shahriar Alam	4	Tonmoy Jaman
7	SM Sayem	3	Alvi Hossain
1	Abrar Fahim	7	Mithila Rahman
1	Abrar Fahim	1	Shahriar Chowdhury
7	SM Sayem	6	Yakub Noby
8	Golam Halder	10	Rakib Hasan

ANS:5

Query:

```
select SUM(bill) "Toay's Revenue From Bikes"  
from rides_today rd  
join riders r  
on rd.rdr_id = r.rdr_id  
where r.vtype = "B";
```

Description and Explanation:

Here we have asked to show the total revenue earned today from bikes. So, I have this problem by joining riders table and rides_today table on the condition of riders' id of riders table is present on rides_table where they have bikes as vehicle type then just summed their earnings.

Screenshot:

The screenshot shows the MySQL Workbench interface with a query editor and results window.

Query Editor (Query 1):

```
91
92 -- 05
93 • select SUM(bill) "Toay's Revenue From Bikes"
94 from rides_today rd
95 join riders r
96 on rd.rdr_id = r.rdr_id
97 where r.vtype = "B";
98
```

Result Grid:

Bikes
1215

Output Window (Result 32):

Action	Time	Action	Message	Duration / Fetch
46	23:39:20	select SUM(bill) "Toay's Revenue" from rides_today rd join riders r on rd.rdr_id = r.rdr_id where r.vehicle = "B" L...	1 row(s) returned	0.000 sec / 0.000 sec
47	23:40:20	select SUM(bill) "Toay's Revenue" from rides_today rd join riders r on rd.rdr_id = r.rdr_id where r.vehicle = "B" L...	1 row(s) returned	0.000 sec / 0.000 sec
48	23:40:53	select SUM(bill) "Toay's Revenue From Bikes" from rides_today rd join riders r on rd.rdr_id = r.rdr_id where r.vt...	1 row(s) returned	0.000 sec / 0.000 sec

ANS:06

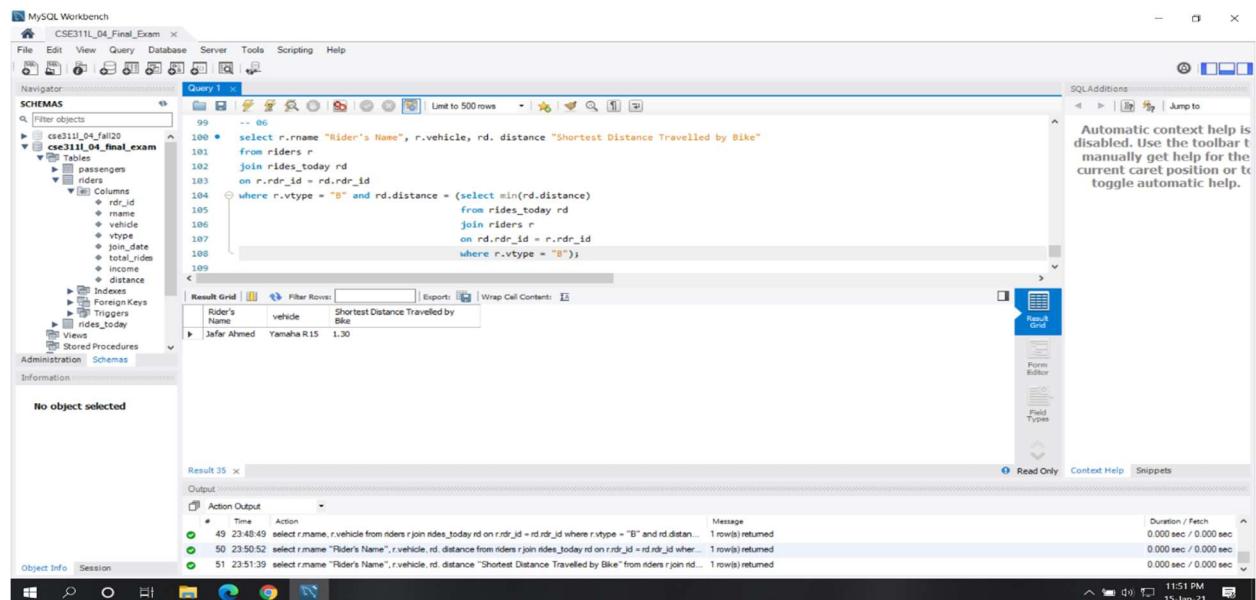
Query:

```
select r.rname "Rider's Name", r.vehicle, rd.distance "Shortest Distance Travelled by Bike"  
from riders r  
join rides_today rd  
on r.rdr_id = rd.rdr_id  
where r.vtype = "B" and rd.distance = (select min(rd.distance)  
from rides_today rd  
join riders r  
on rd.rdr_id = r.rdr_id  
where r.vtype = "B");
```

Description and Explanation:

Here we have asked to find all the bikes with its rider's name who drove the shortest road. I have solved this problem by joining riders table and rides_today table on the condition of riders' id of riders table is present on rides_table where vehicle type is bike and its ride the shortest distance which is measured by a sub query.

Screenshot:



Ans:07

Query:

```
select r.rname "Car Rider's Name", r.vehicle, rd.distance " Distance Travelled by Car"  
from riders r  
join rides_today rd  
on r.rdr_id = rd.rdr_id  
where r.vtype = "C" and rd.distance < 10;
```

Description and Explanation:

Here we have asked to find all the car riders who drove less than 10km. I have solved this problem by joining riders table and rides_today table on the condition of riders' id of riders table is present on rides_table where vehicle type is car and its ride less than 10km.

Screenshot:

The screenshot shows the MySQL Workbench interface with the following details:

- Navigator:** Shows the database schema with tables: passengers, riders, and rides_today.
- Query Editor:** Displays the SQL query:

```
109  
110  
111 -- 07  
112 * select r.rname "Car Rider's Name", r.vehicle, rd.distance " Distance Travelled by Car"  
113 from riders r  
114 join rides_today rd  
115 on r.rdr_id = rd.rdr_id  
116 where r.vtype = "C" and rd.distance < 10;  
117
```
- Result Grid:** Shows the results of the query:

Car Rider's Name	vehicle	Distance Travelled by
SM Sayem	Toyota Corolla	5.10
Abrar Fahim	Honda Civic	9.50
SM Sayem	Toyota Corolla	5.50
Jannatul Lania	Toyota Prius	8.50
- Action Output:** Shows the log of actions taken:

Action	Time	Message	Duration / Fetch
select name "Car Rider's Name", vehicle from riders where vtype="C" LIMIT 0, 500	58 00:04:07	3 row(s) returned	0.000 sec / 0.000 sec
select name "Car Rider's Name", vehicle from riders where vtype="C" and distance >1 LIMIT 0, 500	59 00:04:26	3 row(s) returned	0.000 sec / 0.000 sec
select r.rname "Car Rider's Name", r.vehicle, rd.distance " Distance Travelled by Car" from riders r join rides_to...	60 00:09:58	4 row(s) returned	0.000 sec / 0.000 sec

ANS:08

Query:

```
select r.rname "Rider's Name", r.vehicle, sum(rd.bill) "Earned Today"  
from riders r  
join rides_today rd  
on r.rdr_id = rd.rdr_id  
group by rd.rdr_id;
```

Description and Explanation:

Here we have asked to find how much each rider earned today. I have solved this problem by joining riders table and rides_today table on the condition of riders' id of riders table is present on rides_table then just group them by the rider's id of rides_table .

Screenshot:

The screenshot shows the MySQL Workbench interface with the following details:

- Navigator:** Shows the database schema with tables like passengers, riders, and rides_today.
- Query Editor:** Displays the SQL query:

```
118 -- 08  
119 * select r.rname "Rider's Name", r.vehicle, sum(rd.bill) "Earned Today"  
120   from riders r  
121   join rides_today rd  
122   on r.rdr_id = rd.rdr_id  
123   group by rd.rdr_id;  
124  
125 <
```
- Result Grid:** Shows the results of the query:

Rider's Name	Vehicle	Earned Today
Abar Fahim	Honda Civic	1320
Jafar Ahmed	Yamaha R15	130
Tanvir Ahmed	Yamaha Pulsar	520
Shahriar Alam	Bajaj Discover	260
SM Sayem	Toyota Corolla	530
Golam Haider	Vespa	305
Jannatul Lema	Toyota Prius	290
- Output:** Shows the execution log:

#	Time	Action	Message	Duration / Fetch
60	00:09:58	select r.rname "Car Rider's Name", r.vehicle, rd.distance "Distance Travelled by Car" from riders r join rides_to... 4 row(s) returned		0.000 sec / 0.000 sec
61	00:16:07	select r.rname "Rider's Name", r.vehicle, sum(rd.bill) from riders r join rides_today rd on r.rdr_id = rd.rdr_id group ... 7 row(s) returned		0.000 sec / 0.000 sec
62	00:17:31	select r.rname "Rider's Name", r.vehicle, sum(rd.bill) "Earned Today" from riders r join rides_today rd on r.rdr_id ... 7 row(s) returned		0.000 sec / 0.000 sec

ANS:09

Query:

```
alter table riders
```

```
add (rlevel int);
```

Screenshot:

The screenshot shows the MySQL Workbench interface. The title bar says "MySQL Workbench" and the database is "CSE311L_04_Final_Exam". The left sidebar shows the schema structure under "SCHEMAS". In the "riders" table, there is a new column "rlevel" added. The main window contains the following SQL code:

```
L15  on r.rdr_id = rd.rdr_id
L16  where r.vtype = "C" and rd.distance < 10;
L17
L18  -- 08
L19 • select r.rname "Rider's Name", r.vehicle, sum(rd.bill) "Earned Today"
L20  from riders r
L21  join rides_today rd
L22  on r.rdr_id = rd.rdr_id
L23  group by rd.rdr_id;
L24
L25
L26  -- 09
L27 • alter table riders
L28  add (rlevel int);
L29
```

The "Output" tab at the bottom shows the execution results:

#	Time	Action	Message	Duration / Fetch
61	00:16:07	select r.rname "Rider's Name", r.vehicle, sum(rd.bill) from riders r join rides_today rd on r.rdr_id = rd.rdr_id group ...	7 row(s) returned	0.000 sec / 0.000 sec
62	00:17:31	select r.rname "Rider's Name", r.vehicle, sum(rd.bill) "Earned Today" from riders r join rides_today rd on r.rdr_id ...	7 row(s) returned	0.000 sec / 0.000 sec
63	00:32:22	alter table riders add (rlevel int)	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0	0.125 sec

ANS:10

Query:

```
update riders
```

```
set rlevel = 1
```

```
where total_rides <30;
```

```
update riders
```

```
set rlevel = 2
```

```
where total_rides <70 and total_rides >30 ;
```

```
update riders
```

```
set rlevel = 3
```

```
where total_rides >70 ;
```

```
select * from riders;
```

Description and Explanation:

Here we have asked to update the rider's table rlevel column by some condition. I have solved this problem just update that rlevel column using the given condition.

Screenshot:

The screenshot shows the MySQL Workbench interface. The top navigation bar includes File, Edit, View, Query, Database, Server, Tools, Scripting, and Help. The left sidebar displays the Navigator, Schemas, and Information panels. The main area shows a query editor titled "CSE311_04_Final_Exam" with a routine named "Bills_Paid_Today - Routine". The code in the editor is as follows:

```

130 -- 10
131 • update riders
132 set rlevel = 1
133 where total_rides <30;
134
135 • update riders
136 set rlevel = 2
137 where total_rides <70 and total_rides >30 ;
138
139 • update riders
140 set rlevel = 3
141 where total_rides >70 ;
142
143 • select * from riders;
144

```

The Result Grid shows the following data:

Rider's ID	Rider's Name	Passenger's Id	Passenger's Name
1	Abrar Fahim	7	Mithila Rahman
2	Jafer Ahmed	10	Rakib Hasan
4	Tanvir Ahmed	2	Jamal E Molah
5	Shahriar Alam	4	Tonmoy Jaman
7	SM Sayem	3	Alvi Hossan
1	Abrar Fahim	7	Mithila Rahman

The Action Output panel shows the following log entries:

- 103 04:11:16 select * from riders_today LIMIT 0, 500 Message 15 row(s) returned Duration / Fetch 0.000 sec / 0.000 sec
- 104 04:33:50 Apply changes to riders Changes applied 0.016 sec / 0.000 sec
- 105 04:49:06 select rdr_id "Rider's ID", rname "Rider's Name", p.pid "Passenger's Id", p.pname "Passenger's Name" from... 15 row(s) returned 0.016 sec / 0.000 sec

This screenshot is nearly identical to the one above, showing the same MySQL Workbench interface and the same routine code. The Result Grid shows the following data:

rdr_id	name	vehicle	vtype	join_date	total_rides	income	distance	rlevel
1	Abrar Fahim	Honda Civic	C	2020-03-20	75	87000	1200	3
2	Jafer Ahmed	Yamaha R15	B	2020-01-12	55	60000	900	2
3	Jamalut Lami	Toyota Prius	C	2020-04-04	30	33000	350	2
4	Tanvir Ahmed	Yamaha PulseR	B	2019-12-01	105	100000	1370	3
5	Shahriar Alam	Bajaj Discover	B	2020-01-25	5	1000	80	1
6	Ashfaq Nabid	UM Spur	B	2020-09-28	1	350	22	1
7	SM Sayem	Toyota Corolla	C	2020-08-08	15	5200	190	1
8	Golem Haider	Vespa	B	2020-03-16	45	52000	650	2

The Action Output panel shows the following log entries:

- 104 04:33:50 Apply changes to riders Changes applied 0.016 sec / 0.000 sec
- 105 04:49:06 select rdr_id "Rider's ID", rname "Rider's Name", p.pid "Passenger's Id", p.pname "Passenger's Name" from... 15 row(s) returned 0.016 sec / 0.000 sec
- 106 05:58:25 select * from riders LIMIT 0, 500 8 row(s) returned 0.000 sec / 0.000 sec

ANS:11

Query:

```
CREATE DEFINER='root'@'localhost' TRIGGER `riders_BEFORE_INSERT` BEFORE
INSERT ON `riders` FOR EACH ROW BEGIN
    if new.total_rides <30 then
        set new.rlevel = 1;
    elseif (new.total_rides<70) and (new.total_rides>30)then
        set new.rlevel = 2;
    elseif (new.total_rides >70) then
        set new.rlevel = 3;
    end if;
END
```

Description and Explanation:

Here we have asked to create a trigger that will automatically insert value in rlevel column when anything will be insert in riders table. I have solved this problem by using the condition mentioned in number 10 question in if else condition then just set the new value in rlevel column for every new entries in riders table and here our trigger will be triggered before inserting any row in rider's table.

Screenshots:

The screenshot shows the MySQL Workbench interface with the schema 'CSE311_04_final_exam'. In the 'Triggers' tab for the 'riders' table, a new trigger named 'Bills_Paid_Today - Routine' is being created. The trigger is defined as follows:

```

1 * CREATE DEFINER='root'@'localhost' TRIGGER `riders_BEFORE_INSERT` BEFORE INSERT ON `riders` FOR EACH ROW BEG
2 *   IF new.total_rides < 30 THEN
3 *     set new.level = 1;
4 *   elseif (new.total_rides<70) and (new.total_rides>30)then
5 *     set new.level = 2;
6 *   elseif (new.total_rides >70) then
7 *     set new.level = 3;
8 *   end if;
9 * END

```

The 'Output' pane shows the execution of several SQL statements, including selecting from the 'passengers' and 'rides_today' tables, and applying changes to the 'riders' table.

The screenshot shows the MySQL Workbench interface with the schema 'CSE311_04_final_exam'. In the 'Triggers' tab for the 'riders' table, a series of statements are being run:

```

144 -- 11
145
146
147 *   insert into riders (rdr_id, rname, vehicle, vtype, join_date, total_rides, income, distance)
148       values( 9, "MD. ABU AMMAR", "BMW X1", "C", str_to_date("28-03-2020","%d-%c-%Y"), 20, 87000, 1200);
149
150
151 *   select * from riders;
152
153 -- 12
154 *   call Bills_Paid_Today();

```

The 'Result Grid' pane displays the results of the 'select * from riders' statement, showing 9 rows of data. The 'Output' pane shows the execution of the insert statement, the select statement, and the call to the 'Bills_Paid_Today()' stored procedure.

ANS:12

Query:

```
CREATE DEFINER='root'@'localhost' PROCEDURE `Bills_Paid_Today`()
BEGIN
select p.pname "Passanger Name", sum(rd.bill) "PAid Today"
from rides_today rd
join passengers p
on p.pid = rd.pid
group by rd.pid;
END

call Bills_Paid_Today();
```

Description and Explanation:

Here we have asked to create a store procedure that will return the total amount of bill each passenger paid today then execute the procedure to show this. I have solved the problem by creating a store procedure where I store a procedure that will return the total amount of bill each passenger paid today where I have joined the passengers table and rides_today table on condition of passengers of passengers table present on rides_today table then just group them by their id.

Screenshots:

The screenshot shows the MySQL Workbench interface with the database 'CSE311_04_final_exam' selected. In the Navigator pane, under the 'rider' table, a new routine named 'Bills_Paid_Today' is being created. The DDL code is as follows:

```

1 • CREATE DEFINER='root'@'localhost' PROCEDURE `Bills_Paid_Today`()
2 • BEGIN
3     select p.pname "Passenger Name", sum(rd.bill) "PAID Today"
4     from rides_today rd
5     join passengers p
6     on p.pid = rd.pid
7     group by rd.pid;
8 END

```

The Output pane shows the results of running the procedure:

Action	Time	Message	Duration / Fetch
39 02:03:03 call Bills_Paid_Today()		Error Code: 1146. Table 'cse311_04_final_exam.passenger' doesn't exist	0.000 sec
40 02:03:19 Apply changes to Bills_Paid_Today		Changes applied	
41 02:03:25 call Bills_Paid_Today()		8 row(s) returned	0.000 sec / 0.000 sec

The screenshot shows the MySQL Workbench interface with the database 'CSE311_04_final_exam' selected. In the Navigator pane, under the 'rider' table, a stored procedure is being run. The code in the editor is:

```

148 values( 9, "MD. ABU AMMAR", "BMW X1", "C", str_to_date("20-03-2020", "%d-%c-%Y"), 20, 870
149
150 • delete from riders where rdr_id=9;
151 • select * from riders;
152
153 -- 12
154 • call Bills_Paid_Today();
155

```

The Result Grid pane displays the following data:

Passenger Name	Paid Today
Mithila Rahman	990
Rakib Hasan	180
Jamal E Molla	270
Tonmoy Janan	260
Alvi Hossain	250
Shahriar Chowdhury	330
Yakub Noby	735
Jobbar Sheikh	340

The Output pane shows the results of running the procedure:

Action	Time	Message	Duration / Fetch
39 02:03:03 call Bills_Paid_Today()		Error Code: 1146. Table 'cse311_04_final_exam.passenger' doesn't exist	0.000 sec
40 02:03:19 Apply changes to Bills_Paid_Today		Changes applied	
41 02:03:25 call Bills_Paid_Today()		8 row(s) returned	0.000 sec / 0.000 sec

ANS:13

Query:

```
select r.rname "Riders Name", p.pname "Passenger Name", rd.distance, rd.bill  
from rides_today rd  
join riders r  
on rd.rdr_id = r.rdr_id  
join passengers p  
on rd.pid = p.pid  
where r.vtype = "B"  
group by rd.rdr_id  
having count(rd.rdr_id)<2;
```

Description and Explanation:

Here we have asked to show the name of bike riders with their passenger name and other info who complete a single ride today. I have solved this problem by joining all the table with the condition vehicle type is bike and the group them by the rider id while they appear only one time in rides_today table.

Screenshot:

MySQL Workbench

CSE311L_04_Final_Exam

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

CSE311L_04_Final_Exam

Tables

riders

Columns

rdr_id, rname, vehicle, vtype, join_date, total_rides, income, distance, rlevel

passenger

riders

riders

Foreign Keys

Triggers

Views

riders_today

Administration Schemas Information

Schema: CSE311L_04_Final_Exam

CSE311L_04_Final_Queries* - riders - Table Bills_Paid_Today - Routine

156 -- 13
157 * select r.rname "Riders Name", p.pname "Passenger Name", rd.distance, rd.bill
158 from rides_today rd
159 join riders r
160 on rd.rdr_id = r.rdr_id
161 join passengers p
162 on rd.pid = p.pid
163 where r.vtype = "B"
164 group by rd.rdr_id
165 having count(rd.rdr_id) < 2;
166

Result Grid | Filter Rows: | Export: | Wrap Cell Content: |

Riders Name	Passenger Name	distance	bill
Shahriar Alam	Tonmoy Jaman	15.50	260

SQLAdditions

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

Result 10 x

Action Output

#	Time	Action	Message	Duration / Fetch
44	02:22:33	select r.rname "Riders Name", p.pname "Passenger Name", rd.distance, rd.bill from rides_today rd join riders r ...	2 row(s) returned	0.000 sec / 0.000 sec
45	02:23:28	select r.rname "Riders Name", p.pname "Passenger Name", rd.distance, rd.bill from rides_today rd join riders r ...	Error Code: 1054. Unknown column 'r.vtype' in having clause	0.000 sec
46	02:24:03	select r.rname "Riders Name", p.pname "Passenger Name", rd.distance, rd.bill from rides_today rd join riders r ...	1 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

Read Only Context Help Snippets

2:24 AM 16-Jan-21

The screenshot shows the MySQL Workbench interface. In the top-left, the 'Schemas' tree view shows the 'CSE311L_04_Final_Exam' database with its tables: 'riders', 'passenger', and 'riders'. A specific query named 'CSE311L_04_Final_Queries*' is running against the 'riders' table. The SQL code for the query is displayed in the main pane, including a comment at line 156 and a multi-line select statement starting at line 157. Below the SQL is a 'Result Grid' showing one row of data: Shahriar Alam and Tonmoy Jaman with a distance of 15.50 and a bill of 260. To the right of the grid is a vertical toolbar with icons for 'Result Grid', 'Form Editor', and 'Field Types'. A tooltip on the toolbar states: 'Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.' At the bottom, the 'Output' tab is open, showing the 'Action Output' section with three log entries. The first entry is successful (green), while the second and third entries show errors (red). The log includes columns for '#', 'Time', 'Action', 'Message', and 'Duration / Fetch'. The status bar at the bottom right shows the time as 2:24 AM and the date as 16-Jan-21.

ANS:14

Query:

```
select r.rname "Car Rider's Name", r.vehicle, sum(rd.bill) "Today's Total Income"
from rides_today rd
join riders r
on rd.rdr_id = r.rdr_id
where r.vtype = "C"
group by rd.rdr_id;
```

Description and Explanation:

Here we have asked to show the name of all car riders with their total income of today. To solve this problem, I just joined the rides_today table and riders table on the condition of riders' id of riders table is present on the rides_table where vehicle type is car then just group them by them with their id.

Screenshot:

MySQL Workbench

CSE311L_04_Final_Exam

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

CSE311L_04_Final_Exam

Tables

riders

Columns

passenger

riders

rdr_id

name

vehicle

vtype

join_date

total_rides

pname

distance

level

Indexes

Foreign Keys

Triggers

rides_today

Views

Administration Schemas

Information

Schema: CSE311L_04_final_exam

CSE311L_04_Final_Questions

riders - Table Bills_Paid_Today - Routine

167 -- 14
168 * select r.rname "Car Rider's Name", r.vehicle, sum(rd.bill) "Today's Total Income"
169 from rides_today rd
170 join riders r
171 on rd.rdr_id = r.rdr_id
172 where r.vtype = "C"
173 group by rd.rdr_id;
174
175

Result Grid | Filter Rows: Export: Wrap Cell Contents: □

Car Rider's Name	vehicle	Today's Total Income
Abrar Fahim	Honda Civic	1320
SM Sayem	Toyota Corolla	530
Jannatul Lamia	Toyota Prius	290

SQLAdditions

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

Result 12 x

Output

Action Output

Action	Time	Message	Duration / Fetch
46 02:24:03	select r.name "Riders Name", p.pname "Passenger Name", rd.distance, rd.bill from rides_today rd join riders r ...	1 row(s) returned	0.000 sec / 0.000 sec
47 02:33:58	select r.name "Car Rider's Name", r.vehicle, sum(rd.bill) from rides_today rd join riders r on rd.rdr_id = r.rdr_id ...	3 row(s) returned	0.000 sec / 0.000 sec
48 02:34:48	select r.name "Car Rider's Name", r.vehicle, sum(rd.bill) "Today's Total Income" from rides_today rd join riders r ...	3 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

235 AM 16-Jan-21

The screenshot shows the MySQL Workbench interface. In the top pane, a query is being run against the 'CSE311L_04_Final_Exam' database. The query selects the name, vehicle, and total bill for car riders from the 'rides_today' and 'riders' tables. The results are displayed in a grid, showing three rows: Abrar Fahim (Honda Civic, 1320), SM Sayem (Toyota Corolla, 530), and Jannatul Lamia (Toyota Prius, 290). Below the results, the 'Result 12' tab shows the execution history with three entries corresponding to the query steps. The bottom status bar indicates the time as 235 AM and the date as 16-Jan-21.

ANS:15

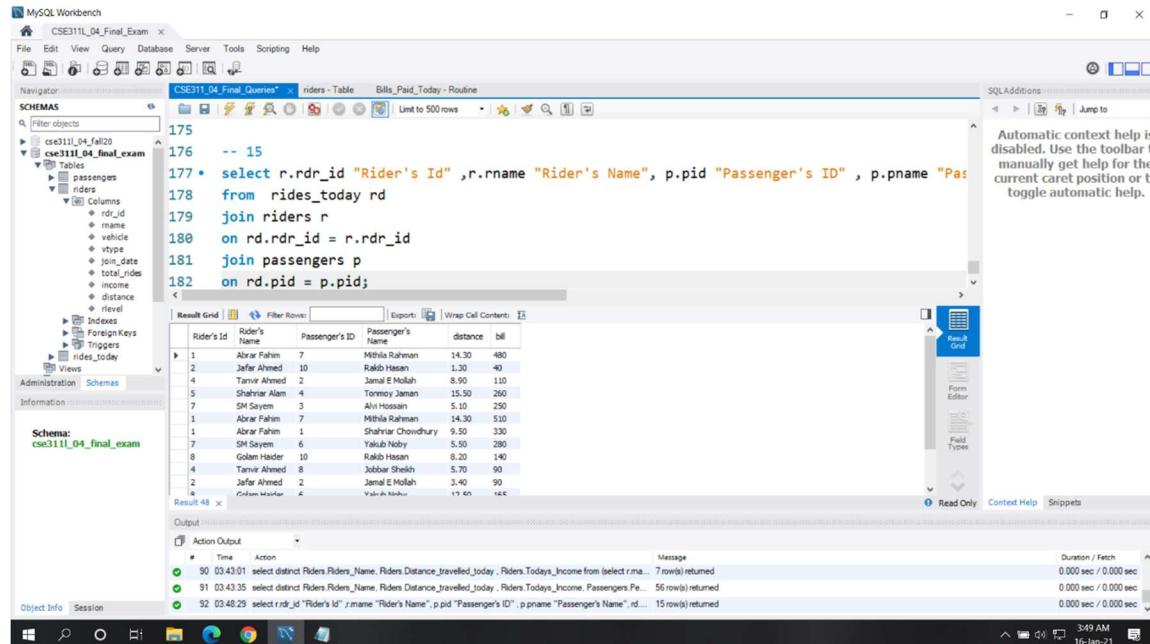
Query:

```
select r.rdr_id "Rider's Id" ,r.rname "Rider's Name", p.pid "Passenger's ID" , p.pname  
"Passenger's Name", rd.distance, rd.bill  
  
from rides_today rd  
  
join riders r  
  
on rd.rdr_id = r.rdr_id  
  
join passengers p  
  
on rd.pid = p.pid;
```

Description and Explanation:

Here we asked to show the details of today's rides with all the rider's and passenger's related information. It was also a solvable problem and to solve the problem I just joined all the three tables on a condition where rider's id and passenger's id is present on the rides_today table and just fetched the information of both passenger and riders from here.

Screenshots:



The screenshot shows the MySQL Workbench interface with the following details:

- File Bar:** File, Edit, View, Query, Database, Server, Tools, Scripting, Help.
- Navigator:** Shows the schema CSE311_04_final_Exam with tables: passengers, riders, and rides_today.
- SQL Editor:** Contains the SQL query for selecting data from the three tables based on the joins defined in the question.
- Result Grid:** Displays the query results in a tabular format with columns: Rider's Id, Rider's Name, Passenger's ID, Passenger's Name, distance, and bill.
- Output:** Shows the execution log with three entries corresponding to the query execution.
- Object Info:** Shows the session details.
- System Bar:** Shows the system tray with icons for Task View, Start, Taskbar, and a clock indicating 3:49 AM on 16-Jan-21.

Rider's Id	Rider's Name	Passenger's ID	Passenger's Name	distance	bill
1	Abra Fahim	7	Mitha Rahman	14.30	480
2	Jafar Ahmed	10	Rakib Hasan	1.30	40
4	Tanvir Ahmed	2	Janan E Molla	8.50	110
5	Shahriar Alom	4	Torina Jaman	15.50	360
7	SM Sayem	3	Alvi Hossain	5.10	250
1	Abra Fahim	7	Mitha Rahman	14.30	510
1	Abra Fahim	1	Shahnir Chowdhury	9.50	330
7	SM Sayem	6	Yakub Noby	5.50	280
8	Golam Haider	10	Rakib Hasan	8.20	140
4	Tanvir Ahmed	8	Jobbar Sheikh	5.70	90
2	Jafar Ahmed	2	Janan E Molla	3.40	90
2	Zidan Wazir	4	Yasin Akhter	17.45	144

MySQL Workbench

CSE311L_04_Final_Exam

File Edit View Query Database Server Tools Scripting Help

Navigator Schemas CSE311L_04_Final_Exam Tables CSE311L_04_Final_Exam.riders - Table Bills_Paid_Today - Routine

Filter objects Filter Rows Export Wrap Cell Contents

Result Grid | Filter Rows | Export | Wrap Cell Contents | Result Grid | Form Editor | Field Types | Read Only | 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.

```

175
176    -- 15
177 •   select r.rdr_id "Rider's Id", r.rname "Rider's Name", p.pid "Passenger's ID", p.pname "Pas
178   from rides_today rd
179   join riders r
180   on rd.rdr_id = r.rdr_id
181   join passengers p
182   on rd.pid = p.pid;

```

Result Grid

Rider's Id	Rider's Name	Passenger's ID	Passenger's Name	distance	bill
7	SM Sayem	3	Akh Hossain	5.10	250
1	Abrar Fahim	7	Mithila Rahman	14.30	510
1	Abrar Fahim	1	Shahnur Chowdhury	9.50	330
7	SM Sayem	6	Yakub Noby	5.50	280
8	Golam Haider	10	Rakib Hasan	8.20	140
4	Tanvir Ahmed	8	Jobbar Sheikh	5.70	90
2	Jafar Ahmed	2	Janal E Mollah	3.40	90
8	Golam Haider	6	Yakub Noby	12.50	165
4	Tanvir Ahmed	8	Jobbar Sheikh	15.60	250
3	Jannatul Lamia	6	Yakub Noby	8.50	290
4	Tanvir Ahmed	2	Janal E Mollah	5.10	70

Output

Action Output

Time	Action	Message	Duration / Fetch
90 03:43:01	select distinct Riders.Riders_Name, Riders.Distance_travelled_today , Riders.Todays_Income from (select r.ma...	7 row(s) returned	0.000 sec / 0.000 sec
91 03:43:35	select distinct Riders.Riders_Name, Riders.Distance_travelled_today , Riders.Todays_Income, Passengers.Pe...	56 row(s) returned	0.000 sec / 0.000 sec
92 03:48:29	select rdr_id "Rider's Id", rname "Rider's Name", pid "Passenger's ID", pname "Passenger's Name", rd...	15 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

3:49 AM 16-Jan-21