INSURANCE DATABASE TEJAS BHARADWAJ 1BM24CS310 DBMS LAB 1

```
create database bms123;
use bms123;
create table person(driver_id varchar(10), name varchar(10), address varchar(20), primary
key(driver_id));
create table car(reg_num varchar(10), model varchar(10), year int, primary key(reg_num));
create table accident(report_num int, accident_date date, location varchar(20), primary
key(report_num));
create table owns(driver_id varchar(10), reg_num varchar(10), foreign key(driver_id) references
person(driver_id), foreign key(reg_num) references car(reg_num));
drop table owns;
create table owns(driver id varchar(10), reg num varchar(10),
primary key(driver_id, reg_num),
foreign key(driver_id) references person(driver_id),
foreign key(reg_num) references car(reg_num));
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));
desc person;
desc car;
desc owns;
desc accident;
desc participated;
insert into person(driver_id, name, address)
values("A01","Richard","Srinavasanagar"),("A02","Pradeep","Basavanagudi"),("A03","Smith","Ashok
nagar"),("A04","Venu","NR colony"),("A05","Jhon","Hanumanthanagar");
insert into car
(reg_num, model, year)
values("KA052250","Indiea",1990),("KA031181","Laneer",1982),("KA095456","Toyota",1998),("KA04
8936","Honda","1967"),("KA056767","Audi",2007);
```

```
insert into accident(report_num, accident_date, location) values(11,"2002-02-
01", "Basavanagudi"), (12, "2001-12-11", "Hanumanthanagar"), (13, "2012-05-
31","Jayanagar"),(14,"2012-12-21","Basavanagudi"),(15,"2007-02-12","Srinivasanagar");
insert into owns(driver id, reg num)
values("A01","KA052250"),("A02","KA031181"),("A03","KA095456"),("A04","KA048936"),("A05","KA
056767");
insert into participated(driver id,reg num,report num,damage amount) values
("A01","KA052250",11,15000),("A02","KA031181",12,10000),("A03","KA095456",13,20000),("A04","
KA048936",14,28000),("A05","KA056767",15,50000);
-- Find drivers who caused damage ≥ 25000
select pa.driver_id, p.name from participated pa,person p where(p.driver_id=pa.driver_id and
pa.damage amount>=25000);
-- Show all accidents (date and location)
select accident_date,location from accident;
-- List each driver with the cars they own (one row per ownership)
select p.name,c.model from person p, car c, owns o where(p.driver_id=o.driver_id and
c.reg num=o.reg num);
-- Show accidents and the drivers involved (including damage amount)
select p.driver_id,p.name,a.report_num,a.accident_date,a.location,pa.damage_amount
from accident a, person p, participated pa
where(a.report num=pa.report num and p.driver id=pa.driver id)
```

Total damage per accident report
select report_num,damage_amount from participated;
Drivers who were involved in more than one accident
select driver_id
from participated
group by driver_id
having count(report_num)>1;
Cars that never had an accident (owned but not in participated)
select o.driver_id,o.reg_num
from owns o
where o.driver_id not in (select driver_id from participated);
Latest accident (most recent accident_date)
select *from accident
order by accident_date desc
limit 1;
limit 1;
limit 1;
limit 1;
limit 1; Average damage amount per driver

```
-- Update: set damage_amount = 25000 for a specific car & report (example)
select * from participated;
update participated
set damage_amount=25000
where reg_num="KA031181" and report_num=12;
select *from participated;
-- Find drivers who caused the maximum damage in any single accident
select driver_id from participated where damage_amount=(select max(damage_amount) from
participated);
-- Show cars (model) involved in accidents with total damage > 20000
select c.model from car c,participated p where c.reg_num=p.reg_num and
p.damage_amount>20000;
-- Create a view summarizing accidents with participants count and total damage
create view accident_summary as
select count(driver_id) as participant_count,sum(damage_amount) as total_damage
from participated;
select *from accident_summary;
```

_	DBMS Program -1
	the state of the same of the same
-	August Brown and Brown - Inner and the
	create database insurance;
_	use insulance;
	create table person (driver_id) varchar (10))
_	name varchau(20), address varchau(20), primary heyldriversi
	create table car (reginum varchar(10) primary key,
_	model varchar (10), year int, primary key (reg_num)
	location varchar(20), primary key (report-num))
	location varchar(20), primary key (report-num));
	create table owns (driver_id varchar (10), req_num
1	Soreign key (driver-id) references person (driver-in
	Soverign hey(reg_num) references car (reg_num)
	create table participated (driversid varchar(10) reg num
	varchar (10), report-num int, damage-amount-int,
-	primary key (driver-id, reg-num, report nam),
-	foreign key (driver-id) references person (driver-id),
_	Soreign key(reg-num) references car (reg-num)
-	foreign key (report-num) references accident (report-num)
	insert into person values ("nos", "Richard", "Srinivasara
-	("Aoz", "Prudeep", "Basavanagudi");
	insert into car
-	values ("KAOS 2250", "Indiea", 1990),
	("KAO 31181", "Langer", 1982);

insert into accidents values (11, "2002-02-01", "Basavanagudi") (12, "2001-12-11", Hanumonthanagar'). insert into owns values ('AOL", "KAOS? 250"), ("AOZ", "KAOBILBI) insert into participated values ("AOL", "KAOS 2250", 11,25000) ("AO2", "KA 03/18/0", 12, 1000); -- Find drivers who caused damages = 25000 select bardriver-id , prome from participated parperson p where producer - id = pardriver - id and pardamage another Output: driver id name Richard A01 -- show all accidents (date and location) select accident date, location from accident; output: accident date location Basavaragudi 2002-02-01 2001-12-11 Hanumanthanagar

	Poge
Li	st each driver with the cars they own
select	p-name, comodel
Som 1	person b, car c, owns o
where	(poderver_id = ordriver_id and coreg_num:
Outpu	+
name	model 11 4 4 4 4
Richa	
183	L. Comments of the comments of
Prade	ep Lander
51	now accidents and the drive's involved (down
select	p-driver-id, p-name, a-report-num,
	eldest-date, a objection, ba damage-an
a.a.	
Stom	accident a person b, participated
Stom	accident a person b, participated
Stom	accident a person b, participated
Stom wher	accident a person b, porticipated (a.report_num pa.report_num and p.driver_id)
Stom	accident a person b, porticipated (a.report_num pa.report_num and p.driver_id)
Stom when	accident a person b, participated (a.report_num = parreport_num and prodriver_id)
a.a. Stom wher	accident a person b participated (a-report-num pareport-num and podriver-side pandriver-sid) to de nome report-num accident-date lastian de
Stom wher output	accident a person b, participated (areport num pareport num and prodriver sid = pardriver sid) t: id name report num accident date laution de Richard 11 2002-02-11 Bossonagedi
a.a.c. Stom wher	accident a person b participated (a-report-num pareport-num and podriver-sid pandriver-sid) to de name report-num accident-date lastion de
a.a.c. Stom wher wher arthur driver	accident a person b, participated (areport num pareport num and prodriver sid = pardriver sid) t: id name report num accident date laution de Richard 11 2002-02-11 Bossonagedi
Stom when Output driver	accident a person b participated (a.report_num=pa.report_num and p.driver_sid=pa.driver_sid) t. id name report_num accident_date location da Ruhard 11 2002-02-11 Bosnoragadi Pracleep 12 2001-12-11 Hopumathana
Stom when output driver	accident a person b, participated (areport num pareport num and prodriver sid = pardriver sid) t: id name report num accident date laution de Richard 11 2002-02-11 Bossonagedi
Anthur Ans	accident a person b participated (a.report_num=pa.report_num and p.driver_sid=pa.driver_sid) t. id name report_num accident_date location da Ruhard 11 2002-02-11 Bosnoragadi Pracleep 12 2001-12-11 Hopumathana

report num damage amount 12 10000 - Drivers who were involved in more than one select driver id from participated group by driver id having count(report num)>1; Output: driver id (are that never had an accident select advertid areg num from owns a where ordriver id not in (select driver id participated) Output driver id reg num Nour Nour	output	
12 10000 - Drivers who were involved in more than one select driver_id from farticipated group by driver_id having count(report_num)>1; Output: driver_id Cars that never had an arcident select ordriver_id, areg_num from owns a where ordriver_id not in (select driver_id participated) Output driver_id reg_num NULL NULL		ge - amount
- Drivers who were involved in more than one select driver-id from farticipated group by driver-id naving count(report-num)>1; Output: driver-id select condiver-id, oreg-num from owns o where ordriver-id not in (select driver-id participated) Output:	250	
Drivers who were involved in more than one select driver_id from participated group by driver_id having count(report_num)>1; Output: driver_id cars that never had an arrident select codriver_id, oreg_num from owns o where ordriver_id not in (select driver_id participated) Output driver_id reg_num NULL NULL	\ mm	00
select driver_id from participated growp by driver_id naving count(report_num)>1; Output: driver_id select ordiver_id, oreg_num from owns o where ordriver_id not in(select driver_id participated) Output driver_id reg_num NOIL NOUL		and the second second
select driver_id from farticipated group by driver_id having count(report_num)>1; Output: driver_id (ors that never had an accident select coduver_id, oreg_num from owns a where ordriver_id not in (select driver_id participated) Output driver_id reg_num NULL NULL	1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	hards model broke
select driver_id from farticipated growp by driver_id having count(report_num)>1; Output: driver_id (ars that never had an accident select ordriver_id, oreg_num from owns a where ordriver_id not in (select driver_id participated) Output driver_id reg_num NULL NULL	1	involved in more than one
from farticipated group by driver_id having count(report_num)>1; Output: driver_id (are that never had an accident select orderer_id, oreg_num from owns o where ordriver_id not in (select driver_id participated) Output driver_id reg_num NULL NULL	Drivers who wer	1,41,4
from farticipated group by driver_id having count(report_num)>1; Output: driver_id (are that never had an accident select orderer_id, oreg_num from owns o where ordriver_id not in (select driver_id participated) Output driver_id reg_num NULL NULL		
from farticipated group by driver_id having count(report_num)>1; Output: driver_id (are that never had an accident select orderer_id, oreg_num from owns o where ordriver_id not in (select driver_id participated) Output driver_id reg_num NULL NULL	select driver-id	
group by driver_id having count(report_num)>1; Output: (ars that never bad an accident select orderer_id, oreg_num from owns o where orderer_id not in (select driver_id participated) Output driver_id reg_num NULL NULL	from barticipated	The state of the s
Ariver_id (ars that never had an accident select ordiver_id, oreg_num from owns o where ordriver_id not in (select driver_id participated) Output driver_id reg_num NULL NULL	1 has driver in	Shill Service Shell Shi
Output: driver_id Cars that never had an accident select ordriver_id, oreg_num from owns o where ordriver_id not in (select driver_id participated) Output driver_id reg_num NULL NULL	having count (report	-num) s1;
driver_id cars that never had an accident select ordiver_id, areg_num from owns a where ordriver_id not in (select driver_id participated) Output driver_id reg_num NULL NULL	9	
driver_id cars that never had an accident select ordiver_id, areg_num from owns a where ordriver_id not in (select driver_id participated) Output driver_id reg_num NULL NULL		A CONTRACTOR OF THE STREET
driver_id cars that never had an accident select ordiver_id, areg_num from owns a where ordriver_id not in (select driver_id participated) Output driver_id reg_num NULL NULL	0.41.1	on stations of
select conduceraid, orreganum from owns a where ordriveraid not in (select driveraid participated) Output driveraid reganum NULL NULL	Output:	
select conduceraid, orreganum from owns a where ordriveraid not in (select driveraid participated) Output driveraid reganum NULL NULL		William Coll U NACK
select conduceraid, orreganum from owns a where ordriveraid not in (select driveraid participated) Output driveraid reganum NULL NULL	driver_id	14.
select codiversid, orregenum from owns o where codriversid not in (select driversid participated) Output driversid regenum NULL NULL		
select codiversid, orregenum from owns o where codriversid not in (select driversid participated) Output driversid regenum NULL NULL	material of man	Ti a
select codiversid, orregenum from owns o where codriversid not in (select driversid participated) Output driversid regenum NULL NULL	cars that never t	and an arrident
ontput driver-id reg-num NULL NULL	KILT HULDS IN COLUMN	
ontput driver-id reg-num NULL NULL	select ordiver-id.	orreg-num
output driver-id reg-num NULL NULL	from ourse o	O CONTRACTOR
Output driver-id reg-num NULL NULL	has a driver to	1 not in (select driver_id
ontput driver-id reg-num NULL NULL	WHELE O'GILLACITO	bort (cibated)
driver-id reg-num	THE CONTRACTOR	
driver-id reg-num		at the same
driver-id reg-num		
NULL NULL	output	
NULL NULL		
NULL NULL	driver-id reg-nu	m
	NULL NULL	
the state of the s		I have been been been been been been been be
		100 100

	Date
Latest anident	10/24
select + from accident	It aut
select * from accident order by accident-date description it 1;	158
Output:	V Vine 2
report - num accident - date	location
45+11 2002-02-11	Basavanagud
the state of the s	1.4 /8/15
mallow that Tapping	& arries
Average damage amount	ber duiver.
Table 1	1
select driver-id, any (damage-am	ount)
From builticipated group by de	ount)
select driver-id, any (damage - am from barticipated group by dr Output:	ount) iver_id;
driver-id avg (damage-ama	109
driver-id avgldamage-amou A01 25000,0000	109
output: driver-id avgldamage-amou	109
driver-id avgldamage-amou A01 25000,0000	nt)
Output: driver-id avg (damage-amou A01 25000,0000 A02 10000,0000 update: set damage-25000 for	nt)
driver_id avg(damage_aman A01 25000,0000 A02 10000,0000 update set damage 25000 for select * Soon part	nt)
Output: driver_id avg(damage_amai A01 25000,0000 A02 10000,0000 update: set damage= 25000 for select * Soon port update participated	nt)
driver_id avg(damage_aman A01 25000,0000 A02 10000,0000 update set damage 25000 for select * Soon part	a specific car.

		Date/_ Page/
output:		Lydyn
driver-id reg-num	report nu	m daman.
A01 148051350		m damage.
AOZ KAOZIISI	1,5	2500
		ale to a
- Find drivers	who caused	the maximu
- Find drivers , damage in a	iny single an	ident
	9 9	tootal
select driver-id &	rom barticipa	A e d
select driver-id & where damage	-amount - (sel	ect maxldamo
7	fre	m participate
Output:	and the state	Control Constitution
- Anna A	Large Gales &	1
driver-id		
ROI		
BOS		I TO A
(Ambana a		1
Show cars (mo	del) with toto	il damage >
		100
select comodel		
select comodel	icibated b	
from car c. part		and
from car c. part where coregina	m = poreg - num	
from car c. part where coregina		
From car c. part where c. reg-nor p.damag	m = poreg - num	
from car c. part where coregina	m = poreg - num	
From car c. part where c. reg-nor p.damag	m = poreg - num	
From car c. part where coregonal podamag	m = poreg - num	

Create a view	O Summarizing audient
with particul	summarizing accident and total dan
select count(drive	dent-summary as 1-id) as participant-cou
From participated	ege - amount) as total-do
select * from a	cident - summary;
	9,
Output:	
	total-damage
penticipant count	TO ILLA I TO INTERNATION OF