

**1. How many of the accidents in California were in rainy weather?**

```
CREATE VIEW incidentsWithStates AS SELECT i.idincidentnum idincidentnum, i.date date,
i.time time, i.reportkey reportkey, i.narrative narrative, c.name county_name, s.name
state_name, w.name = weather_condition FROM incidents i JOIN county c ON
i.county_name = c.name JOIN state s ON c.state_code = s.code JOIN weather_condition w
ON i.weather_condition_id = w.id
SELECT COUNT(*) FROM incidentsWithStates WHERE state_name='CALIFORNIA' &&
weather_condition='Rain' >> 817
```

**2. Where was the accident with the oldest driver and what is the gender of the driver?**

```
1 CREATE VIEW incidentsWithTypes AS
2 SELECT i.idincidentnum idincidentnum,
3 i.reportkey reportkey,
4 t.name,
5 v.value,
6 i.user_gender,
7 c.name county_name,
8 s.name state_name,
9 i.date date,
10 i.time time
11 FROM incidents i
12 JOIN incident2value v on i.reportkey = v.reportkey && i.idincidentnum = v.idincidentnum
13 JOIN incidentTypeName t ON t.id = v.typeid
14 JOIN county c ON i.county_name = c.name
15 JOIN state s ON c.state_code = s.code
```

```
SELECT state_name, user_gender, value FROM incidentsWithTypes WHERE name='user_age'
order by value DESC limit 1 >> ALABAMA , MALE, 99
```

**3. Calculate the average damage cost in accidents by grouping them according to states.**

```
SELECT AVG(value), state_name from incidentsWithTypes where name = 'damage_cost'
GROUP BY state_name
```

**4. When was the last accident in the states with the most accidents?**

```
SELECT idincidentnum, reportkey, state_name, date
from incidentsWithStates where state_name = (SELECT
state_name From incidentsWithStates
GROUP BY state_name
ORDER BY count(idincidentnum) DESC LIMIT 1) ORDER
BY date DESC LIMIT 1
```

**5. Which state had the most accidents after 2007?**

```
SELECT COUNT(*), state_name from incidentsWithStates WHERE YEAR(date) > 2007 ORDER BY
count(*) DESC LIMIT 1
```

**6. Show the total number of deaths in accidents by grouping them by years.**

```
SELECT sum(value), YEAR(date) from incidentsWithTypes where name = "killed" GROUP BY  
year(date) DESC;
```

**7. Show the number of casualties in accidents with the lowest and highest train speed.**

```
CREATE PROCEDURE `LowTrainSpeedKilled`() NOT DETERMINISTIC CONTAINS SQL  
SQL SECURITY DEFINER SELECT value FROM incidentsWithTypes where name = '  
killed' && idincidentnum = (SELECT idincidentnum FROM incidentsWithTypes  
WHERE name = 'train_speed' ORDER BY value ASC LIMIT 1)
```

```
CREATE PROCEDURE `HighestTrainSpeedKilled`() NOT DETERMINISTIC CONTAINS  
SQL SQL SECURITY DEFINER SELECT value FROM incidentsWithTypes where name  
= 'killed' && idincidentnum = (SELECT idincidentnum FROM incidentsWithT  
ypes WHERE name = 'train_speed' ORDER BY value DESC LIMIT 1)
```

**8. What is the report code of the accident with the lowest air temperature?**

```
SELECT reportkey FROM incidentsWithTypes WHERE name='temperature' ORDER BY value ASC  
LIMIT 1
```

**9. In which visibility situation did the accident occur the most between 2015-2020?**

```
SELECT visibility.name, count(*) as total FROM incidents join visibil  
ity WHERE YEAR(incidents.date) BETWEEN 2015 AND 2020 group by visibil  
ity.name order by total DESC limit 1
```

**10. What is the information of the first five accidents of the railway company with the most accidents?**

```
SELECT * FROM incidentsWithRailRoad WHERE railroad_code = (SELECT railroad_code FROM  
incidentsWithRailRoad GROUP BY railroad_code ORDER BY count(*) DESC LIMIT 1) ORDER BY  
date DESC LIMIT 5
```