

Query results			
SAVE RESULTS EXPLORE DATA			
<	JOB INFORMATION	RESULTS	CHART
Row	min_length	max_length	
1	141.1	208.1	

Now, let's check for missing data. For example, I will check to see if the num_of_doors column contains null values using this query:

Untitled

RUN

Query completed.

```
1 SELECT
2 *
3 FROM `mythic-lead-404523.auto_mobile_data.Automobile_data`
4 WHERE
5   num_of_doors IS NULL;
6
```

Press Option+F1 for Accessibility Options.

Query results

SAVE RESULTS

EXPLORE DATA

<

JOB INFORMATION

RESULTS

CHART

JSON

EXECUTION DETAILS

>

Row	make	fuel_type	num_of_doors
1	dodge	gas	null
2	mazda	diesel	null

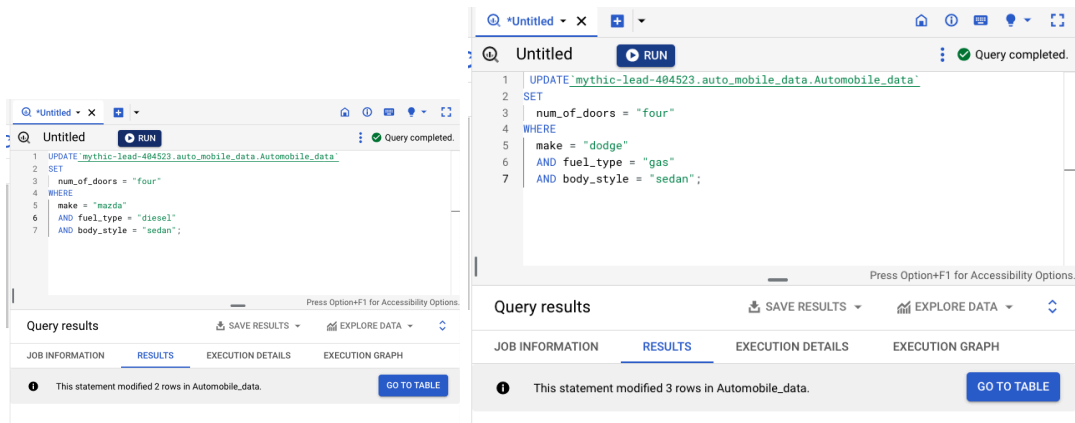
Now let's fill in those missing values:

```

UPDATE `mythic-lead-404523.auto_mobile_data.Automobile_data`
SET
  num_of_doors = "four"
WHERE
  make = "dodge"
AND fuel_type = "gas"

```

```
AND body_style = "sedan";
```



Now, let's run the previous Query again to make sure this was really updated:

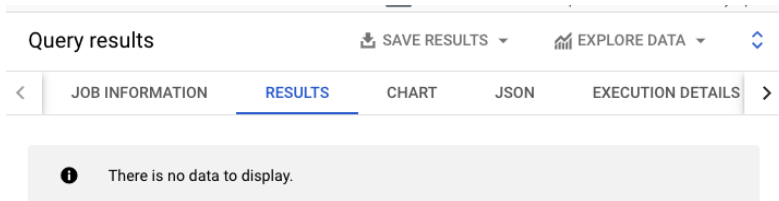
```
SELECT
```

```
*
```

```
FROM `mythic-lead-404523.auto_mobile_data.Automobile_data`
```

```
WHERE
```

```
num_of_doors IS NULL;
```



Sweet! Now let's check for potential errors:

```
SELECT
```

```
DISTINCT num_of_cylinders
```

```
FROM `mythic-lead-404523.auto_mobile_data.Automobile_data`
```

****There are two entries for two cylinders: rows 6 and 7. But the *two* in row 7 is misspelled. ****

Untitled ▶ RUN

```

1 SELECT
2   DISTINCT num_of_cylinders
3 FROM `mythic-lead-404523.auto_mobile_data.Automobile_data`
4

```

Press Option+F1 for Accessibility Options.

Query results 📄 SAVE RESULTS 📊 EXPLORE DATA

< JOB INFORMATION RESULTS CHART JSON EXECUTION DETAILS >

Row	num_of_cylinders
1	six
2	eight
3	three
4	two
5	tow
6	twelve
7	four
8	five

Let's fix that error:

Untitled ▶ RUN ✔ Query completed.

```

1 UPDATE `mythic-lead-404523.auto_mobile_data.Automobile_data`
2 SET
3   num_of_cylinders = "two"
4 WHERE
5   num_of_cylinders = "tow";
6
7

```

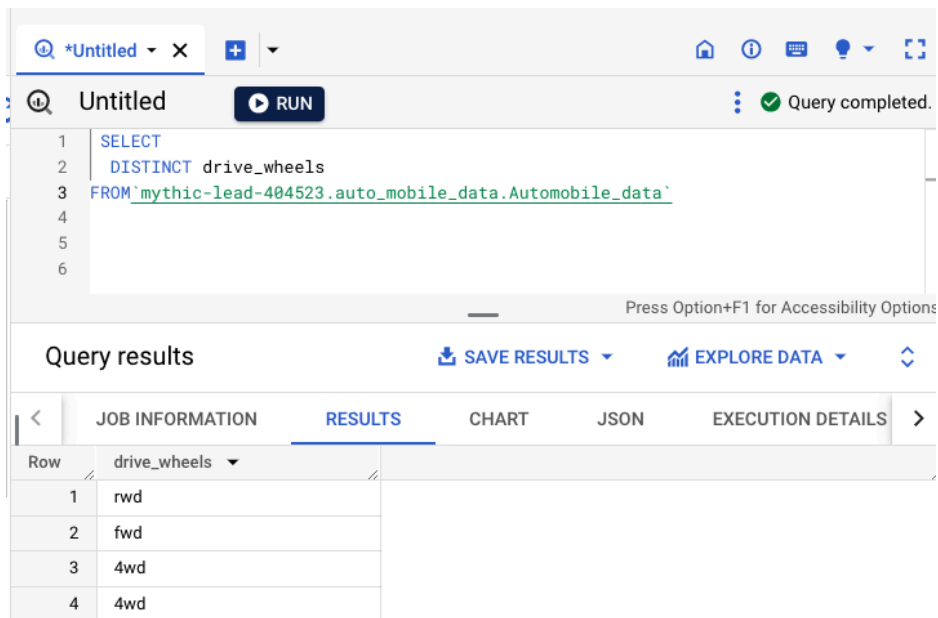
Press Option+F1 for Accessibility Options.

Query results 📄 SAVE RESULTS 📊 EXPLORE DATA

JOB INFORMATION RESULTS EXECUTION DETAILS EXECUTION GRAPH

❗ This statement modified 1 row in Automobile_data. GO TO TABLE

Finally, let's check our data for inconsistencies:



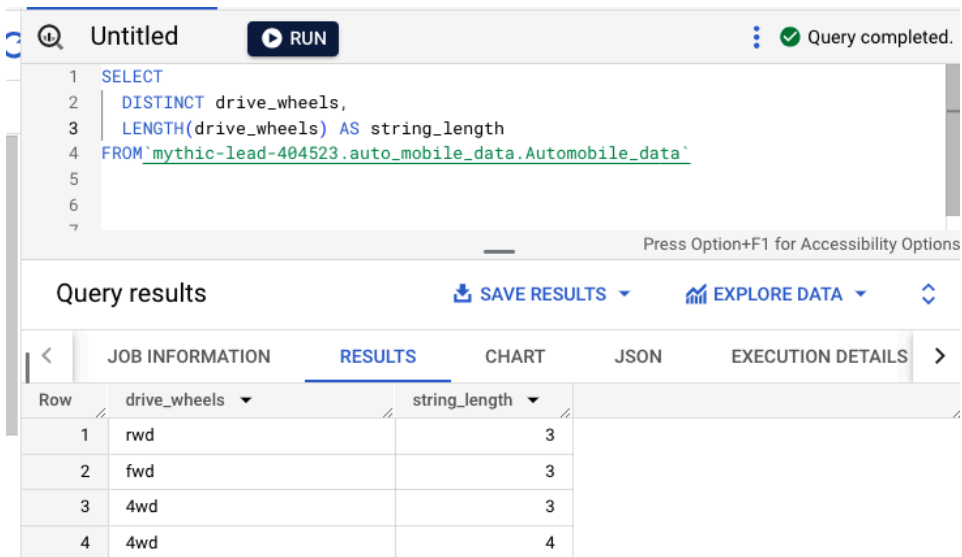
The screenshot shows a SQL query editor with the following query:

```
1 SELECT
2   DISTINCT drive_wheels
3 FROM `mythic-lead-404523.auto_mobile_data.Automobile_data`
4
5
6
```

The query is executed, and the results are displayed in a table with 4 rows:

Row	drive_wheels
1	rwd
2	fwd
3	4wd
4	4wd

It appears that 4wd appears twice in results. However, because I used a SELECT DISTINCT statement to return unique values, this probably means there's an extra space in one of the 4wd entries that makes it different from the other 4wd. Let's check:



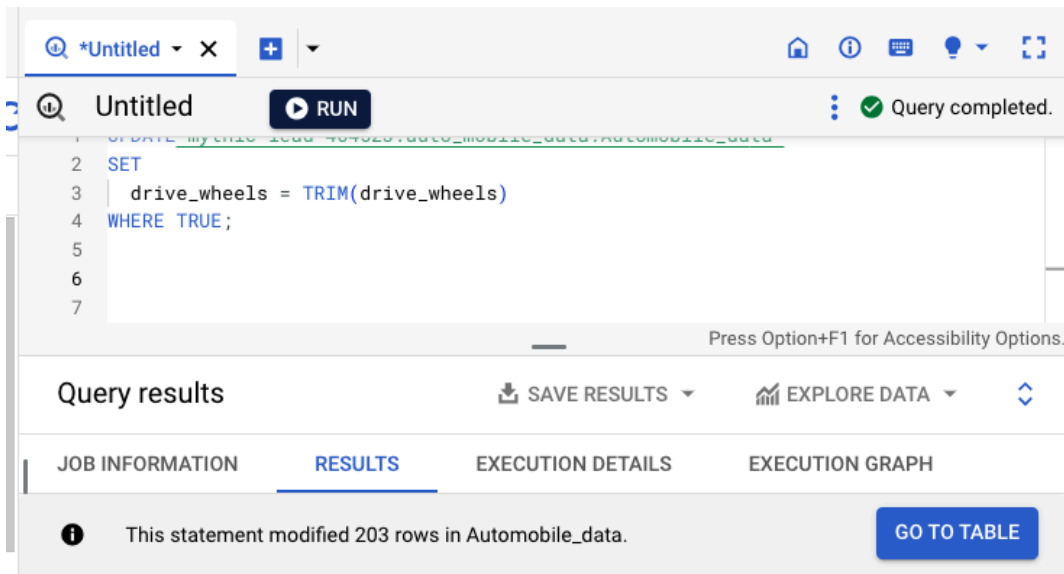
The screenshot shows a SQL query editor with the following query:

```
1 SELECT
2   DISTINCT drive_wheels,
3   LENGTH(drive_wheels) AS string_length
4 FROM `mythic-lead-404523.auto_mobile_data.Automobile_data`
5
6
7
```

The query is executed, and the results are displayed in a table with 4 rows:

Row	drive_wheels	string_length
1	rwd	3
2	fwd	3
3	4wd	3
4	4wd	4

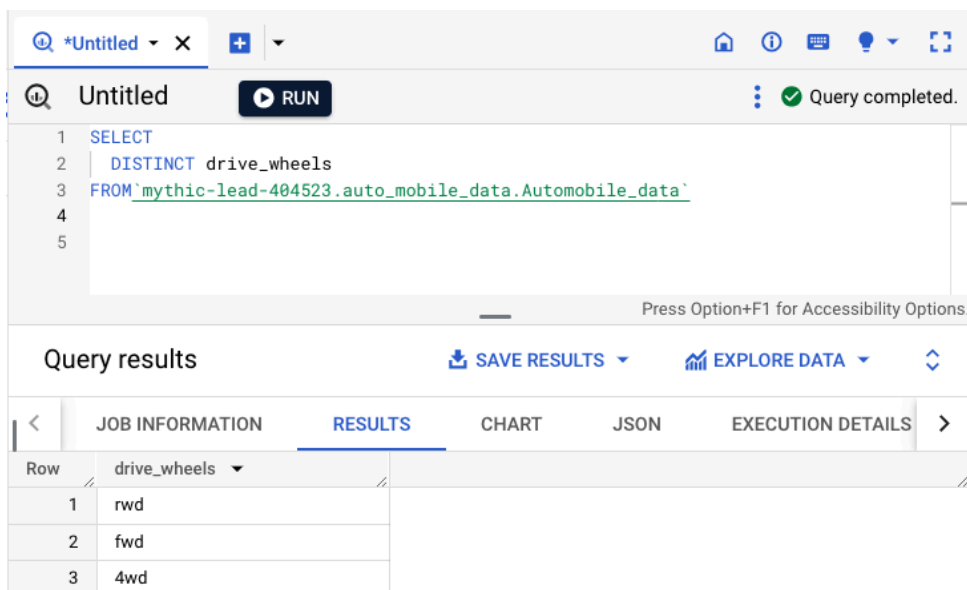
According to these results, some instances of the 4wd string have four characters instead of the expected three (4wd has 3 characters). Let's fix it:



The screenshot shows a SQL editor window titled "Untitled" with a "RUN" button. The SQL query is:

```
1 UPDATE mythic-lead-404523.auto_mobile_data.Automobile_data
2 SET
3   drive_wheels = TRIM(drive_wheels)
4 WHERE TRUE;
```

The query has completed successfully. Below the editor, the "Query results" section shows a message: "This statement modified 203 rows in Automobile_data." and a "GO TO TABLE" button.



The screenshot shows a SQL editor window titled "Untitled" with a "RUN" button. The SQL query is:

```
1 SELECT
2   DISTINCT drive_wheels
3 FROM `mythic-lead-404523.auto_mobile_data.Automobile_data`
4
5
```

The query has completed successfully. Below the editor, the "Query results" section shows a table with 3 rows and 1 column:

Row	drive_wheels
1	rwd
2	fwd
3	4wd

And now there are only be three unique values in this column! This means the data is clean, consistent, and ready for analysis! :)