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QUERIES

1. Show all accidents (date and location)

select \* from accident;

2. Find drivers who caused damage ≥ 25000

select driver\_id from participated

where damage\_amount >= 25000;

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

select p.driver\_id, p.name, o.reg\_num, c.model

from person p, owns o, car c

where p.driver\_id = o.driver\_id and c.reg\_num = o.reg\_num;

4. Show accidents and the drivers involved (including damage amount)

select p.driver\_id, p.name, a.location, pa.damage\_amount

from person p, accident a, participated pa

where p.driver\_id = pa.driver\_id and a.report\_num = pa.report\_num;

5. Total damage per accident report

select a.report\_num, p.driver\_id, p.damage\_amount

from accident a, participated p

where a.report\_num = p.report\_num;

6. Drivers who were involved in more than one accident

select p.name, p.driver\_id

from person p, accident a, participated pa

where p.driver\_id = pa.driver\_id and pa.report\_num = a.report\_num

group by p.name, p.driver\_id

having count(pa.report\_num) > 1;

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

select c.reg\_num

from car c

where c.reg\_num not in

(select p.reg\_num

from participated p);

8. Latest accident (most recent accident\_date)

select max(accident\_date) as Latest\_Date

from accident;

9. Average damage amount per driver

select driver\_id, avg(damage\_amount)

from participated

group by driver\_id;

10. Update: set damage\_amount = 25000 for a specific car & report (example)

update participated

set damage\_amount = 25000

where driver\_id = 'A05';

select \* from participated;

11. Find drivers who caused the maximum damage in any single accident

select driver\_id, damage\_amount

from participated

where damage\_amount = (select max(damage\_amount)

from participated);

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

select p.driver\_id, c.model , p.damage\_amount

from participated p, car c

where damage\_amount > 20000 and p.reg\_num = c.reg\_num;

13. Create a view summarizing accidents with participants count and total damage

create view AccSum as

select a.report\_num, a.accident\_date, a.location, count(p.driver\_id) as total\_drivers,

sum(p.damage\_amount) as total\_damage

from accident a, participated p

where a.report\_num = p.report\_num

group by a.report\_num, a.accident\_date, a.location;

SELECT \* FROM AccSum;