WEEK – 1

INSURANCE DATABASE

Consider the Insurance database given below.

PERSON (driver_id: String, name: String, address: String)
CAR (reg_num: String, model: String, year: int)
ACCIDENT (report_num: int, accident_date: date, location: String)
OWNS (driver_id: String, reg_num: String)
PARTICIPATED (driver_id: String,reg_num: String, report_num: int, damage_amount: int)

i. Create the above tables by properly specifying the primary keys and the foreign keys.
ii. Enter at least five tuples for each relation
iii. Display Accident date and location
iv. Update the damage amount to 25000 for the car with a specific reg_num (example 'KA053408') for which the accident report number was 12.
v. Add a new accident to the database.
vi. Display Accident date and location
vii. Display driver id who did accident with damage amount greater than or equal to Rs.25000

Create tables :-

```
create database insurance;
use insurance;

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


create table car(
reg_num varchar(10),
model varchar(10),
year int(4),
primary key(reg_num));
```

```sql
create table accident(
report_num int,
accident_date date,
location varchar(30),
primary key(report_num));

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));
```

Inserting values:-

```sql
insert into person value('A01','Richard','Srinivas nagar'),
('A02','Pradeep','Rajaji nagar'),
('A03','Smith','Ashok nagar'),
('A04','Venu','N R Colony'),
('A05','Jhon','Hanumanth nagar');
```

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

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

insert into accident values(11,'2003-01-01','Mysore Road'),
(12,'2004-02-02','South end Cirle'),
(13,'2003-01-21','Bull temple Road'),
(14,'2008-02-14','Mysore Road'),
(15,'2005-03-04','Kanakpura Road');

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

Display Accident date and location:-

```sql
select accident_date, location from accident;
```

accident_date	loaction
2003-01-01	Mysore Road
2004-02-02	South end Cirle
2003-01-21	Bull temple Road
2008-02-14	Mysore Road
2005-03-04	Kanakpura Road

Update the damage amount to 25000 for the car with a specific reg_num (example 'KA053408') for which the accident report number was 12.

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

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

Add a new accident to the database.

```sql
insert into accident values(16,'2008-03-15','majestic');
select * from accident;
```

	report_num	accident_date	loaction
▶	11	2003-01-01	Mysore Road
	12	2004-02-02	South end Cirle
	13	2003-01-21	Bull temple Road
	14	2008-02-14	Mysore Road
	15	2005-03-04	Kanakpura Road
	16	2008-03-15	majestic
*	NULL	NULL	NULL

Display Accident date and location:-

```
select accident_date,location from accident;
```

	accident_date	loaction
▶	2003-01-01	Mysore Road
	2004-02-02	South end Cirle
	2003-01-21	Bull temple Road
	2008-02-14	Mysore Road
	2005-03-04	Kanakpura Road
	2008-03-15	majestic

Display driver id who did accident with damage amount greater than or equal to Rs.25000

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

	driver_id
▶	A02
	A03