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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**

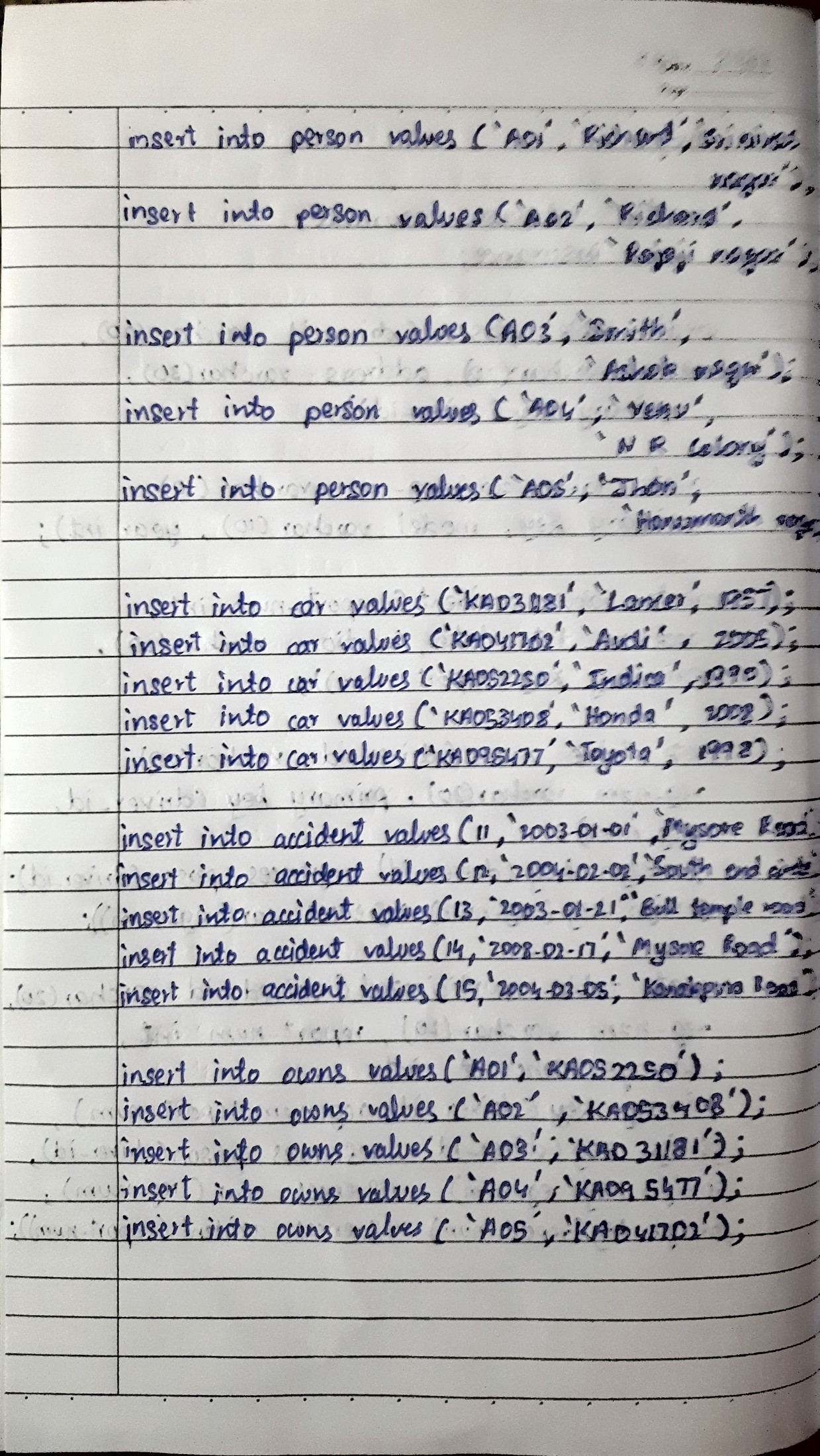
**where a.report\_num = p.report\_num**

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

**SELECT \* FROM AccSum;**

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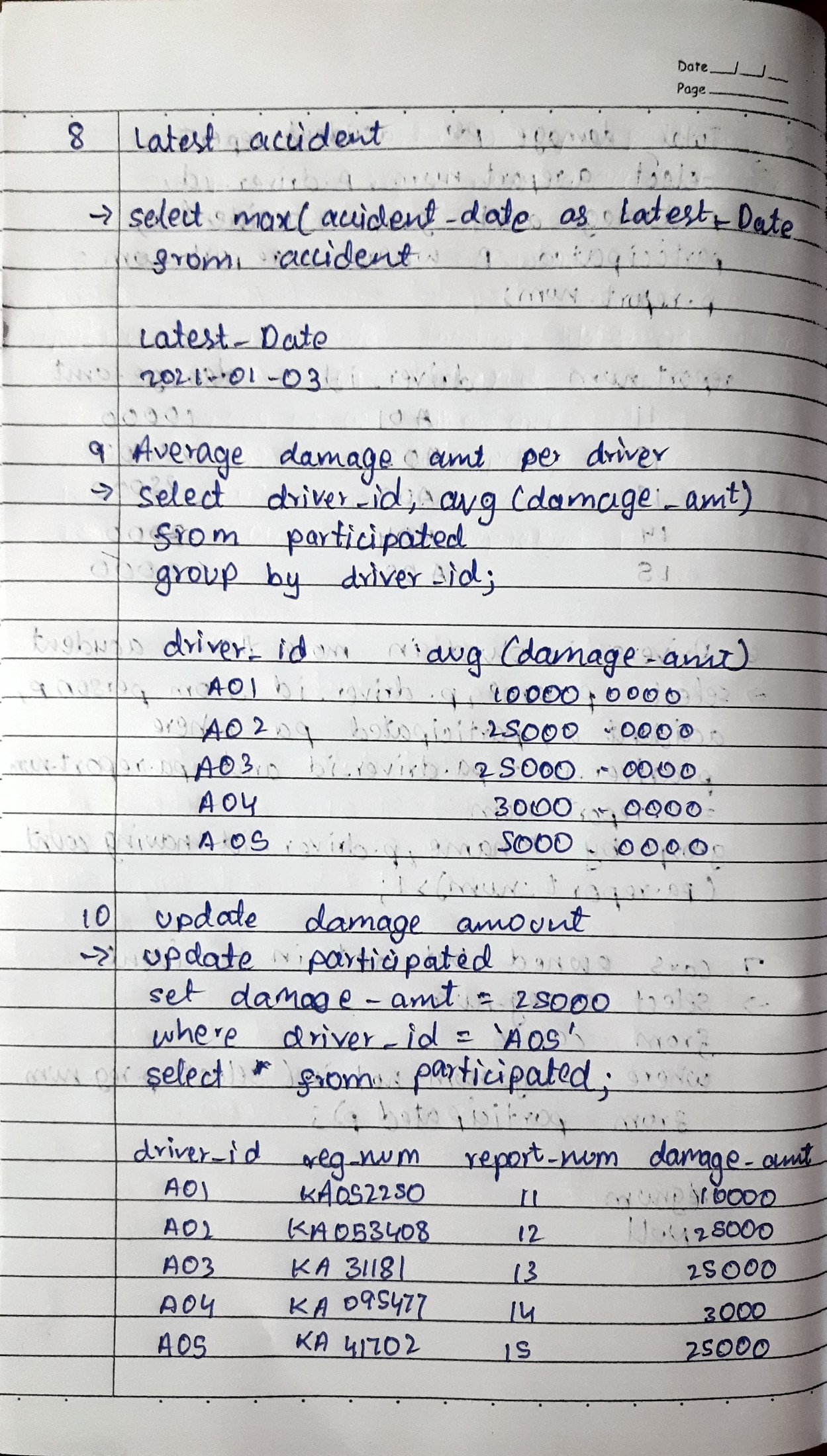
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