

NAME : LOPAMUDRA PATRO

SECTION : 3N

USN : 1WA24CS158

BATCH : BATCH-2(N2-ASK)

**DBMS LAB WEEK-1 Insurance DB**

Q. **PERSON** (driver\_id: String, name: String, address: String)

**CAR** (reg\_num: String, model: String, year: int)

**ACCIDENT** (report\_num: int, accident\_date: date, location: String)

**OWNS** (driver\_id: String, reg\_num: String)

**PARTICIPATED** (driver\_id: String, reg\_num: String, report\_num: int, damage\_amount: int)

- Create the above tables by properly specifying the primary keys and the foreign keys.
- Enter at least five tuples for each relation
- Display Accident date and location
- Update the damage amount to 25000 for the car with a specific reg\_num (example 'K A053408' ) for which the accident report number was 12.
- Add a new accident to the database.

To Do :

- Display Accident date and location.
- Display driver id who did accident with damage amount greater than or equal to Rs.25000

SQL:

The screenshot shows a MySQL database management tool interface. At the top, there's a tab labeled 'insuranceDB'. Below it, a toolbar contains various icons for file operations, search, and execution. The main query editor area shows the following SQL query:

```
1 • SHOW DATABASES;  
2
```

Below the query editor, there's a 'Result Grid' section. It displays a list of databases:

Database
information_schema
mydb
mysql
newdatabase
newdatabase158
performance_schema
sys

At the bottom, there's an 'Output' section with a dropdown menu set to 'Action Output'. It shows a log of actions:

#	Time	Action	Message
✓ 22	10:36:55	SHOW DATABASES	7 row(s) returned

Navigator insuranceDB x

**SCHEMAS**

Filter objects

- insurancedb
  - Tables
  - Views
  - Stored Procedures
  - Functions
- mydb
- newdatabase
- newdatabase158
- sys

```
1 • CREATE DATABASE insurancedb;  
2 • USE insurancedb;  
3
```

```
6 • CREATE TABLE PERSON (  
7     driver_id VARCHAR(10) PRIMARY KEY,  
8     name VARCHAR(20),  
9     address VARCHAR(30)  
10 );  
11 • SELECT * FROM PERSON;  
12  
13 • CREATE TABLE CAR /
```

**Result Grid** | Filter Rows: | Edit:

	driver_id	name	address
*	NULL	NULL	NULL

```
13 • CREATE TABLE CAR (  
14     reg_num VARCHAR(10) PRIMARY KEY,  
15     model VARCHAR(10),  
16     year INT  
17 );  
18 • SELECT * FROM CAR;  
19
```

Result Grid | Filter Rows: | Edit:

	reg_num	model	year
*	NULL	NULL	NULL

```
20 • CREATE TABLE ACCIDENT (  
21     report_num INT PRIMARY KEY,  
22     accident_date DATE,  
23     location VARCHAR(20)  
24 );  
25 • SELECT * FROM ACCIDENT;  
26
```

Result Grid | Filter Rows: | Edit:

	report_num	accident_date	location
*	NULL	NULL	NULL

```

26 • ○ CREATE TABLE OWNS (
27     driver_id VARCHAR(10),
28     reg_num VARCHAR(10),
29     PRIMARY KEY (driver_id, reg_num),
30     FOREIGN KEY (driver_id) REFERENCES PERSON(driver_id),
31     FOREIGN KEY (reg_num) REFERENCES CAR(reg_num)
32 );
33 • SELECT * FROM owns;
34

```

Result Grid | | Filter Rows:  | Edit: | Export/Import:

	driver_id	reg_num
•	NULL	NULL

```









35 • ○ CREATE TABLE PARTICIPATED (
36     driver_id VARCHAR(10),
37     reg_num VARCHAR(10),
38     report_num INT,
39     damage_amount INT,
40     PRIMARY KEY (driver_id, reg_num, report_num),
41     FOREIGN KEY (driver_id) REFERENCES PERSON(driver_id),
42     FOREIGN KEY (reg_num) REFERENCES CAR(reg_num),
43     FOREIGN KEY (report_num) REFERENCES ACCIDENT(report_num)
44 );
45 • SELECT * FROM participated;
46

```

Result Grid | | Filter Rows:  | Edit: | Export/Import:

	driver_id	reg_num	report_num	damage_amount
•	NULL	NULL	NULL	NULL

insuranceDB\* x




1 •

USE insurancedb;

2 •

show tables;











Result Grid




Filter Rows:

	Tables_in_insurancedb
▶	accident
	car
	owns
	participated
	person

insuranceDB\*




Limit to 1000 rows




1 • DESCRIBE PERSON;

Result Grid

Filter Rows:

Export: 

Wrap Cell Content: 

	Field	Type	Null	Key	Default	Extra
▶	driver_id	varchar(10)	NO	PRI	NULL	
	name	varchar(20)	YES		NULL	
	address	varchar(30)	YES		NULL	

## 2 • DESCRIBE CAR;

Result Grid

Filter Rows:

Export:

Wrap

	Field	Type	Null	Key	Default	Extra
►	reg_num	varchar(10)	NO	PRI	NULL	
	model	varchar(10)	YES		NULL	
	year	int	YES		NULL	

## 3 • DESCRIBE ACCIDENT;

Result Grid

Filter Rows:

Export:

Wrap Cells

	Field	Type	Null	Key	Default	Extra
▶	report_num	int	NO	PRI	NULL	
	accident_date	date	YES		NULL	
	location	varchar(20)	YES		NULL	

4 • DESCRIBE OWNS;

Result Grid						
		Filter Rows:		Export:		
	Field	Type	Null	Key	Default	Extra
▶	driver_id	varchar(10)	NO	PRI	NULL	
	reg_num	varchar(10)	NO	PRI	NULL	



insuranceDB\*

Limit to 1000 rows

1 • DESCRIBE PERSON;  
2 • DESCRIBE CAR;  
3 • DESCRIBE ACCIDENT;  
4 • DESCRIBE OWNS;  
5 • DESCRIBE PARTICIPATED;  
6

Result Grid
Filter Rows:
Export:
Wrap Cell Content:

	Field	Type	Null	Key	Default	Extra
▶	driver_id	varchar(10)	NO	PRI	NULL	
	reg_num	varchar(10)	NO	PRI	NULL	
	report_num	int	NO	PRI	NULL	
	damage_amount	int	YES		NULL	

Output

Action Output

#	Time	Action	Message
✓ 34	10:47:02	CREATE TABLE PARTICIPATED ( driver_id VARCHAR(10), reg_num VARCHAR(10), report_num INT, ...	0 row(s) affected
✓ 35	10:48:58	DESCRIBE PERSON	3 row(s) returned
✓ 36	10:48:58	DESCRIBE CAR	3 row(s) returned
✓ 37	10:48:58	DESCRIBE ACCIDENT	3 row(s) returned
✓ 38	10:48:58	DESCRIBE OWNS	2 row(s) returned
✓ 39	10:48:58	DESCRIBE PARTICIPATED	4 row(s) returned

insuranceDB\* x

Limit to 1000 rows

```
1 • INSERT INTO PERSON VALUES ('A01','Richard','Srinivas Nagar');
2 • INSERT INTO PERSON VALUES ('A02','Pradeep','Rajajinagar');
3 • INSERT INTO PERSON VALUES ('A03','Smith','Ashoknagar');
4 • INSERT INTO PERSON VALUES ('A04','Venu','N.R.Colony');
5 • INSERT INTO PERSON VALUES ('A05','John','Hanumanth Nagar');
6 • COMMIT;
7 • SELECT * FROM PERSON;
8
9 • INSERT INTO CAR VALUES ('KA052250','Indica',1990);
10 • INSERT INTO CAR VALUES ('KA031181','Lancer',1957);
11 • INSERT INTO CAR VALUES ('KA095477','Tovota',1998);
```

Result Grid | Filter Rows: | Edit: | Export/Import:

	driver_id	name	address
▶	A01	Richard	Srinivas Nagar
	A02	Pradeep	Rajajinagar
	A03	Smith	Ashoknagar
	A04	Venu	N.R.Colony
	A05	John	Hanumanth Nagar
*	NULL	NULL	NULL

insuranceDB\* x

Limit to 1000 rows

```

8
9 • INSERT INTO CAR VALUES ('KA052250', 'Indica', 1990);
10 • INSERT INTO CAR VALUES ('KA031181', 'Lancer', 1957);
11 • INSERT INTO CAR VALUES ('KA095477', 'Toyota', 1998);
12 • INSERT INTO CAR VALUES ('KA053408', 'Honda', 2008);
13 • INSERT INTO CAR VALUES ('KA041702', 'Audi', 2005);
14 • COMMIT;
15 • SELECT * FROM CAR;
16
17 • INSERT INTO ACCIDENT VALUES (11, '2003-01-01', 'Mysore Road');
18 • INSERT INTO ACCIDENT VALUES (12, '2004-02-02', 'Southend Circle');

```

Result Grid | Filter Rows: | Edit: | Export/Import:





	reg_num	model	year
▶	KA031181	Lancer	1957
	KA041702	Audi	2005
	KA052250	Indica	1990
	KA053408	Honda	2008
	KA095477	Toyota	1998
•	NULL	NULL	NULL

Che

```











61 • INSERT INTO ACCIDENT VALUES (11, '2003-01-01', 'Mysore Road');
62 • INSERT INTO ACCIDENT VALUES (12, '2004-02-02', 'Southend Circle');
63 • INSERT INTO ACCIDENT VALUES (13, '2003-01-21', 'Bulltemple Road');
64 • INSERT INTO ACCIDENT VALUES (14, '2008-02-17', 'Mysore Road');
65 • INSERT INTO ACCIDENT VALUES (15, '2005-03-04', 'Kanakpura Road');
66 • select * from accident;
67 • INSERT INTO OWNS VALUES ('A01', 'KA052250');
68 • INSERT INTO OWNS VALUES ('A02', 'KA053408');
69 • INSERT INTO OWNS VALUES ('A03', 'KA095477');
70 • INSERT INTO OWNS VALUES ('A04', 'KA031181');
71 • INSERT INTO OWNS VALUES ('A05', 'KA041702');

```





Result Grid			
Filter Rows: <input type="text"/>			
Edit:   			
Export/Import: 			
	report_num	accident_date	location
▶	11	2003-01-01	Mysore Road
	12	2004-02-02	Southend Circle
	13	2003-01-21	Bulltemple Road
	14	2008-02-17	Mysore Road
	15	2005-03-04	Kanakpura Road
•	NULL	NULL	NULL

Result Grid  
Form Editor

insuranceDB\* x

 Limit to 1000

```
22 • COMMIT;
23 • SELECT * FROM ACCIDENT;
24
25 • INSERT INTO OWNS VALUES ('A01','KA052250');
26 • INSERT INTO OWNS VALUES ('A02','KA053408');
27 • INSERT INTO OWNS VALUES ('A03','KA095477');
28 • INSERT INTO OWNS VALUES ('A04','KA031181');
29 • INSERT INTO OWNS VALUES ('A05','KA041702');
30 • COMMIT;
31 • SELECT * FROM OWNS;
32
```

Result Grid   Filter Rows:  Edit:  

	driver_id	reg_num
▶	A04	KA031181
	A05	KA041702
	A01	KA052250
	A02	KA053408
	A03	KA095477
•	NULL	NULL

```

75 • INSERT INTO PARTICIPATED VALUES ('A01','KA052250',11,10000);
76 • INSERT INTO PARTICIPATED VALUES ('A02','KA053408',12,50000);
77 • INSERT INTO PARTICIPATED VALUES ('A03','KA095477',13,25000);
78 • INSERT INTO PARTICIPATED VALUES ('A04','KA031181',14,3000);
79 • INSERT INTO PARTICIPATED VALUES ('A05','KA041702',15,5000);
80 • select * from participated;
81











```

Result Grid				
Filter Rows:				
Edit:				
Export/Import:				
	driver_id	reg_num	report_num	damage_amount
▶	A01	KA052250	11	10000
	A02	KA053408	12	50000
	A03	KA095477	13	25000
	A04	KA031181	14	3000
	A05	KA041702	15	5000
*	NULL	NULL	NULL	NULL

82 09:27:58 INSERT INTO PARTICIPATED VALUES ('A02','KA053408',12,50000) 1 row(s) affected





insuranceDB\* x






Limit to 1000 rows

```
1 • UPDATE PARTICIPATED
2   SET damage_amount = 25000
3   WHERE reg_num = 'KA053408' AND report_num = 12;
4 • COMMIT;
5 • SELECT * FROM PARTICIPATED;
```

Result Grid

 Filter Rows:

Edit: 




	driver_id	reg_num	report_num	damage_amount
▶	A01	KA052250	11	10000
	A02	KA053408	12	25000
	A03	KA095477	13	25000
	A04	KA031181	14	3000
	A05	KA041702	15	5000
•	NULL	NULL	NULL	NULL

67 10:54:54 UPDATE PARTICIPATED SET damage\_amount = 25000 WHERE reg\_num = 'KA053408' AND report\_num = 12 1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0

```

87 • INSERT INTO ACCIDENT VALUES (16,'2008-03-15','Domlur');
88 • COMMIT;
89 • SELECT * FROM ACCIDENT;
90

```

Result Grid			
Filter Rows: <input type="text"/>			
Edit:    Export/Import:			
	report_num	accident_date	location
▶	11	2003-01-01	Mysore Road
	12	2004-02-02	Southend Circle
	13	2003-01-21	Bulltemple Road
	14	2008-02-17	Mysore Road
	15	2005-03-04	Kanakpura Road
	16	2008-03-15	Domlur
•	NULL	NULL	NULL

```
119 12:32:19 INSERT INTO ACCIDENT VALUES (16,'2008-03-15','Domlur')
```

```
120 12:32:20 SELECT * FROM ACCIDENT LIMIT 0, 1000
```




z



92 • `SELECT accident_date, location FROM ACCIDENT;`

93 • `SELECT * FROM ACCIDENT;`

94

Result Grid			
Filter Rows: <input type="text"/>			
Edit:    Export			
	report_num	accident_date	location
▶	11	2003-01-01	Mysore Road
	12	2004-02-02	Southend Circle
	13	2003-01-21	Bulltemple Road
	14	2008-02-17	Mysore Road
	15	2005-03-04	Kanakpura Road
	16	2008-03-15	Domlur
•	NULL	NULL	NULL

96

97 • `SELECT driver_id FROM PARTICIPATED WHERE damage_amount >= 25000;`

98

Result Grid	
Filter Rows: <input type="text"/>	
Export:  Wrap Cell Content: 	
	driver_id
▶	A02
	A03