Data Cleaning Project Using SQL

This dataset contained historical sales data, including details such as car features and prices. I inspected the data to make sure it was clean, free from null values, errors, and inconsistencies. I also ran a few queries to make sure the dataset matched the description in the schema.

1.) The fuel type column should only have 2 unique string values so I ran this guery.. **SELECT** DISTINCT fuel_type **FROM** cars.car_info; 2.) Then I inspected the max and min column length to make sure it matched the dataset description.. **SELECT** MIN(length) AS min_length, MAX(length) AS max_length FROM cars.car_info; I checked for missing or null values in the num_of_doors column and updated them. **SELECT** * **FROM** cars.car_info WHFRF num_of_doors IS NULL; **UPDATE** cars.car_info SET num_of_doors = "four" WHERE make = "dodge" AND fuel_type = "gas" AND body_style = "sedan"; **SELECT FROM**

cars.car_info

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WHERE
  num_of_doors IS NULL;
   4.) I then checked for potential errors and misspelled rows in the dataset and corrected them..
SELECT
  DISTINCT num_of_cylinders
FROM
  cars.car_info;
UPDATE
  cars.car_info
  num_of_cylinders = "two"
WHERE
  num_of_cylinders = "tow";
SELECT
  DISTINCT num_of_cylinders
FROM
  cars.car_info;
SELECT
  MIN(compression_ratio) AS min_compression_ratio,
  MAX(compression_ratio) AS max_compression_ratio
FROM
  cars.car_info;
SELECT
  MIN(compression_ratio) AS min_compression_ratio,
  MAX(compression_ratio) AS max_compression_ratio
FROM
  cars.car_info
WHERE
  compression_ratio <> 70;
SELECT
   COUNT(*) AS num_of_rows_to_delete
FROM
   cars.car_info
WHERE
   compression_ratio = 70;
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DELETE cars.car_info
WHERE compression_ratio = 70;
   5.) I also checked the drive_wheels column for inconsistent data and fixed those as well.
SELECT
  DISTINCT drive_wheels
FROM
  cars.car_info;
SELECT
  DISTINCT drive_wheels,
  LENGTH(drive_wheels) AS string_length
FROM
  cars.car_info;
UPDATE
  cars.car_info
SET
  drive_wheels = TRIM(drive_wheels)
WHERE TRUE;
SELECT
  DISTINCT drive_wheels
```

FROM

cars.car_info;