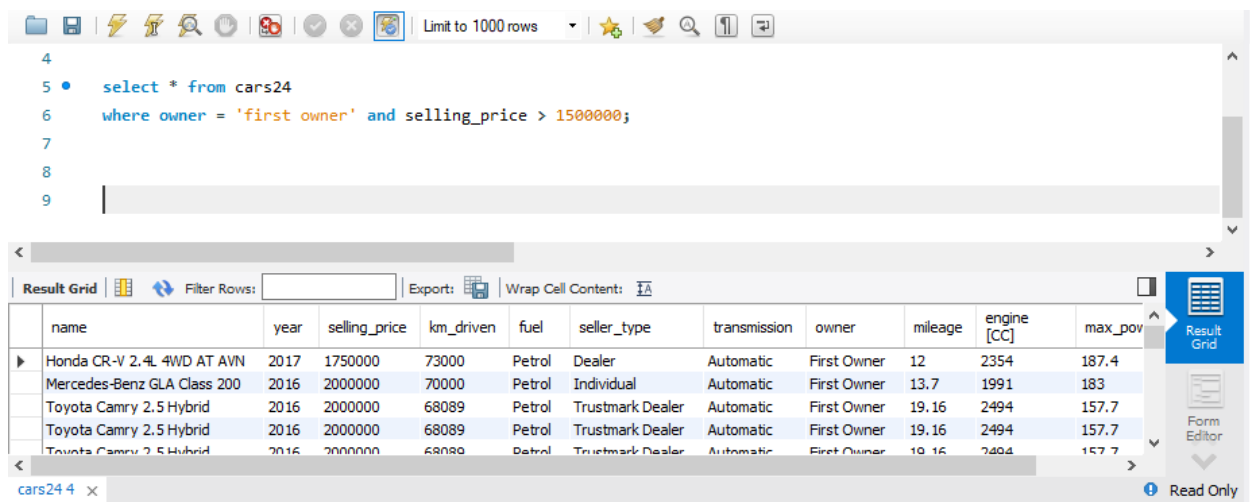


SQL MINI PROJECT L1

Q1:- Print all columns from cars24 table where owner is first owner and selling price greater than 1500000.

```
select * from cars24
```

```
where owner = 'first owner' and selling_price > 1500000
```



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

```
select * from cars24
where owner = 'first owner' and selling_price > 1500000;
```

The result grid displays the following data:

	name	year	selling_price	km_driven	fuel	seller_type	transmission	owner	mileage	engine [CC]	max_pov
▶	Honda CR-V 2.4L 4WD AT AVN	2017	1750000	73000	Petrol	Dealer	Automatic	First Owner	12	2354	187.4
	Mercedes-Benz GLA Class 200	2016	2000000	70000	Petrol	Individual	Automatic	First Owner	13.7	1991	183
	Toyota Camry 2.5 Hybrid	2016	2000000	68089	Petrol	Trustmark Dealer	Automatic	First Owner	19.16	2494	157.7
	Toyota Camry 2.5 Hybrid	2016	2000000	68089	Petrol	Trustmark Dealer	Automatic	First Owner	19.16	2494	157.7
	Toyota Camry 2.5 Hybrid	2016	2000000	68089	Petrol	Trustmark Dealer	Automatic	First Owner	19.16	2494	157.7

Q2:- How many cars are there in the table for each seller type, and what are the different seller types?

```
select case
```

```
when seller_type = 'individual' then 'individual'
```

```
when seller_type = 'Dealer' then 'Dealer'
```

```
else 'trustmark Dealer' end as seller_type, count(*) as cnt from cars24
```

```
group by seller_type;
```

7

8 • `select case`

9 `when seller_type = 'individual' then 'individual'`

10 `when seller_type = 'Dealer' then 'Dealer'`

11 `else 'trusmark Dealer' end as seller_type, count(*) as cnt from cars24`

12 `group by seller_type;`

13

Result Grid

seller_type	cnt
individual	6766
Dealer	1126
trusmark Dealer	236

Result 10 x Read Only

Q3:- How many cars have a low, medium, or high selling price according to the given criteria?

`select case`

`WHEN selling_price < '55000' THEN 'Low price'`

`WHEN selling_price between '55000' and '1000000' then 'Medium Price'`

`WHEN selling_price > '1000000' then 'Highest price'`

`Else 'check price' END as prices, count(*) as cnt from cars24 group by prices;`

13

14 • `select case`

15 `WHEN selling_price < '55000' THEN 'Low price'`

16 `WHEN selling_price between '55000' and '1000000' then 'Medium Price'`

17 `WHEN selling_price > '1000000' then 'Highest price'`

18 `Else 'check price' END as prices, count(*) as cnt from cars24 group by prices;`

19

Result Grid

prices	cnt
Medium Price	7233
Low price	74
Highest price	821

Result 17 x Read Only

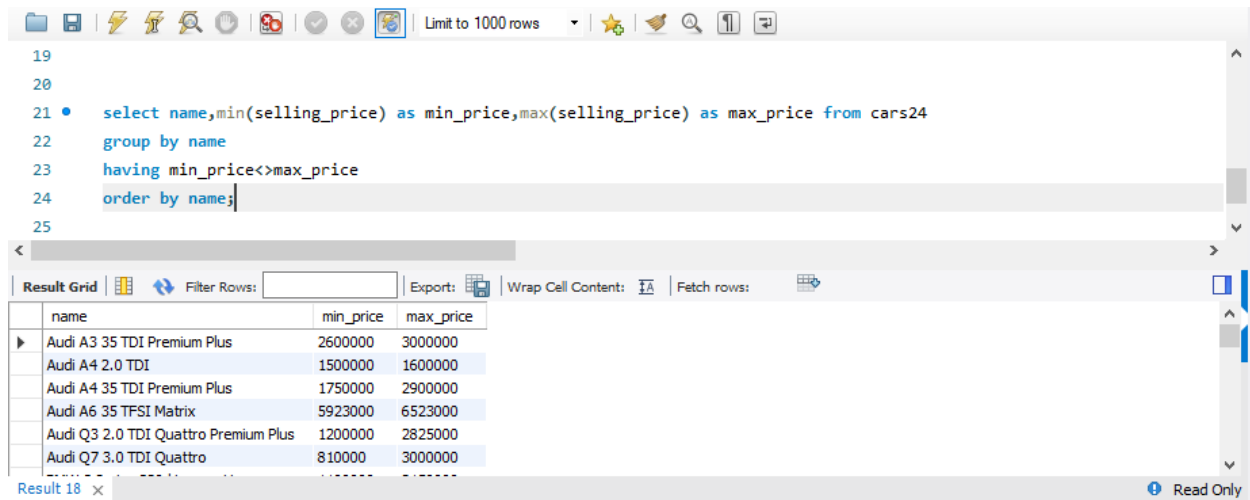
Q4:- Which car models have different selling prices and what are the lowest and highest prices for each model?

```
select name,min(selling_price) as min_price,max(selling_price) as max_price from cars24
```

```
group by name
```

```
having min_price<>max_price
```

```
order by name;
```



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

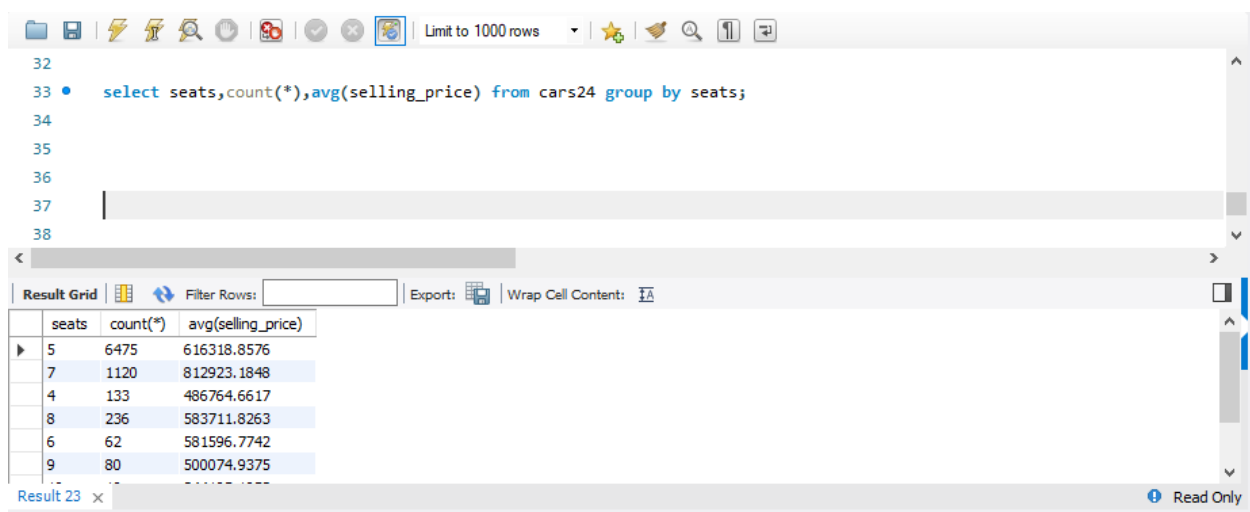
```
select name,min(selling_price) as min_price,max(selling_price) as max_price from cars24
group by name
having min_price<>max_price
order by name;
```

The results are displayed in a table grid with the following data:

name	min_price	max_price
Audi A3 35 TDI Premium Plus	2600000	3000000
Audi A4 2.0 TDI	1500000	1600000
Audi A4 35 TDI Premium Plus	1750000	2900000
Audi A6 35 TFSI Matrix	5923000	6523000
Audi Q3 2.0 TDI Quattro Premium Plus	1200000	2825000
Audi Q7 3.0 TDI Quattro	810000	3000000

Q5:- How many cars are there in each seat category and what is their average selling price?

```
select seats,count(*),avg(selling_price) from cars24 group by seats;
```



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

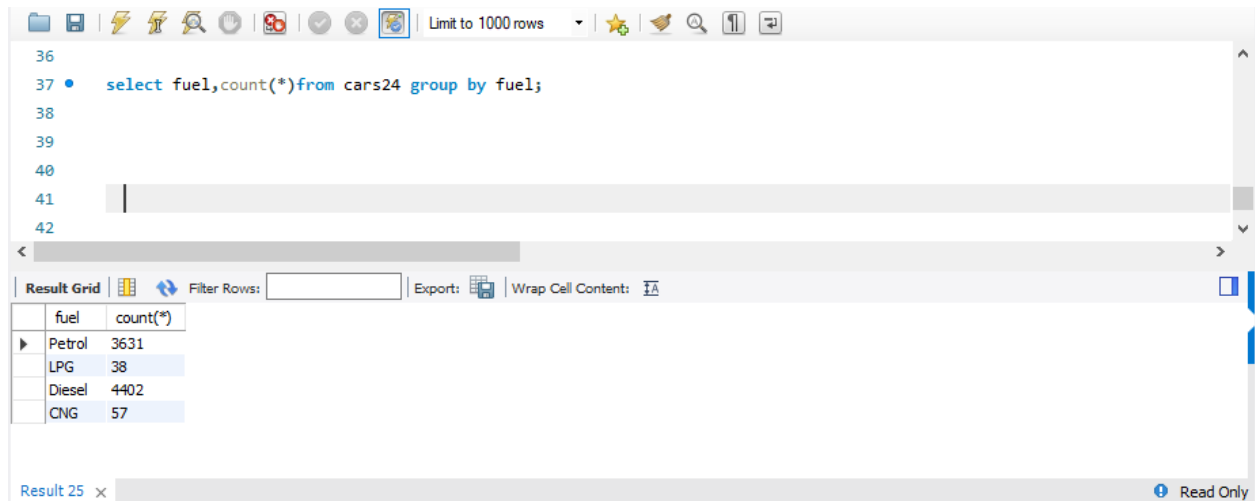
```
select seats,count(*),avg(selling_price) from cars24 group by seats;
```

The results are displayed in a table grid with the following data:

seats	count(*)	avg(selling_price)
5	6475	616318.8576
7	1120	812923.1848
4	133	486764.6617
8	236	583711.8263
6	62	581596.7742
9	80	500074.9375

Q6:- How many cars are there in each fuel category?

```
select fuel,count(*)from cars24 group by fuel;
```



The screenshot shows a database query editor with a toolbar at the top. The query entered is `select fuel,count(*)from cars24 group by fuel;`. Below the query editor, a 'Result Grid' is displayed with the following data:

fuel	count(*)
Petrol	3631
LPG	38
Diesel	4402
CNG	57

The interface includes a 'Filter Rows' field, an 'Export' button, and a 'Wrap Cell Content' checkbox. The status bar at the bottom indicates 'Result 25' and 'Read Only'.

Q7:- How many cars of each brand are there in the cars24 table according to the given criteria?

```
select case
```

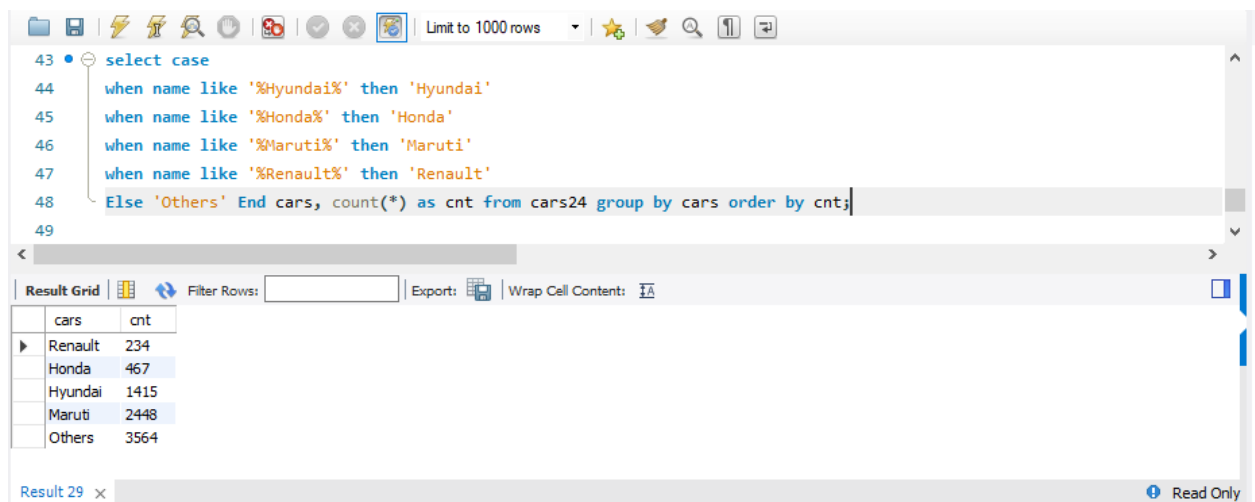
```
when name like '%Hyundai%' then 'Hyundai'
```

```
when name like '%Honda%' then 'Honda'
```

```
when name like '%Maruti%' then 'Maruti'
```

```
when name like '%Renault%' then 'Renault'
```

```
Else 'Others' End cars, count(*) as cnt from cars24 group by cars order by cnt;
```



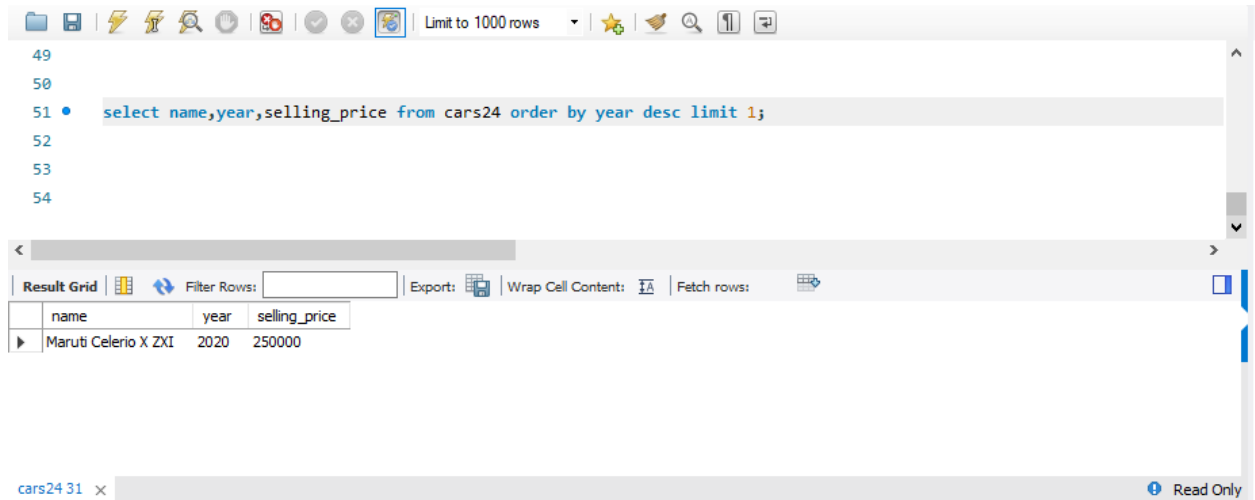
The screenshot shows a database query editor with a toolbar at the top. The query entered is `select case when name like '%Hyundai%' then 'Hyundai' when name like '%Honda%' then 'Honda' when name like '%Maruti%' then 'Maruti' when name like '%Renault%' then 'Renault' Else 'Others' End cars, count(*) as cnt from cars24 group by cars order by cnt;`. Below the query editor, a 'Result Grid' is displayed with the following data:

cars	cnt
Renault	234
Honda	467
Hyundai	1415
Maruti	2448
Others	3564

The interface includes a 'Filter Rows' field, an 'Export' button, and a 'Wrap Cell Content' checkbox. The status bar at the bottom indicates 'Result 29' and 'Read Only'.

Q8:- What is the name, year, and selling price of the newest car in the cars24 table?

select name,year,selling_price from cars24 order by year desc limit 1;



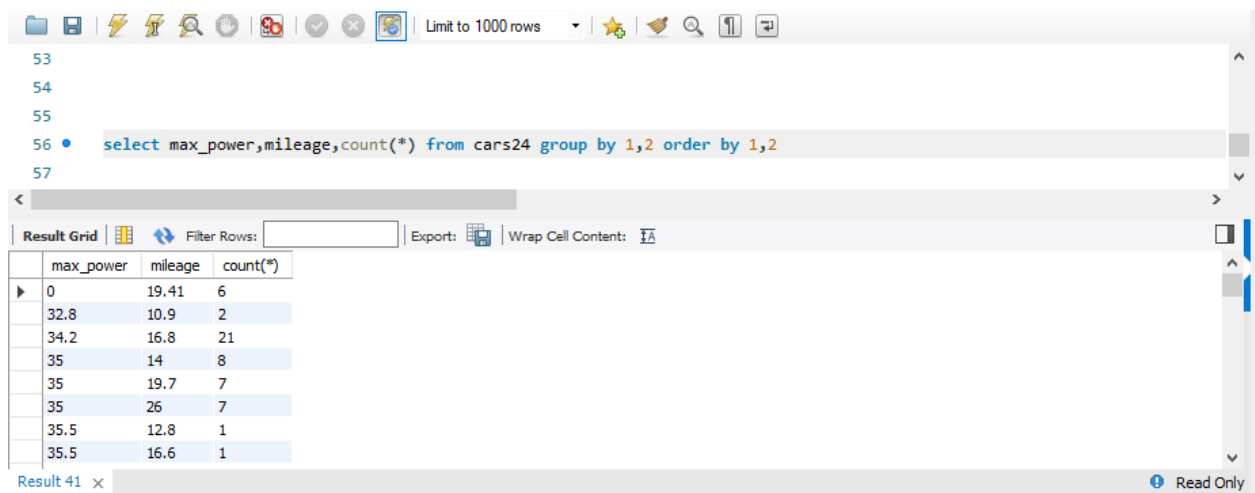
The screenshot shows a SQL query editor with a toolbar at the top. The query entered is `select name,year,selling_price from cars24 order by year desc limit 1;`. Below the query editor, a "Result Grid" is displayed with the following data:

name	year	selling_price
Maruti Celerio X ZXI	2020	250000

The bottom of the window shows a tab labeled "cars24 31" and a "Read Only" status.

Q9:- How many cars have the same maximum power and mileage and what are those values?

select max_power,mileage,count(*) from cars24 group by 1,2 order by 1,2



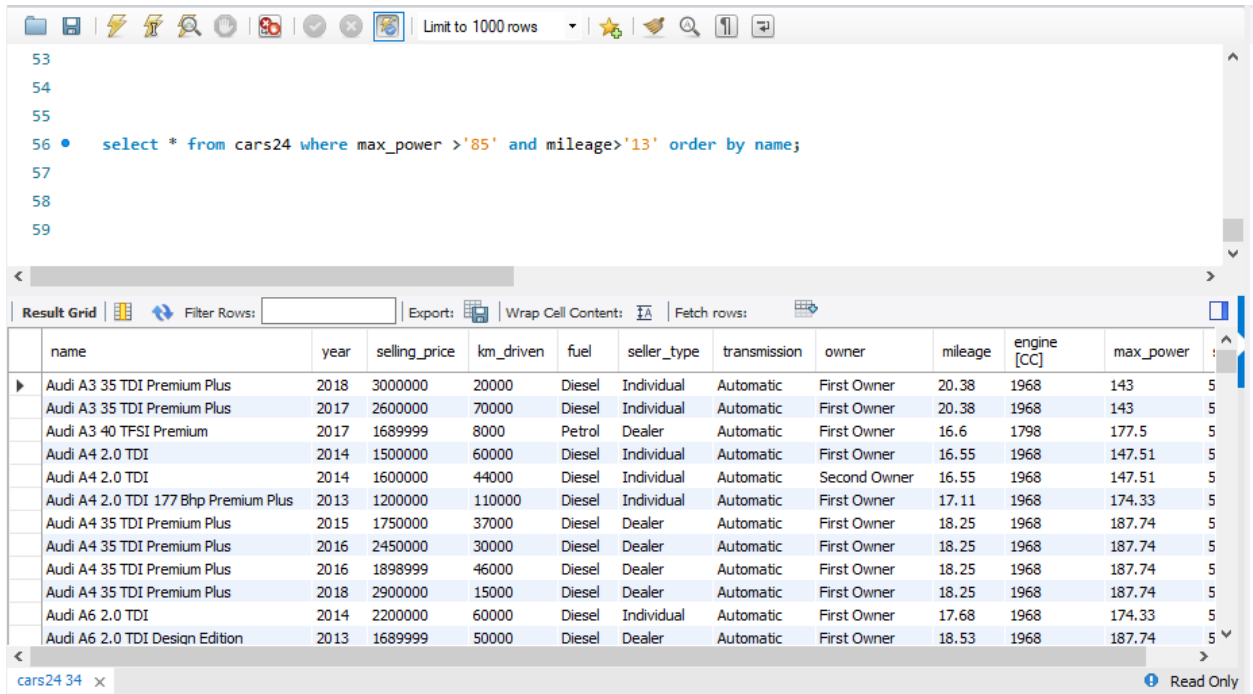
The screenshot shows a SQL query editor with a toolbar at the top. The query entered is `select max_power,mileage,count(*) from cars24 group by 1,2 order by 1,2`. Below the query editor, a "Result Grid" is displayed with the following data:

max_power	mileage	count(*)
0	19.41	6
32.8	10.9	2
34.2	16.8	21
35	14	8
35	19.7	7
35	26	7
35.5	12.8	1
35.5	16.6	1

The bottom of the window shows a tab labeled "Result 41" and a "Read Only" status.

Q10:- What are the details of the cars that have a high performance and efficiency?

select * from cars24 where max_power > '85' and mileage > '13' order by name;



The screenshot shows a database query interface. At the top, a toolbar includes icons for file operations, search, and execution. Below the toolbar, a text area contains the SQL query: `select * from cars24 where max_power > '85' and mileage > '13' order by name;`. Below the query, a "Result Grid" section displays the query results in a table. The table has 12 columns: name, year, selling_price, km_driven, fuel, seller_type, transmission, owner, mileage, engine [CC], and max_power. The results are sorted by name. The table shows 12 rows of data, including Audi A3 35 TDI Premium Plus, Audi A3 40 TFSI Premium, Audi A4 2.0 TDI, Audi A4 2.0 TDI 177 Bhp Premium Plus, Audi A4 35 TDI Premium Plus, Audi A4 35 TDI Premium Plus, Audi A4 35 TDI Premium Plus, Audi A4 35 TDI Premium Plus, Audi A4 35 TDI Premium Plus, Audi A6 2.0 TDI, Audi A6 2.0 TDI, and Audi A6 2.0 TDI Design Edition. The table is displayed in a "Read Only" mode.

	name	year	selling_price	km_driven	fuel	seller_type	transmission	owner	mileage	engine [CC]	max_power	
▶	Audi A3 35 TDI Premium Plus	2018	3000000	20000	Diesel	Individual	Automatic	First Owner	20.38	1968	143	5
	Audi A3 35 TDI Premium Plus	2017	2600000	70000	Diesel	Individual	Automatic	First Owner	20.38	1968	143	5
	Audi A3 40 TFSI Premium	2017	1689999	8000	Petrol	Dealer	Automatic	First Owner	16.6	1798	177.5	5
	Audi A4 2.0 TDI	2014	1500000	60000	Diesel	Individual	Automatic	First Owner	16.55	1968	147.51	5
	Audi A4 2.0 TDI	2014	1600000	44000	Diesel	Individual	Automatic	Second Owner	16.55	1968	147.51	5
	Audi A4 2.0 TDI 177 Bhp Premium Plus	2013	1200000	110000	Diesel	Individual	Automatic	First Owner	17.11	1968	174.33	5
	Audi A4 35 TDI Premium Plus	2015	1750000	37000	Diesel	Dealer	Automatic	First Owner	18.25	1968	187.74	5
	Audi A4 35 TDI Premium Plus	2016	2450000	30000	Diesel	Dealer	Automatic	First Owner	18.25	1968	187.74	5
	Audi A4 35 TDI Premium Plus	2016	1898999	46000	Diesel	Dealer	Automatic	First Owner	18.25	1968	187.74	5
	Audi A4 35 TDI Premium Plus	2018	2900000	15000	Diesel	Dealer	Automatic	First Owner	18.25	1968	187.74	5
	Audi A6 2.0 TDI	2014	2200000	60000	Diesel	Individual	Automatic	First Owner	17.68	1968	174.33	5
	Audi A6 2.0 TDI Design Edition	2013	1689999	50000	Diesel	Dealer	Automatic	First Owner	18.53	1968	187.74	5