1. Between 1970 and 2022, which years had the highest shooting incidents?

```sql
SELECT
  incident_table.Year AS year,
  COUNT (*) AS incident_count
FROM
  my-data-project-401909.School_Shootings.incident_table
LEFT JOIN
  my-data-project-401909.School_Shootings.shooter_table ON
  incident_table.incident_id=shooter_table.incidentid
GROUP BY
  year
ORDER BY
  incident_count DESC
LIMIT 5;
```

2. What weapon types account for the most fatalities?

```sql
SELECT
  weapon_table.weapontype AS weapons,
  COUNT (victim_table.injury) AS fatality_count,
  FROM
  my-data-project-401909.School_Shootings.victim_table
LEFT JOIN
  my-data-project-401909.School_Shootings.weapon_table ON
  victim_table.Incident_Id = weapon_table.incidentid
WHERE
  victim_table.injury = 'Fatal' AND weapon_table.weapontype IS NOT NULL
  AND LOWER(weapon_table.weapontype) NOT IN ('unknown', 'unknown')
GROUP BY
  weapons
ORDER BY
  fatality_count DESC
LIMIT 7;
```

3. How does shooters race compare to victim's race for the different states with the highest incident counts?

```sql
SELECT
  incident_table.State AS state,
  COUNT (*) AS incident_count,
  shooter_table.race AS shooters_race,
  victim_table.race AS victims_race
FROM
  my-data-project-401909.School_Shootings.shooter_table
LEFT JOIN
  my-data-project-401909.School_Shootings.victim_table ON
  shooter_table.incidentid = victim_table.incident_id
LEFT JOIN
  my-data-project-401909.School_Shootings.incident_table ON
  shooter_table.incidentid = incident_table.Incident_Id
```

```
WHERE
 victim_table.race <> 'unknown'AND shooter_table.race <> 'unknown'
GROUP BY
 state,shooters_race,victims_race
ORDER BY
 incident_count DESC
LIMIT 10
```

4. Which race is responsible for the most shootings and what is that attributed to?

```
SELECT
 shooter_table.race AS shooter_race,
 COUNT (*) AS incident_count,
 COUNTIF(SAFE_CAST(incident_table.Bullied AS INT64) = 1) AS Bullied_yes,
  COUNTIF(SAFE_CAST(incident_table.Domestic_Violence AS INT64) = 1) AS
Domestic_Violence_yes,
  COUNTIF(SAFE_CAST(incident_table.Gang_Related AS INT64) = 1) AS Gang_Related_yes,
  COUNTIF(SAFE_CAST(incident_table.Preplanned AS INT64) = 1) AS Preplanned_yes
FROM
 my-data-project-401909.School_Shootings.incident_table
LEFT JOIN
 my-data-project-401909.School_Shootings.shooter_table ON
 incident_table.Incident_Id=shooter_table.incidentid
WHERE
 shooter_table.race IS NOT NULL AND shooter_table.race <> 'unknown'
 AND incident_table.Gang_Related <>'unknown'
 AND incident_table.Domestic_Violence <> 'unknown'
 AND incident_table.Bullied <> 'unknown'
 AND incident_table.Preplanned <> 'unknown'
 AND incident_table.Bullied <> 'N/A'
GROUP BY
 shooter_table.race
ORDER BY
 incident_count DESC
LIMIT 5
```

5. What is the average shooting fatality and which schools have above average fatalities?

```
WITH TopSchools AS (
    SELECT
    incident_table.school AS school,
    COUNT (victim_table.injury) AS Fatality_count,
    FROM
    my-data-project-401909.School_Shootings.incident_table
    LEFT JOIN
    my-data-project-401909.School_Shootings.victim_table ON
```

```
        incident_table.Incident_Id=victim_table.Incident_Id
        WHERE victim_table.injury='Fatal'
        GROUP BY School
        ORDER BY Fatality_count DESC
        LIMIT 5
),

Average_Fatality AS (
SELECT
  AVG(fatality_count) AS avg_fatality
FROM
  TopSchools
 )

SELECT
  TopSchools.school,
  TopSchools.Fatality_count,
  Average_Fatality.avg_fatality
FROM
  TopSchools
JOIN
  Average_Fatality
ON
  1=1
WHERE
  TopSchools.Fatality_count > Average_Fatality.avg_fatality;
```

6. For the different cities, how many incidents were committed by shooters with a criminal history vis a vis those without?

```
SELECT
 incident_table.City AS City,
 COUNT (incident_table.Incident_Id) AS Incident_count,
 shooter_table.criminalhistory
FROM
 my-data-project-401909.School_Shootings.incident_table
LEFT JOIN
 my-data-project-401909.School_Shootings.shooter_table ON
 incident_table.Incident_Id = shooter_table.incidentid
WHERE
 shooter_table.criminalhistory IN ('Yes','No')
GROUP BY City, criminalhistory
ORDER BY
 Incident_count DESC
LIMIT 15
```