```
create database Insurance;
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),
 yeear 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)
);
INSERT INTO PERSON (driver_id, name, address) VALUES
```

```
('A01', 'Richard', 'Srinivas Nagar'),
('A02', 'Pradeep', 'Rajajinagar'),
('A03', 'Smith', 'Ashoknagar'),
('A04', 'Venu', 'N.R.Colony'),
('A05', 'John', 'Hanumanth Nagar');
INSERT INTO CAR (reg num, model, yeear) VALUES
('KA052250', 'Indica', 1990),
('KA031181', 'Lancer', 1957),
('KA095477', 'Toyota', 1998),
('KA053408', 'Honda', 2008),
('KA041702', 'Audi', 2005);
INSERT INTO ACCIDENT (report_num, accident_date, location) VALUES
(11, '2003-01-01', 'Mysore Road'),
(12, '2004-02-02', 'Southend Circle'),
(13, '2003-01-21', 'Bulltemple Road'),
(14, '2008-02-17', 'Mysore Road'),
(15, '2005-03-04', 'Kanakpura Road');
INSERT INTO OWNS (driver_id, reg_num) VALUES
('A01', 'KA052250'),
('A02', 'KA053408'),
('A03', 'KA031181'),
('A04', 'KA095477'),
('A05', 'KA041702');
INSERT INTO PARTICIPATED (driver_id, reg_num, report_num, damage_amount) VALUES
('A01', 'KA052250', 11, 10000),
('A02', 'KA053408', 12, 50000),
('A03', 'KA095477', 13, 25000),
('A04', 'KA031181', 14, 3000),
('A05', 'KA041702', 15, 5000);
-- Show all accidents (date and location)
select accident_date, location from ACCIDENT;
-- Find drivers who caused damage ≥ 25000
```

SELECT PERSON.name

FROM PERSON, PARTICIPATED

WHERE PERSON.driver_id = PARTICIPATED.driver_id

AND PARTICIPATED.damage_amount >= 25000;

-- List each driver with the cars they own (one row per ownership)

SELECT PERSON.name, CAR.reg_num, CAR.model FROM PERSON, OWNS, CAR WHERE PERSON.driver_id = OWNS.driver_id AND OWNS.reg_num = CAR.reg_num;

-- Show accidents and the drivers involved (including damage amount)

SELECT

ACCIDENT.report_num,ACCIDENT.accident_date,ACCIDENT.location,PERSON.name
AS driver_name,PARTICIPATED.damage_amount
FROM ACCIDENT, PARTICIPATED, PERSON
WHERE ACCIDENT.report_num = PARTICIPATED.report_num
AND PARTICIPATED.driver_id = PERSON.driver_id
ORDER BY ACCIDENT.report_num;

-- Total damage per accident report

SELECT report_num,SUM(damage_amount) AS total_damage FROM PARTICIPATED GROUP BY report_num ORDER BY report_num;

-- Drivers who were involved in more than one accident

SELECT PERSON.name
FROM PERSON, PARTICIPATED
WHERE PERSON.driver_id = PARTICIPATED.driver_id
GROUP BY PERSON.driver_id, PERSON.name
HAVING COUNT(DISTINCT PARTICIPATED.report_num) > 1;

-- Cars that never had an accident (owned but not in participated)

SELECT CAR.model
FROM CAR
WHERE CAR.reg_num NOT IN (

```
SELECT DISTINCT reg_num
 FROM PARTICIPATED
);
-- Latest accident (most recent accident_date)
SELECT *
FROM ACCIDENT
ORDER BY accident_date DESC
LIMIT 1;
-- Average damage amount per driver
SELECT PERSON.name, AVG (PARTICIPATED.damage_amount) AS average_damage
FROM PERSON, PARTICIPATED
WHERE PERSON.driver id = PARTICIPATED.driver id
GROUP BY PERSON.driver_id, PERSON.name
ORDER BY average_damage DESC;
-- Update: set damage_amount = 25000 for a specific car & report (example)
UPDATE PARTICIPATED
SET damage_amount = 25000
WHERE reg_num = 'KA052250' AND report_num = 11;
SELECT * FROM PARTICIPATED;
-- Find drivers who caused the maximum damage in any single accident
SELECT PERSON.name, PARTICIPATED.damage_amount, PARTICIPATED.report_num
FROM PERSON, PARTICIPATED
WHERE PERSON.driver_id = PARTICIPATED.driver_id
AND PARTICIPATED.damage_amount = (
 SELECT MAX(damage_amount)
 FROM PARTICIPATED
);
-- Show cars (model) involved in accidents with total damage > 20000
SELECT DISTINCT CAR.model
FROM CAR, PARTICIPATED
WHERE CAR.reg_num = PARTICIPATED.reg_num
AND PARTICIPATED.report_num IN (
 SELECT report num
 FROM PARTICIPATED
```

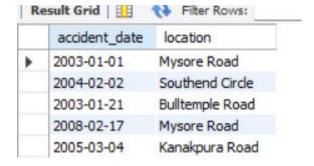
```
GROUP BY report_num

HAVING SUM(damage_amount) > 20000
);
-- Create a view summarizing accidents with participants count and total damage
CREATE VIEW AccidentSummary AS
SELECT

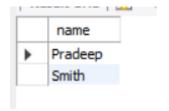
ACCIDENT.report_num,
ACCIDENT.accident_date,
ACCIDENT.location,
COUNT(PARTICIPATED.reg_num) AS participant_count,
SUM(PARTICIPATED.damage_amount) AS total_damage
FROM ACCIDENT, PARTICIPATED
WHERE ACCIDENT.report_num = PARTICIPATED.report_num
GROUP BY ACCIDENT.report_num, ACCIDENT.accident_date, ACCIDENT.location
ORDER BY ACCIDENT.report_num;
```

select * from AccidentSummary;

Show all accidents (date and location)



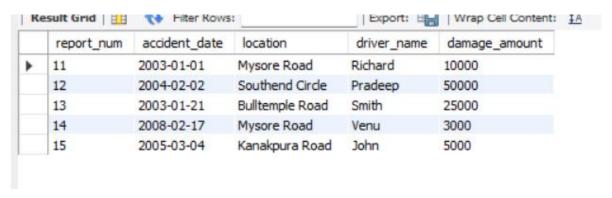
Find drivers who caused damage ≥ 25000



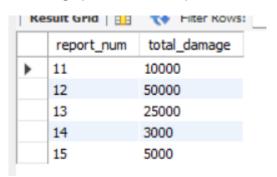
List each driver with the cars they own (one row per ownership)



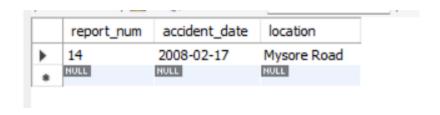
Show accidents and the drivers involved (including damage amount)



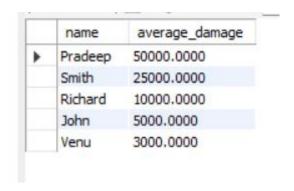
Total damage per accident report



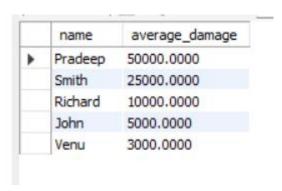
Latest accident (most recent accident_date)



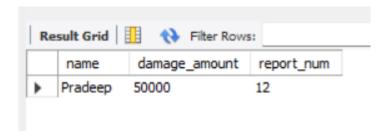
Average damage amount per driver



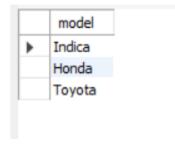
Average damage amount per driver



Find drivers who caused the maximum damage in any single accident



Show cars (model) involved in accidents with total damage > 20000



Create a view summarizing accidents with participants count and total damage

| | report_num | accident_date | location | participant_count | total_damage |
|---|------------|---------------|-----------------|-------------------|--------------|
| ١ | 11 | 2003-01-01 | Mysore Road | 1 | 25000 |
| | 12 | 2004-02-02 | Southend Circle | 1 | 50000 |
| | 13 | 2003-01-21 | Bulltemple Road | 1 | 25000 |
| | 14 | 2008-02-17 | Mysore Road | 1 | 3000 |
| | 15 | 2005-03-04 | Kanakpura Road | 1 | 5000 |