

DBMS LAB 1 :-

```
CREATE TABLE PERSON(  
    driver_id VARCHAR(10),  
    name VARCHAR(20),  
    address VARCHAR(50),  
    PRIMARY KEY(driver_id)  
);
```

```
CREATE TABLE CAR(  
    regno VARCHAR(10),  
    model VARCHAR(20),  
    year VARCHAR(4),  
    PRIMARY KEY(regno)  
);
```

```
CREATE TABLE ACCIDENT(  
    report_no INT,  
    date DATE,  
    location VARCHAR(50),  
    PRIMARY KEY(report_no)  
);
```

```
CREATE TABLE OWNS(  
    driver_id VARCHAR(10),  
    regno VARCHAR(20),  
    PRIMARY KEY(driver_id, regno),  
    FOREIGN KEY(driver_id) REFERENCES PERSON(driver_id)  
    ON delete CASCADE ON update CASCADE,  
    FOREIGN KEY(regno) REFERENCES CAR(regno)  
    ON delete CASCADE ON update CASCADE);
```

```
CREATE TABLE PARTICIPATED(  
    driver_id VARCHAR(10),
```

```

regno VARCHAR(20),
report_no INT,
damage_amount INT,
FOREIGN KEY(driver_id,regno) REFERENCES OWNS(driver_id,regno)
ON delete SET NULL ON update CASCADE,
FOREIGN KEY(report_no) REFERENCES ACCIDENT(report_no)
ON delete SET NULL ON update CASCADE
);

INSERT INTO PERSON VALUES('A01','Richard','Srinivas nagar');
INSERT INTO PERSON VALUES('A02','Pradeep','Rajaji nagar');
INSERT INTO PERSON VALUES('A03','Smith','Ashok nagar');
INSERT INTO PERSON VALUES('A04','Venu','N R Colony');
INSERT INTO PERSON VALUES('A05','Jhon','Hanumanth nagar');
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');
INSERT INTO ACCIDENT VALUES(11,'2003-01-01','Mysore Road');
INSERT INTO ACCIDENT VALUES(12,'2004-02-02','South end Circle');
INSERT INTO ACCIDENT VALUES(13,'2003-01-21','Bull temple Road');
INSERT INTO ACCIDENT VALUES(14,'2008-02-17','Mysore Road');
INSERT INTO ACCIDENT VALUES(15,'2005-03-04','Kanakpura Road');
INSERT INTO OWNS VALUES('A01','KA052250');
INSERT INTO OWNS VALUES('A02','KA053408');
INSERT INTO OWNS VALUES('A03','KA031181');INSERT INTO OWNS VALUES('A04','KA095477');
INSERT INTO OWNS VALUES('A05','KA041702');
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 PERSON;
```

```
$sqlite3 database.sdb < main.sql  
A01|Richard|Srinivas nagar  
A02|Pradeep|Rajaji nagar  
A03|Smith|Ashok nagar  
A04|Venu|N R Colony  
A05|Jhon|Hanumanth nagar
```

```
SELECT * FROM CAR;
```

```
$sqlite3 database.sdb < main.sql  
KA052250|Indica|1990  
KA031181|Lancer|1957  
KA095477|Toyota|1998  
KA053408|Honda|2008  
KA041702|Audi|2005
```

```
SELECT * FROM ACCIDENT;
```

```
$sqlite3 database.sdb < main.sql  
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
```

```
SELECT * FROM OWNS;
```

```
$sqlite3 database.sdb < main.sql  
A01|KA052250  
A02|KA053408  
A03|KA031181  
A04|KA095477  
A05|KA041702
```

```
SELECT * FROM PARTICIPATED;
```

```
$sqlite3 database.sdb < main.sql
```

```
A01|KA052250|11|10000  
A02|KA053408|12|50000  
A03|KA095477|13|25000  
A04|KA031181|14|3000  
A05|KA041702|15|5000
```

```
UPDATE PARTICIPATED SET damage_amount=25000 WHERE REPORT_NO =12 AND  
REGNO='KA053408';
```

```
A01|KA052250|11|10000  
A02|KA053408|12|25000  
A03|KA095477|13|25000  
A04|KA031181|14|3000  
A05|KA041702|15|5000  
  
[Program exited with exit code 0]
```

```
INSERT INTO ACCIDENT VALUES(16,'2018-04-08','MYSORE');
```

```
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|2018-04-08|MYSORE  
  
[Program exited with exit code 0]
```

```
SELECT COUNT(*) FROM ACCIDENT WHERE DATE LIKE '2008-__-__';
```

```
1  
  
[Program exited with exit code 0]
```

```
SELECT COUNT(*) FROM CAR WHERE model LIKE 'Indica';
```

1

[Program exited with exit code 0]