### **PROGRAM 1: INSURANCE DATABASE**

Consider the Insurance database given below. The primary keys are underlined and the data types are specified.

PERSON (driver-id #: String, name: String, address: String)

CAR (Regno: String, model: String, year: int)

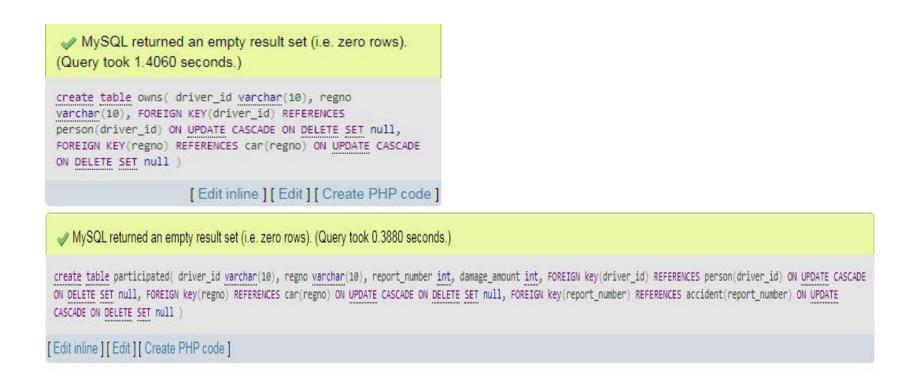
ACCIDENT (report-number: int, date: date, location: String)

OWNS (driver-id #: String, Regno: String)

PARTICIPATED (driver-id: String, Regno: String, report-number: int, damage-amount: int)

DEPARTMENT OF CSE

i. Create the above tables by properly specifying the primary keys and the foreign keys.



### Output:

Table 🔺	Actio	on						Rows @	Туре	Collation	Size	Overhead
accident	*	Browse	Structure	Search	<b>3-ċ</b> Insert	Empty	Drop	0	InnoDB	utf8mb4_general_ci	16.0 KiB	
car		Browse	Structure	· Search	3 € Insert	₩ Empty	Drop	0	InnoDB	utf8mb4_general_ci	16.0 KiB	-
owns	*	Browse	Structure	Rearch	<b>3-≟</b> Insert	Empty	Drop	0	InnoDB	utf8mb4_general_ci	48.0 KiB	-
participated	*	Browse	Structure	· Search	3 insert	₩ Empty	Drop	9	InnoDB	utf8mb4_general_ci	64.0 KiB	*
person	*	Browse	Structure	Rearch	<b>≱≟</b> Insert	Empty	Drop	0	InnoDB	utf8mb4_general_ci	16.0 KiB	2
5 tables	Sum							0	InnoDB	utf8mb4_general_ci	160.0 KiB	0 B

ii. Enter at least five tuples for each relation.

```
1 row inserted. (Query took 0.1500 seconds.)
INSERT INTO 'person'('driver_id', 'name', 'address') VALUES ('A1', 'Raj', 'R.T.Nagar, Bengaluru')
[Edit inline][Edit][Create PHP code]
 1 row inserted. (Query took 0.2140 seconds.)
INSERT INTO 'person'('driver_id', 'name', 'address') VALUES ('A2', 'Raja', 'R.K.Nagar, Bengaluru')
[Edit inline][Edit][Create PHP code]

√ 1 row inserted. (Query took 0.1620 seconds.)

INSERT INTO 'person' ('driver_id', 'name', 'address') VALUES ('A3', 'Shash', 'T.M.Nagar, Bengaluru')
Edit inline ] [ Edit ] [ Create PHP code ]

√ 1 row inserted. (Query took 0.0540 seconds.)

INSERT INTO 'person' ('driver_id', 'name', 'address') VALUES ('A4', 'Paris', 'Shivajinagar, Bengaluru')
Edit inline ] [ Edit ] [ Create PHP code ]
 1 row inserted. (Query took 0.0450 seconds.)
INSERT INTO `person`(`driver_id`, `name`, `address`) VALUES ('A5','Tokyo','Basvangudi, Bengaluru')
[ Edit inline ] [ Edit ] [ Create PHP code ]
```

-T→			7	driver_id	name	address
	Edit	<b>≩ċ</b> Copy	Delete	A1	Raj	R.T.Nagar, Bengaluru
	@ Edit	<b>≩</b> ≟ Copy	Delete	A2	Raja	R.K.Nagar, Bengaluru
	Edit	<b>≩</b> É Copy	Delete	A3	Shash	T.M.Nagar, Bengaluru
	2 Edit	<b>≩</b> € Copy	Delete	A4	Paris	Shivajinagar, Bengaluru
	🥜 Edit	<b>≩</b> ≟ Copy	Delete	A5	Tokyo	Basvangudi, Bengaluru

```
√ 1 row inserted. (Query took 0.0890 seconds.)

 INSERT INTO `car`(`regno`, `model`, `year`) VALUES ('123','A class',2018)
[ Edit inline ] [ Edit ] [ Create PHP code ]

√ 1 row inserted. (Query took 0.1160 seconds.)

 INSERT INTO `car`(`regno`, `model`, `year`) VALUES ('124','B class',2017)
[ Edit inline ] [ Edit ] [ Create PHP code ]

√ 1 row inserted. (Query took 0.0370 seconds.)

 INSERT INTO 'car'('regno', 'model', 'year') VALUES ('125', 'C class', 2020)
[ Edit inline ] [ Edit ] [ Create PHP code ]

√ 1 row inserted. (Query took 0.1090 seconds.)

 INSERT INTO `car`(`regno`, `model`, `year`) VALUES ('126','D class',2021)
[ Edit inline ] [ Edit ] [ Create PHP code ]

√ 1 row inserted. (Query took 0.0400 seconds.)

 INSERT INTO `car`(`regno`, `model`, `year`) VALUES ('127', 'E class', 2019)
[ Edit inline ] [ Edit ] [ Create PHP code ]
```

<del>-</del> T→				regno	model	year
	Edit	<b>3</b> -€ Copy	Delete	123	A class	2018
	Ø Edit	<b>≩</b> ≟ Copy	Delete	124	B class	2017
	@ Edit	<b>3</b> - Copy	Delete	125	C class	2020
	<i>⊘</i> Edit	<b>≩</b> € Copy	Delete	126	D class	2021
	Edit	<b>≩≟</b> Copy	Delete	127	E class	2019

```
1 row inserted. (Query took 0.1400 seconds.)
INSERT INTO 'accident' ('report_number', 'dateAcc', 'location') VALUES (1,'2021-01-10','Hebbal')
                                                                              [Edit inline][Edit][Create PHP code]
1 row inserted. (Query took 0.0920 seconds.)
INSERT INTO 'accident' ('report_number', 'dateAcc', 'location') VALUES (2,'2021-02-19','R.T.Nagar')
                                                                              [ Edit inline ] [ Edit ] [ Create PHP code ]
1 row inserted. (Query took 0.0410 seconds.)
INSERT INTO 'accident' ('report_number', 'dateAcc', 'location') VALUES (3,'2021-03-13','Yelahanka')
                                                                              [Edit inline][Edit][Create PHP code]
1 row inserted. (Query took 0.0400 seconds.)
INSERT INTO 'accident' ('report_number', 'dateAcc', 'location') VALUES (4,'2021-04-01', 'Basvangudi')
                                                                              [ Edit inline ] [ Edit ] [ Create PHP code ]
1 row inserted. (Query took 0.0770 seconds.)
INSERT INTO 'accident' ('report_number', 'dateAcc', 'location') VALUES (5,'2021-04-09','K.R.Puram')
                                                                              [ Edit inline ] [ Edit ] [ Create PHP code ]
 1 row inserted. (Query took 0.0560 seconds.)
INSERT INTO `accident`(`report_number`, `dateAcc`, `location`) VALUES (12,'2021-01-01','M.G.Road')
                                                                       [ Edit inline ] [ Edit ] [ Create PHP code ]
```

T→				▼ report_number	dateAcc	location
	Edit	<b>≩</b> сору	Delete	1	2021-01-10	Hebbal
	@ Edit	<b>≩≟</b> Copy	Delete	2	2021-02-19	R.T.Nagar
	Edit	<b>≩≟</b> Copy	Delete	3	2021-03-13	Yelahanka
	Edit	<b>≩≟</b> Copy	Delete	4	2021-04-01	Basvangudi
	Edit	<b>≩≟</b> Copy	Delete	5	2021-04-09	K.R.Puram
	€ Edit	<b>≩</b> ≟ Copy	Delete	12	2021-01-01	M.G.Road

```
√ 1 row inserted. (Query took 0.1140 seconds.)

 INSERT INTO 'owns' ('driver_id', 'regno') VALUES ('A4', '126')
[Edit inline][Edit][Create PHP code]

√ 1 row inserted. (Query took 0.1450 seconds.)

 INSERT INTO 'owns' ('driver_id', 'regno') VALUES ('A3', '124')
[ Edit inline ] [ Edit ] [ Create PHP code ]

√ 1 row inserted. (Query took 0.1830 seconds.)

 INSERT INTO 'owns' ('driver_id', 'regno') VALUES ('A1', '127')
[Edit inline][Edit][Create PHP code]
 1 row inserted. (Query took 0.0630 seconds.)
 INSERT INTO 'owns' ('driver_id', 'regno') VALUES ('A5', '123')
[ Edit inline ] [ Edit ] [ Create PHP code ]

✓ 1 row inserted. (Query took 0.0360 seconds.)
 INSERT INTO `owns`(`driver_id`, `regno`) VALUES ('A2','125')
[ Edit inline ] [ Edit ] [ Create PHP code ]
```

driver_id	regno
A4	126
A3	124
A1	127
A5	123
A2	125

```
1 row inserted. (Query took 0.0580 seconds.)
 INSERT INTO `participated`(`driver_id`, `regno`, `report_number`, `damage_amount`) VALUES ('A4','126',2,10000)
[ Edit inline ] [ Edit ] [ Create PHP code ]

√ 1 row inserted. (Query took 0.0730 seconds.)

 INSERT INTO 'participated' ('driver_id', 'regno', 'report_number', 'damage_amount') VALUES ('A3','124',1,15000)
[ Edit inline ] [ Edit ] [ Create PHP code ]

√ 1 row inserted. (Query took 0.0680 seconds.)

 INSERT INTO 'participated' ('driver_id', 'regno', 'report_number', 'damage_amount') VALUES ('A1','127',3,5000)
[ Edit inline ] [ Edit ] [ Create PHP code ]
 1 row inserted. (Query took 0.0410 seconds.)
 INSERT INTO 'participated' ('driver_id', 'regno', 'report_number', 'damage_amount') VALUES ('A5', '123', 4,50000)
[ Edit inline ] [ Edit ] [ Create PHP code ]

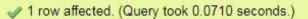
√ 1 row inserted. (Query took 0.1480 seconds.)

 INSERT INTO `participated`(`driver_id`, `regno`, `report_number`, `damage_amount`) VALUES ('A2','125',5,19812)
[ Edit inline ] [ Edit ] [ Create PHP code ]
```

driver_id	regno	report_number	damage_amount	
A4	126	2	10000	
A3	124	1	15000	
A1	127	3	5000	
A5	123	4	50000	
A2	125	5	19812	
A1	127	12	20000	

# iii.Demonstrate how you

a.Update the damage amount for the car with a specific Regno in the accident with report number 12 to 25000.

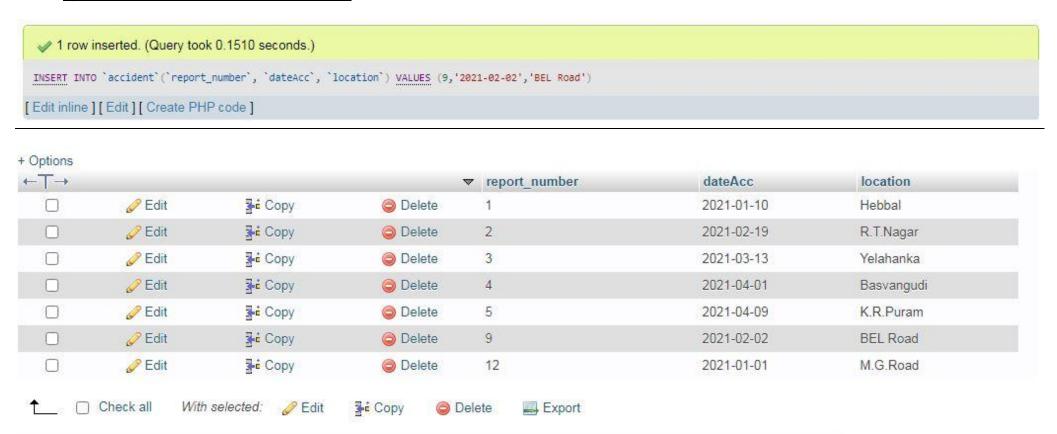


UPDATE participated set damage\_amount=25000 where report\_number=12 and regno=127

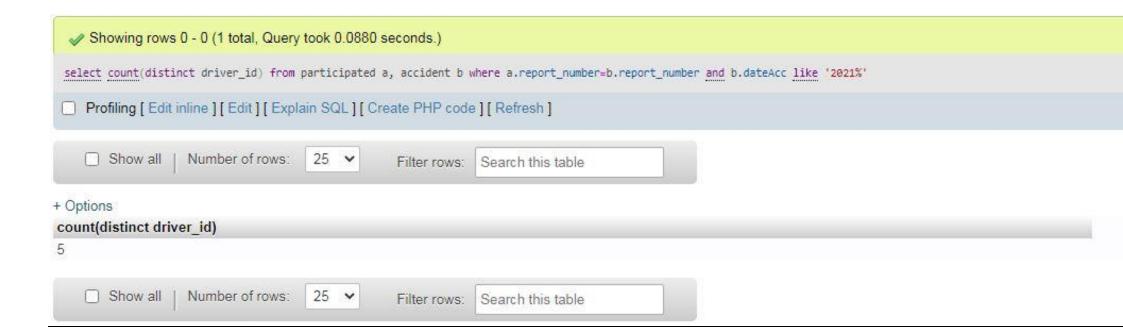
[ Edit inline ] [ Edit ] [ Create PHP code ]

regno	report_number	damage_amount	
126	2	10000	
124	1	15000	
127	3	5000	
123	4	50000	
125	.5	19812	
127	12	25000	
	126 124 127 123	126 2 124 1 127 3 123 4	126       2       10000         124       1       15000         127       3       5000         123       4       50000         125       5       19812

#### b) Add a new accident to the database.



iv. Find the total number of people who owned cars that involved in accidents in 2008.



v. Find the number of accidents in which cars belonging to a specific model were involved.

