

LAB 1 and 2

```
create database insurance;  
show databases;  
use insurance;
```

```
create table person (  
    driver_id varchar(10) primary key,  
    name varchar(20),  
    address varchar(30)  
);
```

```
create table car (  
    reg_num varchar(10) primary key,  
    model varchar(10),  
    year int  
);
```

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

```
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)
);
```

-- PERSON

```
insert into person values('A01','Richard','Srinivas Nagar');
insert into person values('A02','Pradeep','Rajajinagar');
insert into person values('A03','Smith','Ashoknagar');
insert into person values('A04','Venu','N.R.Colony');
insert into person values('A05','John','Hanumanth Nagar');
```

```
select * from person;
```

-- CAR

```
insert into car values('KA052250','Indica',1990);
insert into car values('KA031181','Lancer',1957);
insert into car values('KA095477','Toyota',1998);
insert into car values('KA053408','Honda',2008);
insert into car values('KA041702','Audi',2005);
```

```
select * from car;
```

-- ACCIDENT

```
insert into accident values(11,'01-JAN-03','Mysore Road');
insert into accident values(12,'02-FEB-04','Southend Circle');
insert into accident values(13,'21-JAN-03','Bulltemple Road');
insert into accident values(14,'17-FEB-08','Mysore Road');
insert into accident values(15,'04-MAR-05','Kanakpura Road');
```

```
select * from accident;
```

-- OWNS

```
insert into owns values('A01','KA052250');
insert into owns values('A02','KA053408');
insert into owns values('A03','KA095477');
insert into owns values('A04','KA031181');
insert into owns values('A05','KA041702');
```

```
select * from owns;
```

```

-- PARTICIPATED
insert into participated values('A01','KA052250',11,10000);
insert into participated values('A02','KA053408',12,50000);
insert into participated values('A03','KA095477',13,25000);
insert into participated values('A04','KA031181',14,3000);
insert into participated values('A05','KA041702',15,5000);

select * from participated;

update participated
set damage_amount = 25000
where reg_num = 'KA053408' and report_num = 12;

insert into accident values(16,'15-MAR-08','Domlur');

select accident_date, location
from accident;

select driver_id
from participated
where damage_amount >= 25000;

```

LAB 2

10 Queries

Query 1

```

UPDATE participated
SET damage_amount = 25000
WHERE reg_num = 'KA053408' AND report_num = 12;

INSERT INTO accident (report_num, accident_date, location)
VALUES (17, '2008-03-15', 'majestic');

```

```

103 • UPDATE participated
104     SET damage_amount = 25000
105     WHERE reg_num = 'KA053408' AND report_num = 12;
106
107
108 • INSERT INTO accident (report_num, accident_date, location)
109     VALUES (17, '2008-03-15', 'majestic');
110
111

```

Query 2

SELECT *

FROM car

ORDER BY year ASC;

```

---
112 • SELECT *
113     FROM car
114     ORDER BY year ASC;
115

```

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

Query 3

SELECT COUNT(report_num) AS CNT

FROM car c, participated p

WHERE c.reg_num = p.reg_num AND c.model = 'Lancer';

```

117 • SELECT COUNT(report_num) AS CNT
118 FROM car c, participated p
119 WHERE c.reg_num = p.reg_num AND c.model = 'Lancer';
120
121

```

Result Grid		Filter Rows:	Export:	Wrap Cell Content:
	CNT			
▶	1			

Query 4

```

SELECT COUNT(DISTINCT driver_id) AS CNT
FROM participated a, accident b
WHERE a.report_num = b.report_num
AND b.accident_date LIKE '%08%';

```

```

122 • SELECT COUNT(DISTINCT driver_id) AS CNT
123 FROM participated a, accident b
124 WHERE a.report_num = b.report_num
125 AND b.accident_date LIKE '%08%';
126

```

Result Grid		Filter Rows:	Export:	Wrap Cell Content:
	CNT			
▶	1			

Query 5

```

SELECT COUNT(DISTINCT a.driver_id) AS CNT
FROM participated a, accident b, car c
WHERE a.report_num = b.report_num
AND a.reg_num = c.reg_num

```

AND b.accident_date LIKE '%08%'

AND c.model = 'Lancer';

```
128 • SELECT COUNT(DISTINCT a.driver_id) AS CNT
129 FROM participated a, accident b, car c
130 WHERE a.report_num = b.report_num
131 AND a.reg_num = c.reg_num
132 AND b.accident_date LIKE '%08%'
133 AND c.model = 'Lancer';
134
```

Result Grid

	CNT
▶	1

Filter Rows: Export: Wrap Cell Content:

Query 6

SELECT *

FROM participated

ORDER BY damage_amount DESC;

```
135 • SELECT *
136 FROM participated
137 ORDER BY damage_amount DESC;
138
```

Result Grid

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

Filter Rows: Edit: Export/Import:

Query 7

```
SELECT AVG(damage_amount)
FROM participated;
```

```
139 • SELECT AVG(damage_amount)
140 FROM participated;
141
142
```

Result Grid | | Filter Rows: | Export: | Wrap Cell Content:

	AVG(damage_amount)
▶	13600.0000

Query 8

```
DELETE p
FROM participated p
JOIN (
    SELECT AVG(damage_amount) AS avg_damage
    FROM participated
) avg_table
WHERE p.damage_amount < avg_table.avg_damage;
```

```
144 • DELETE p
145 FROM participated p
146 JOIN (
147     SELECT AVG(damage_amount) AS avg_damage
148     FROM participated
149 ) avg_table
150 WHERE p.damage_amount < avg_table.avg_damage;
```

Query 9

```
SELECT name
FROM person a, participated b
```

WHERE a.driver_id = b.driver_id

AND b.damage_amount > (SELECT AVG(damage_amount) FROM participated);

```
153 • SELECT name |
154 FROM person a, participated b
155 WHERE a.driver_id = b.driver_id
156 AND b.damage_amount > (SELECT AVG(damage_amount) FROM participated);
157
158 • SELECT MAX(damage_amount)
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

	name
▶	Pradeep
	Smith

Query 10

SELECT MAX(damage_amount)

FROM participated;

```
158 • SELECT MAX(damage_amount)
159 FROM participated;
160
```

Result Grid | Filter Rows: | Export

	MAX(damage_amount)
▶	25000