Lab 1

Question:

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)

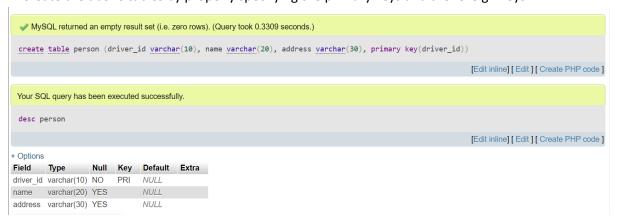
ACCIDENT (report-number: int, date: date, location: String)

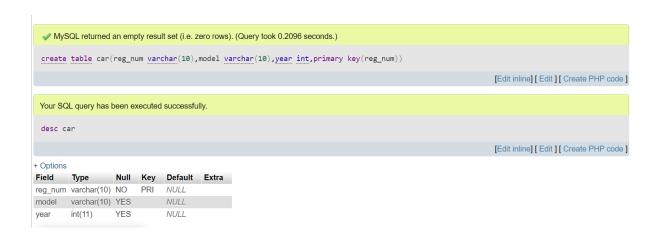
OWNS (driver-id #: String, Regno: String)

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

Queries:

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





✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.2495 seconds.)

create table accident(report_num int,accident_date date,location varchar(20),primary key(report_num))

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

Your SQL query has been executed successfully.

desc accident

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

+ Options

Field	Туре	Null	Key	Default	Extra
report_num	int(11)	NO	PRI	NULL	
accident_date	date	YES		NULL	
location	varchar(20)	YES		NULL	

MySQL returned an empty result set (i.e. zero rows). (Query took 0.3451 seconds.)

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

Your SQL query has been executed successfully.

desc owns

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

+ Options

Field	Type	Null	Key	Default	Extra
driver_id	varchar(10)	NO	PRI	NULL	
reg_num	varchar(10)	NO	PRI	NULL	

MySQL returned an empty result set (i.e. zero rows). (Query took 0.3808 seconds.)

create table participated(driver_id varchar(10), reg_num varchar(10), report_num int, damage_amount int, primary
key(driver_id,reg_num,report_num), foreign key(driver_id) references person(driver_id), foreign key(reg_num) references car(reg_num),
foreign key(report_num) references accident(report_num))

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

Your SQL query has been executed successfully.

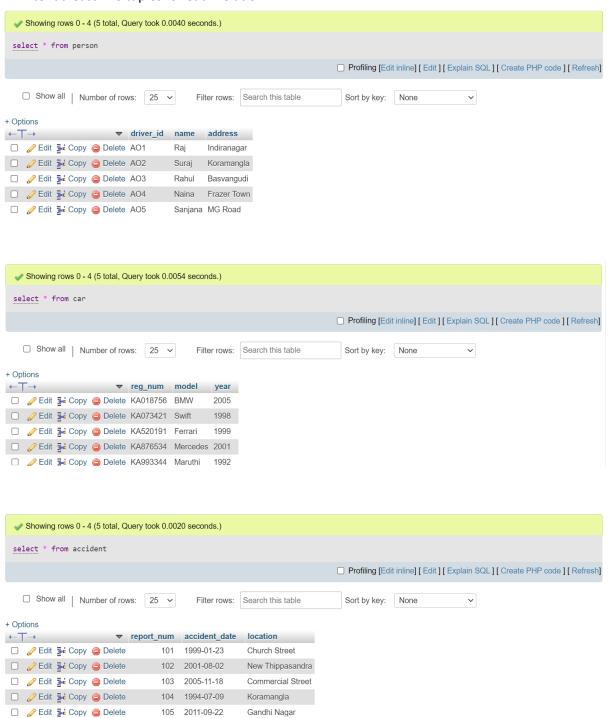
desc participated

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

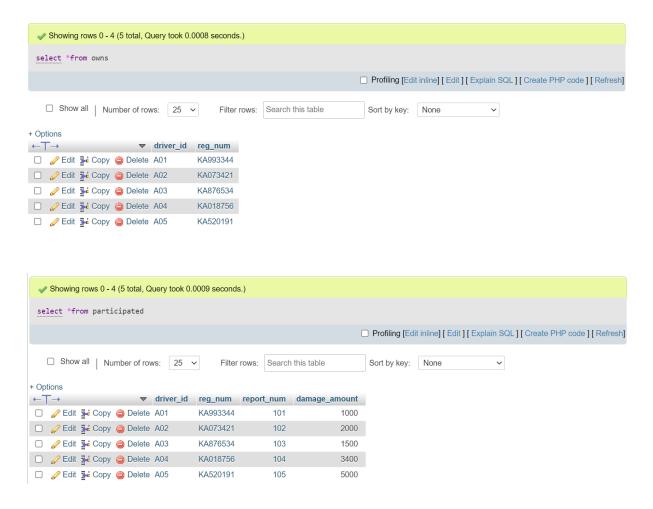
+ Options

Field	Туре	Null	Key	Default	Extra
driver_id	varchar(10)	NO	PRI	NULL	
reg_num	varchar(10)	NO	PRI	NULL	
report_num	int(11)	NO	PRI	NULL	
damage_amount	int(11)	YES		NULL	

ii. Enter at least five tuples for each relation.

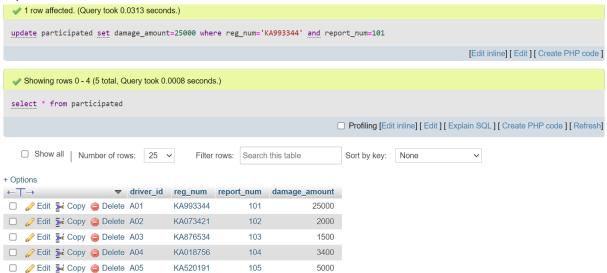


Gandhi Nagar



iii.Demonstrate how you

a. Update the damage amount for the car with a specific Regno in the accident with report number 101 to 25000.



b. Add a new accident to the database.

insert into accident values(106, '2001-02-22', Domlur);



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

select count (distinct driver_id) CNT from participated a, accident b where a.report_num=b.report_num and b.accident_date like '%08'			
	□ Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]		
☐ Show all Number of rows: 25 ∨ Filter rows: Search this table			
+ Options CNT 0			

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

select count(report_num) CNT from car c,participated p where c.reg_num=p.r	eg_num and model='Mercedes'
	☐ Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]
☐ Show all Number of rows: 25 ∨ Filter rows: Search this table	
+ Options CNT	