```sql
USE crashes;

SELECT * FROM crashes;

DESCRIBE crashes;

SET sql_safe_updates = 0;

UPDATE crashes
SET crash_date = CASE
    WHEN crash_date REGEXP '^[0-9]{1,2}/[0-9]{1,2}/[0-9]{4} [0-9]{1,2}:[0-9]{1,2}$'
THEN DATE_FORMAT(STR_TO_DATE(crash_date, '%m/%d/%Y %H:%i'), '%Y-%m-%d')
    WHEN crash_date REGEXP '^[0-9]{1,2}-[0-9]{1,2}-[0-9]{4} [0-9]{1,2}:[0-9]{1,2}$'
THEN DATE_FORMAT(STR_TO_DATE(crash_date, '%m-%d-%Y %H:%i'), '%Y-%m-%d')
    ELSE DATE_FORMAT(STR_TO_DATE(crash_date, '%Y-%m-%d'), '%Y-%m-%d')
END;




ALTER TABLE crashes
MODIFY COLUMN crash_date DATE;




UPDATE crashes
SET date_police_notified = CASE
    WHEN date_police_notified REGEXP '^[0-9]{1,2}/[0-9]{1,2}/[0-9]{4}
[0-9]{1,2}:[0-9]{1,2}$' THEN DATE_FORMAT(STR_TO_DATE(date_police_notified,
'%m/%d/%Y %H:%i'), '%Y-%m-%d')
    WHEN date_police_notified REGEXP '^[0-9]{1,2}-[0-9]{1,2}-[0-9]{4}
[0-9]{1,2}:[0-9]{1,2}$' THEN DATE_FORMAT(STR_TO_DATE(date_police_notified,
'%m-%d-%Y %H:%i'), '%Y-%m-%d')
    ELSE DATE_FORMAT(STR_TO_DATE(date_police_notified, '%Y-%m-%d'), '%Y-%m-%d')
END;




ALTER TABLE crashes
MODIFY COLUMN date_police_notified DATE;


-- what are the total counts of recorded crashes in the dataset?

SELECT COUNT(*) As total_count
FROM crashes;

-- what is the earlist and latest date of recorded crashes?

SELECT MIN(crash_date) AS min, MAX(crash_date) AS max
```

```sql
FROM crashes;


-- What is the number of crashes reported per year?

SELECT YEAR(crash_date), COUNT(*)
FROM crashes
GROUP BY YEAR(crash_date)
ORDER BY YEAR(crash_date)

--

SELECT
    MONTHNAME(crash_date) AS crash_month,
    SUM(YEAR(crash_date) = 2017) AS count_2017,
    SUM(YEAR(crash_date) = 2018) AS count_2018,
    (SUM(YEAR(crash_date) = 2018) - SUM(YEAR(crash_date) = 2017)) AS count_diff,
    CASE
        WHEN SUM(YEAR(crash_date) = 2017) > 0 THEN
            ((SUM(YEAR(crash_date) = 2018) - SUM(YEAR(crash_date) = 2017)) /
SUM(YEAR(crash_date) = 2017)) * 100
        ELSE 0
    END AS percent_change
FROM
    crashes
WHERE
    YEAR(crash_date) IN (2017, 2018)
GROUP BY
    MONTHNAME(crash_date)
ORDER BY
    MONTHNAME(crash_date);


--
DROP TABLE IF EXISTS crash_new;
CREATE TABLE crash_new AS
(
        SELECT *
        FROM crashes
        WHERE YEAR(crash_date) BETWEEN '2018' AND '2022'
);

SELECT * FROM crash_new


SELECT COUNT(*) As total_count
FROM crash_new;

SELECT MIN(crash_date) AS min, MAX(crash_date) AS max
FROM crash_new;
```

```sql
TABLE crash_new
INTO OUTFILE "C:/ProgramData/MySQL1/MySQL Server 8.0/Uploads/crash_new.csv"
FIELDS TERMINATED BY ','
OPTIONALLY ENCLOSED BY '"'
ESCAPED BY ''
LINES terminated by '\n'


SELECT 'crash_id', 'crash_date',
'posted_speed_limit','traffic_control_device','device_condition','weather_condition
','lighting_condition','first_crash_type','traffic_way_type','lane_count','alignmen
t','roadway_surface_condition',

'road_defect','report_type','crash_type','hit_and_run','damage','date_police_notifi
ed'
,'primary_cause','secondary_cause','street_direction','street_name','statement_take
n','work_zone','work_zone_type','workers_present','number_unit',

'most_severe_injury','injuries_total','injuries_fatal','injuries_incapacitated','in
juries_non_incapacitated','injuries_reported_not_evident','crash_hour','crash_day_o
f_week','crash_month'
UNION ALL
SELECT *
INTO OUTFILE "C:/ProgramData/MySQL1/MySQL Server 8.0/Uploads/crash_new2.csv"
FIELDS TERMINATED BY ','
OPTIONALLY ENCLOSED BY '"'
ESCAPED BY ''
LINES TERMINATED BY '\n'
FROM crash_new;
```