

WEEK 01 AND WEEK 02

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show databases;

create database test;

use test;

create table person(

driver_id varchar(10) primary key,

name varchar(20),

adress varchar(30));

desc person;

create table car(

reg_num varchar(10) primary key,

model varchar(10),

year int);

desc car;

create table accident(

report_num int primary key,

accident_date date,

location varchar(20));

desc accident;

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));

desc owns;

```
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 participated;
```

```
insert into person values("A01","richard","srinivas nagar"),
("A02","pradeep","rajaji nagar"),
("A03","smith","ashok nagar"),
("A04","venu","nk colony"),
("A05","john","hanuman nagar");
```

```
insert into car values("KA052250","indica",1990),
("KA052251","toyota",1957),
("KA052252","honda",1998),
("KA052253","audi",2008),
("KA052254","lambo",2005);
```

```
insert into owns values("A01","KA052250"),
("A02","KA052251"),
("A03","KA052252"),
("A04","KA052253"),
("A05","KA052254");
```

```
INSERT INTO accident VALUES(11, '2003-01-01', 'Mysore Road'),
(12, '2004-02-02', 'South end Circle'),
(13, '2003-01-21', 'Bull temple Road'),
(14, '2008-02-17', 'Mysore Road'),
```

(15, '2005-03-04', 'Kanakpura Road');

```
INSERT INTO participated VALUES('A01', 'KA052250', 11, 10000),  
('A02', 'KA052251', 12, 20000),  
('A03', 'KA052252', 13, 25000),  
('A04', 'KA052253', 14, 30000),  
('A05', 'KA052254', 15, 50000);
```

select * from person;

	driver_id	name	adress
▶	A01	richard	srinivas nagar
	A02	pradeep	rajaji nagar
	A03	smith	ashok nagar
	A04	venu	nk colony
	A05	john	hanuman nagar
*	NULL	NULL	NULL

select * from car;

	reg_num	model	year
▶	KA052250	indica	1990
	KA052251	toyota	1957
	KA052252	honda	1998
	KA052253	audi	2008
	KA052254	lambo	2005
*	NULL	NULL	NULL

select * from owns;

	driver_id	reg_num
▶	A01	KA052250
	A02	KA052251
	A03	KA052252
	A04	KA052253
	A05	KA052254
*	NULL	NULL

select*from accident;

	report_num	accident_date	location
▶	11	2003-01-01	Mysore Road
	12	2004-02-02	South end Circle
	13	2003-01-21	Bull temple Road
	14	2008-02-17	Mysore Road
	15	2005-03-04	Kanakpura Road
	16	2008-03-15	Domlur

select*from participated;

	driver_id	reg_num	report_num	damage_amount
▶	A01	KA052250	11	10000
	A02	KA052251	12	25000
	A03	KA052252	13	25000
	A04	KA052253	14	30000
	A05	KA052254	15	50000
*	NULL	NULL	NULL	NULL

update participated set damage_amount=25000 where report_num=12;

insert into accident(report_num, accident_date, location)

values (16,'2008-03-15','Domlur');

select * from car order by year asc;

	reg_num	model	year
▶	KA052251	toyota	1957
	KA052250	indica	1990
	KA052252	honda	1998
	KA052254	lambo	2005
	KA052253	audi	2008
*	NULL	NULL	NULL

select count(*) CNT from car c,participated p where c.reg_num=p.reg_num and model="audi";

	CNT
▶	1

select count(driver_id) CNT from participated a,accident b where a.report_num=b.report_num and year(b.accident_date)=2003;

	CNT
▶	1

select * from participated order by damage_amount desc;

	driver_id	reg_num	report_num	damage_amount
▶	A05	KA052254	15	50000
	A04	KA052253	14	30000
	A02	KA052251	12	25000
	A03	KA052252	13	25000
	A01	KA052250	11	10000
✱	NULL	NULL	NULL	NULL

-- week 02

select accident_date, location from accident;

	accident_date	location
▶	2003-01-01	Mysore Road
	2004-02-02	South end Circle
	2003-01-21	Bull temple Road
	2008-02-17	Mysore Road
	2005-03-04	Kanakpura Road
	2008-03-15	Domlur

select p.driver_id, p.name, c.model from person p, car c, owns o
where p.driver_id = o.driver_id and o.reg_num = c.reg_num;

	driver_id	name	model
▶	A01	richard	indica
	A02	pradeep	toyota
	A03	smith	honda
	A04	venu	audi
	A05	john	lambo

select a.report_num, a.accident_date, a.location, m.driver_id, p.damage_amount
from accident a, participated p, person m
where a.report_num = p.report_num and p.driver_id = m.driver_id;

	report_num	accident_date	location	driver_id	damage_amount
▶	11	2003-01-01	Mysore Road	A01	10000
	12	2004-02-02	South end Circle	A02	25000
	13	2003-01-21	Bull temple Road	A03	25000
	14	2008-02-17	Mysore Road	A04	30000
	15	2005-03-04	Kanakpura Road	A05	50000

```
select report_num, SUM(damage_amount) AS total_damage
from participated
group by report_num;
```

	report_num	total_damage
▶	11	10000
	12	25000
	13	25000
	14	30000
	15	50000

```
select driver_id, count(distinct report_num) as accident_count
from participated
group by driver_id
having count(distinct report_num) > 1;
```

	driver_id	accident_count
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```
select c.reg_num, c.model
from car c ,participated p
where c.reg_num = p.reg_num and p.reg_num IS NULL;
```

	reg_num	model
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```
select * from accident order by accident_date desc limit 1;
```

	report_num	accident_date	location
▶	16	2008-03-15	Domlur
*	NULL	NULL	NULL

```
select driver_id, avg(damage_amount) AS avg_damage from participated group by driver_id;
```

	driver_id	avg_damage
▶	A01	10000.0000
	A02	25000.0000
	A03	25000.0000
	A04	30000.0000
	A05	50000.0000

```
select driver_id, damage_amount from participated  
order by damage_amount desc limit 1;
```

	driver_id	damage_amount
▶	A05	50000

```
select distinct driver_id,damage_amount from participated where damage_amount >= 25000;
```

	driver_id	damage_amount
▶	A02	25000
	A03	25000
	A04	30000
	A05	50000

```
select c.model, p.damage_amount  
from car c,participated p  
where c.reg_num = p.reg_num and damage_amount>20000;
```

	model	damage_amount
▶	toyota	25000
	honda	25000
	audi	30000
	lambo	50000

```
create view acci_summary as  
select  
a.report_num, a.accident_date, a.location,  
count(p.driver_id) as participant_count,  
sum(p.damage_amount) as total_damage
```

```
from accident a,participated p
where a.report_num = p.report_num
group by a.report_num;
```

```
select * from acci_summary;
```

	report_num	accident_date	location	participant_count	total_damage
▶	11	2003-01-01	Mysore Road	1	10000
	12	2004-02-02	South end Circle	1	25000
	13	2003-01-21	Bull temple Road	1	25000
	14	2008-02-17	Mysore Road	1	30000
	15	2005-03-04	Kanakpura Road	1	50000