

SECOND HAND CAR DEALER

SQL PROJECT

1: Read Cars Data.

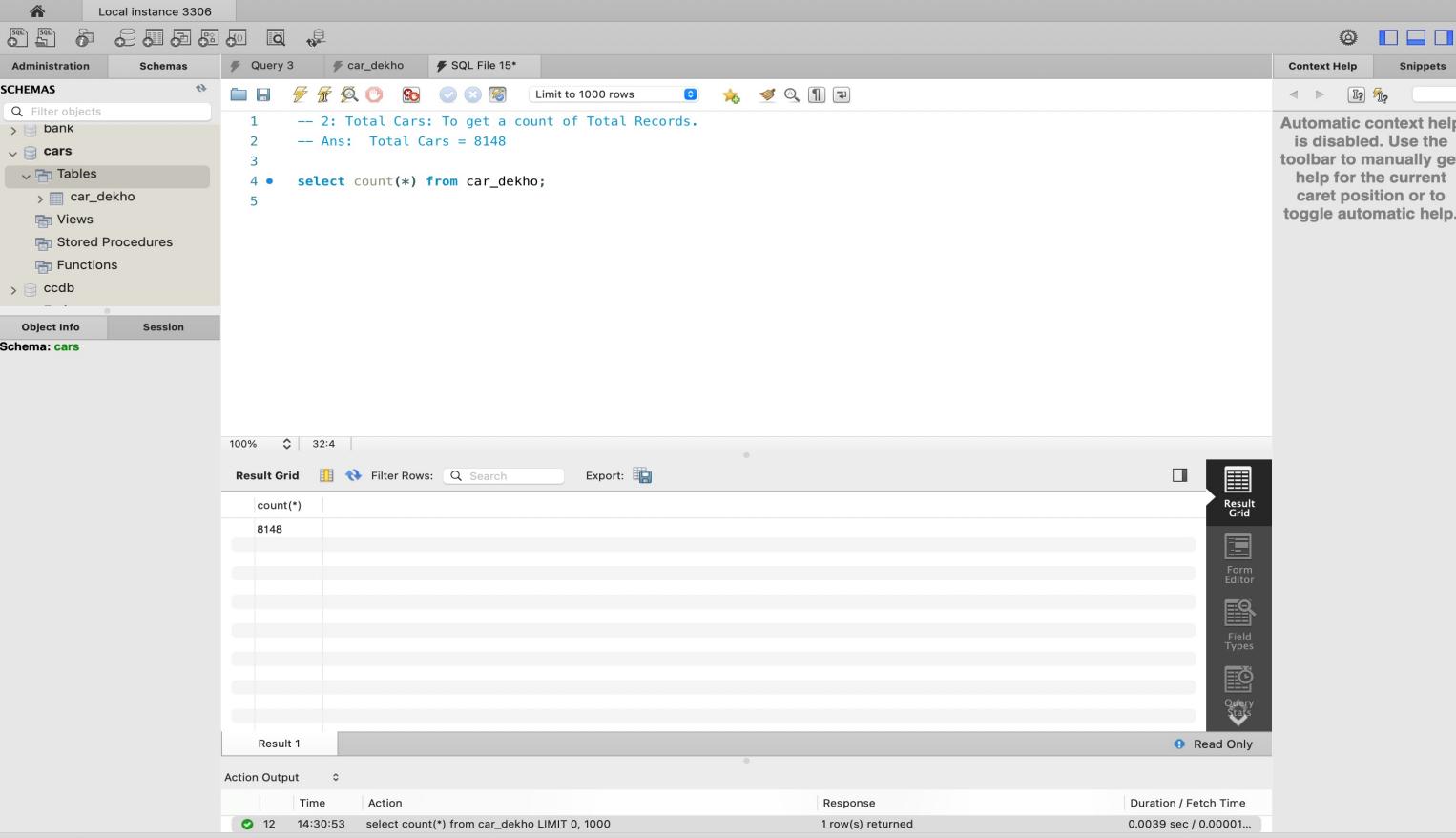
The screenshot shows the Oracle SQL Developer interface with the following details:

- Toolbar:** Includes icons for Home, Database, Schemas, Query, and Help.
- Schemas:** Shows the 'Local instance 3306' connection. The 'cars' schema is selected, and its tables ('car_dekho') are visible.
- Query Editor:** Displays the following SQL code:

```
1 •  create schema cars;
2 •  use cars;
3 •  -- READ DATA--
4 •  select*from car_dekho;
```

A note on the right states: "Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help."
- Result Grid:** Shows the results of the query, displaying a list of cars with columns: Name, year, selling_pri..., km_driven, fuel, seller_type, transmission, owner, mileage, engine, max_power, torque, seats.
- Action Output:** Shows the execution details: Time (14:26:18), Action (select*from car_dekho LIMIT 0, 1000), Response (1000 row(s) returned), Duration / Fetch Time (0.0019 sec / 0.0048 sec).

2: Total Cars: To get a count of total records



The screenshot shows the Oracle SQL Developer interface. The left sidebar displays the schema structure under 'SCHEMAS'. The 'Tables' section is expanded, showing 'car_dekho' as the selected table. The central pane contains a query editor with the following SQL code:

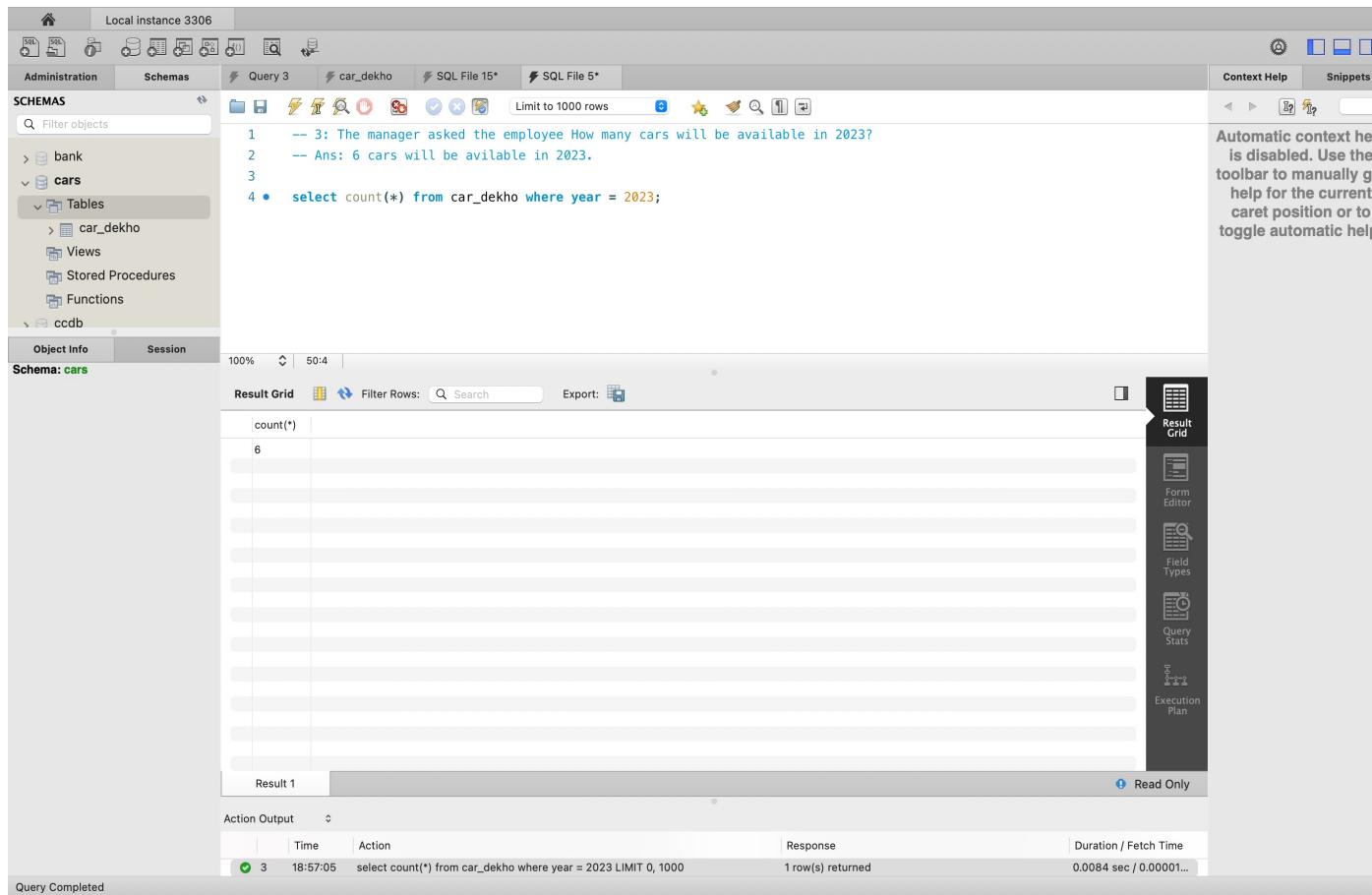
```
1 -- 2: Total Cars: To get a count of Total Records.  
2 -- Ans: Total Cars = 8148  
3  
4 • select count(*) from car_dekho;  
5
```

The right pane shows the results of the query in a 'Result Grid' table:

count(*)
8148

Below the grid, the status bar indicates 'Query Completed'.

3: The manager asked the employee that how many cars were available in 2023.



The screenshot shows the Oracle SQL Developer interface. The left sidebar displays the schema tree with 'Local instance 3306' selected. Under the 'Schemas' section, 'cars' is expanded, showing 'Tables' (car_dekho), 'Views', 'Stored Procedures', and 'Functions'. The 'Object Info' tab is active, showing the schema 'cars'. The main pane contains a query editor with the following SQL code:

```
1 -- 3: The manager asked the employee How many cars will be available in 2023?
2 -- Ans: 6 cars will be available in 2023.
3
4 • select count(*) from car_dekho where year = 2023;
```

The results grid shows a single row with the value '6' under the column 'count(*)'. A tooltip on the right side of the screen states: "Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help." The bottom status bar indicates the query was completed at 18:57:05 with a duration of 0.0084 sec / 0.00001...

4: The manager asked the employee that how many cars were available in 2020, 2021, 2022.

The screenshot shows the Oracle SQL Developer interface. The left sidebar displays the schema tree with 'cars' selected, showing 'Tables', 'Views', and 'Stored Procedures'. The main pane contains a query editor with the following SQL code:

```
1 -- 4: The manager asked the employee How many cars are available in 2020, 2021, 2022?
2 -- Ans:
3
4 • select count(*) from car_dekho where year = 2020; #74
5 • select count(*) from car_dekho where year = 2021; #7
6 • select count(*) from car_dekho where year = 2022; #7
7
8 #OR
9
10 • select count(*) from car_dekho where year in(2020,2021,2022) group by year;
```

The right side of the interface has a message: "Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help." Below the message is a "Result Grid" window showing the results of the query:

count(*)
7
7
74

The status bar at the bottom indicates "Query Completed".

5: Client asked me to print the total of all the cars by year. I don't see all the details.

The screenshot shows the Oracle SQL Developer interface. The top navigation bar displays 'Local instance 3306'. Below it, the 'Schemas' tab is selected, showing the 'cars' schema with its tables, views, and stored procedures. A query window contains the following SQL code:

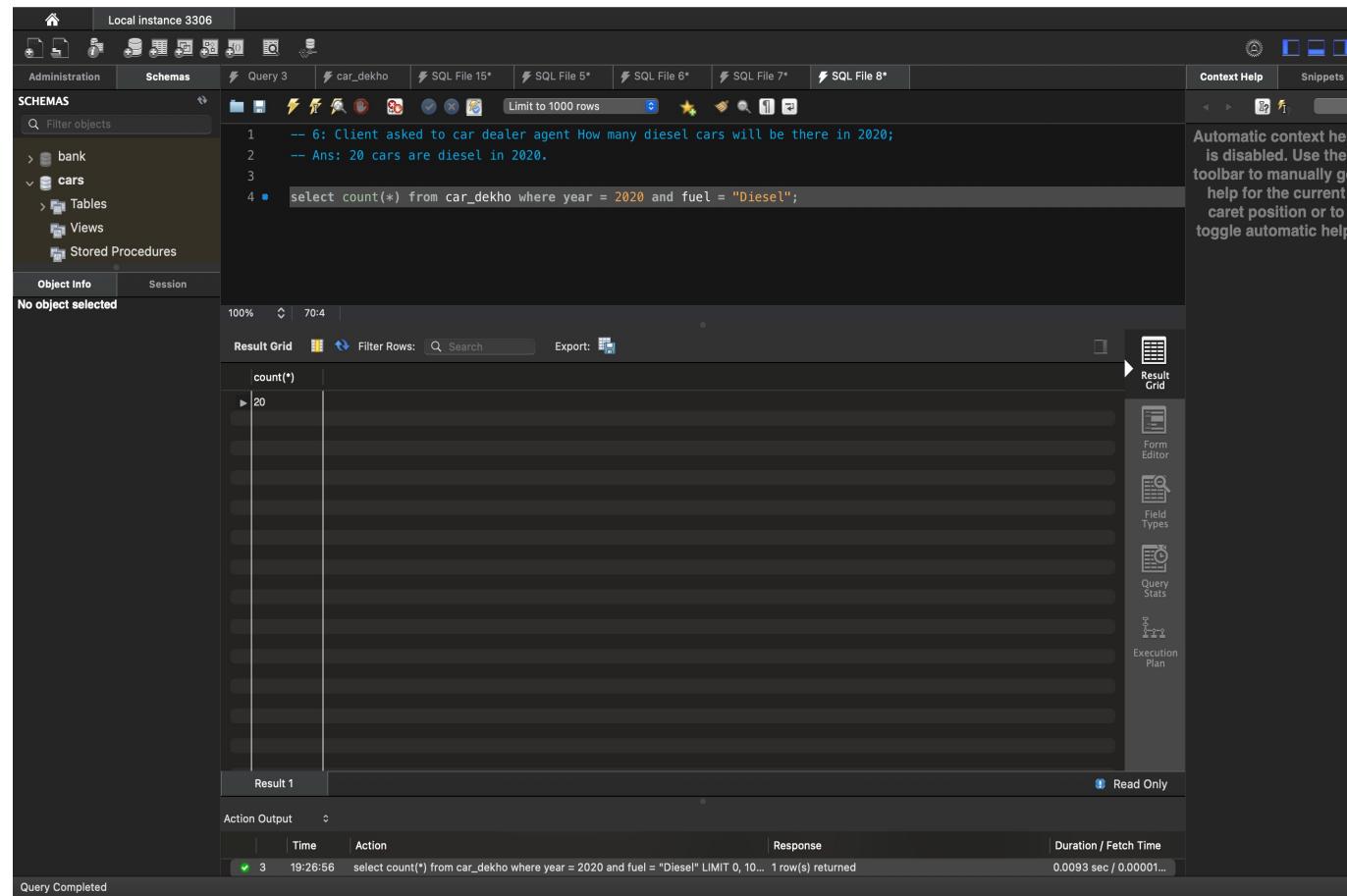
```
-- 5: Client asked me to print the total of all cars by year. I don't see all the details.  
-- Ans: Below are the output of the details of all cars by year.  
select year, count(*) from car_dekho group by year;
```

The results grid shows the count of cars for each year from 2023 down to 2004. The results are as follows:

year	count(*)
2023	6
2022	7
2021	7
2020	74
2019	563
2018	807
2017	1018
2016	859
2015	776
2014	621
2013	670
2012	651
2011	592
2010	394
2009	246
2008	214
2007	183
2006	124
2005	97
2004	49

The status bar at the bottom indicates 'Query Completed'.

6: Client asked to car dealer agent that how many diesel cars were there in 2020.

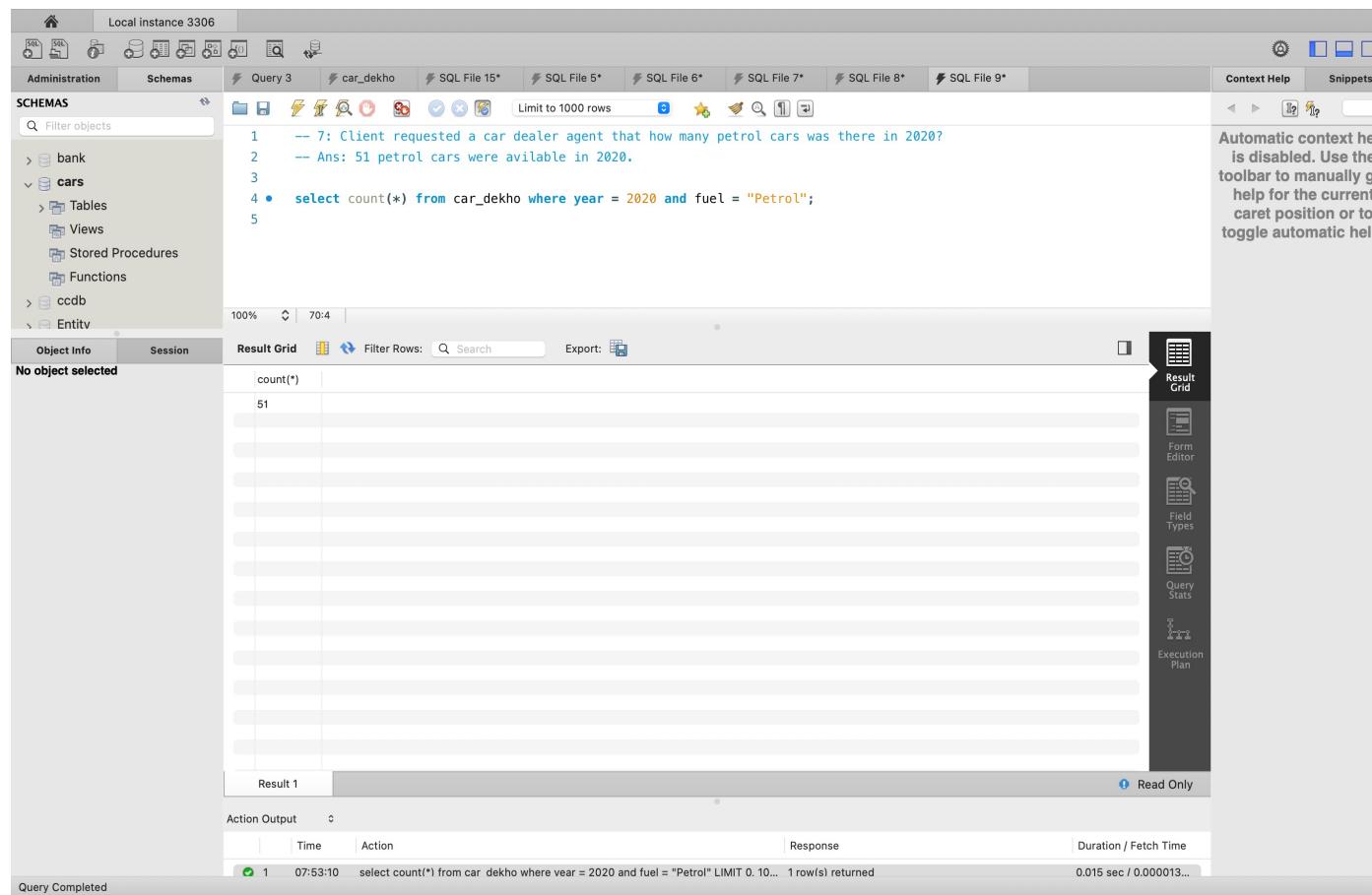


The screenshot shows the Oracle SQL Developer interface. The left sidebar displays the schema structure under 'Schemas' with 'cars' expanded, showing 'Tables', 'Views', and 'Stored Procedures'. The main pane shows a query editor with the following SQL code:

```
-- 6: Client asked to car dealer agent How many diesel cars will be there in 2020;
-- Ans: 20 cars are diesel in 2020.
select count(*) from car_dekho where year = 2020 and fuel = "Diesel";
```

The results grid shows a single row with the value 20. A context help tooltip is visible on the right side of the interface, stating: "Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help." The bottom status bar indicates "Query Completed".

7: Client requested car dealer agent that how many petrol cars were there in 2020.

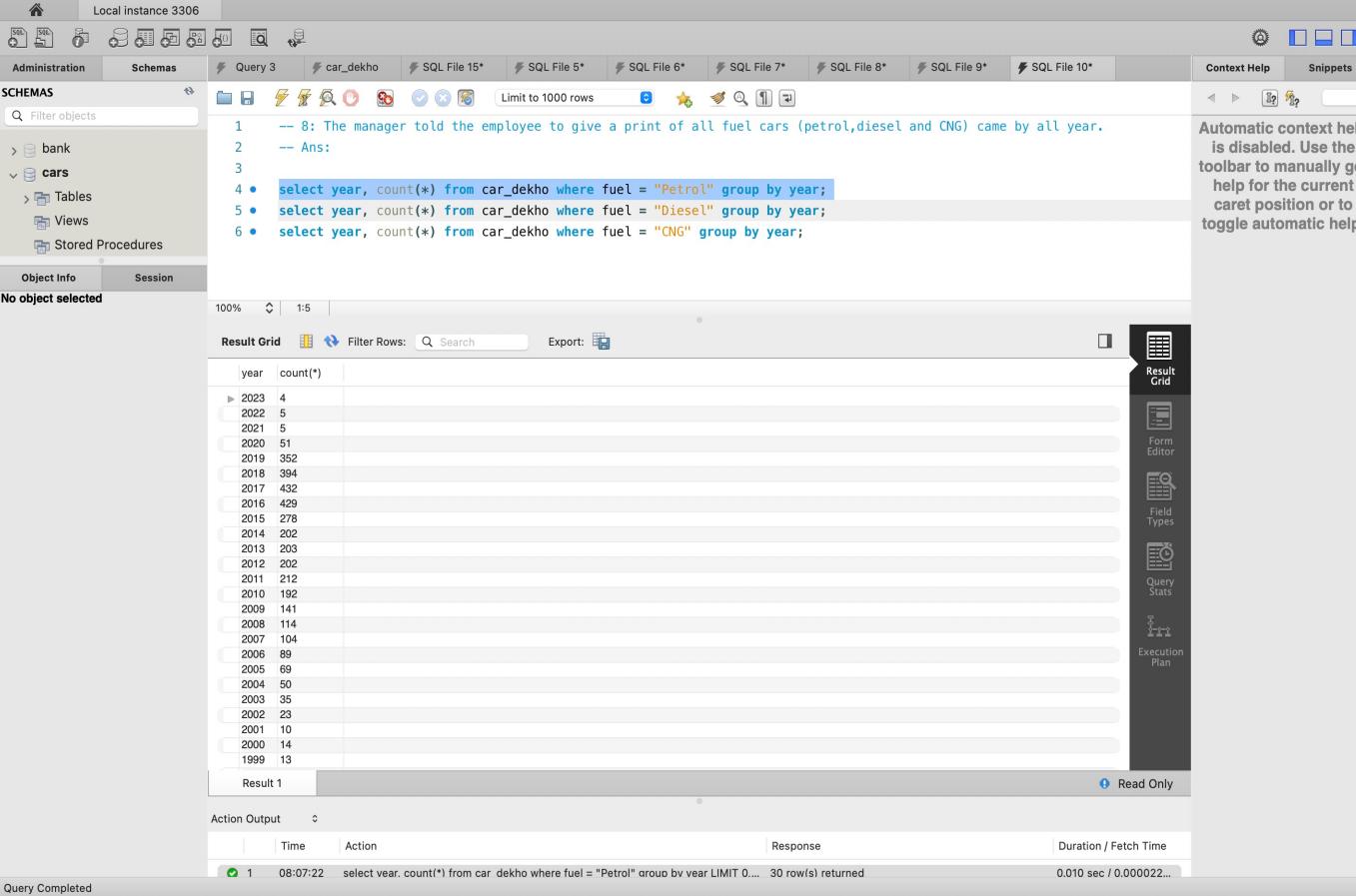


The screenshot shows the Oracle SQL Developer interface. The left sidebar displays the schema structure under 'SCHEMAS'. The 'cars' schema is expanded, showing 'Tables', 'Views', 'Stored Procedures', and 'Functions'. The 'Tables' section contains a single entry: 'car_dekho'. The main workspace shows a query editor with the following SQL code:

```
-- 7: Client requested a car dealer agent that how many petrol cars was there in 2020?  
-- Ans: 51 petrol cars were available in 2020.  
  
select count(*) from car_dekho where year = 2020 and fuel = "Petrol";
```

The results grid shows a single row with the value '51' under the column 'count(*)'. A tooltip on the right side of the interface states: 'Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.' At the bottom, the status bar indicates 'Query Completed'.

8: The manager told the employee to give a print all the fuel cars (petrol, diesel and CNG) came by all year.



The screenshot shows the Oracle SQL Developer interface. The left sidebar displays the schema structure under 'SCHEMAS' with 'cars' expanded, showing 'Tables', 'Views', and 'Stored Procedures'. The main area contains a SQL editor with the following code:

```
-- 8: The manager told the employee to give a print of all fuel cars (petrol,diesel and CNG) came by all year.  
--- Ans:  
1 select year, count(*) from car_dekho where fuel = "Petrol" group by year;  
2 select year, count(*) from car_dekho where fuel = "Diesel" group by year;  
3 select year, count(*) from car_dekho where fuel = "CNG" group by year;
```

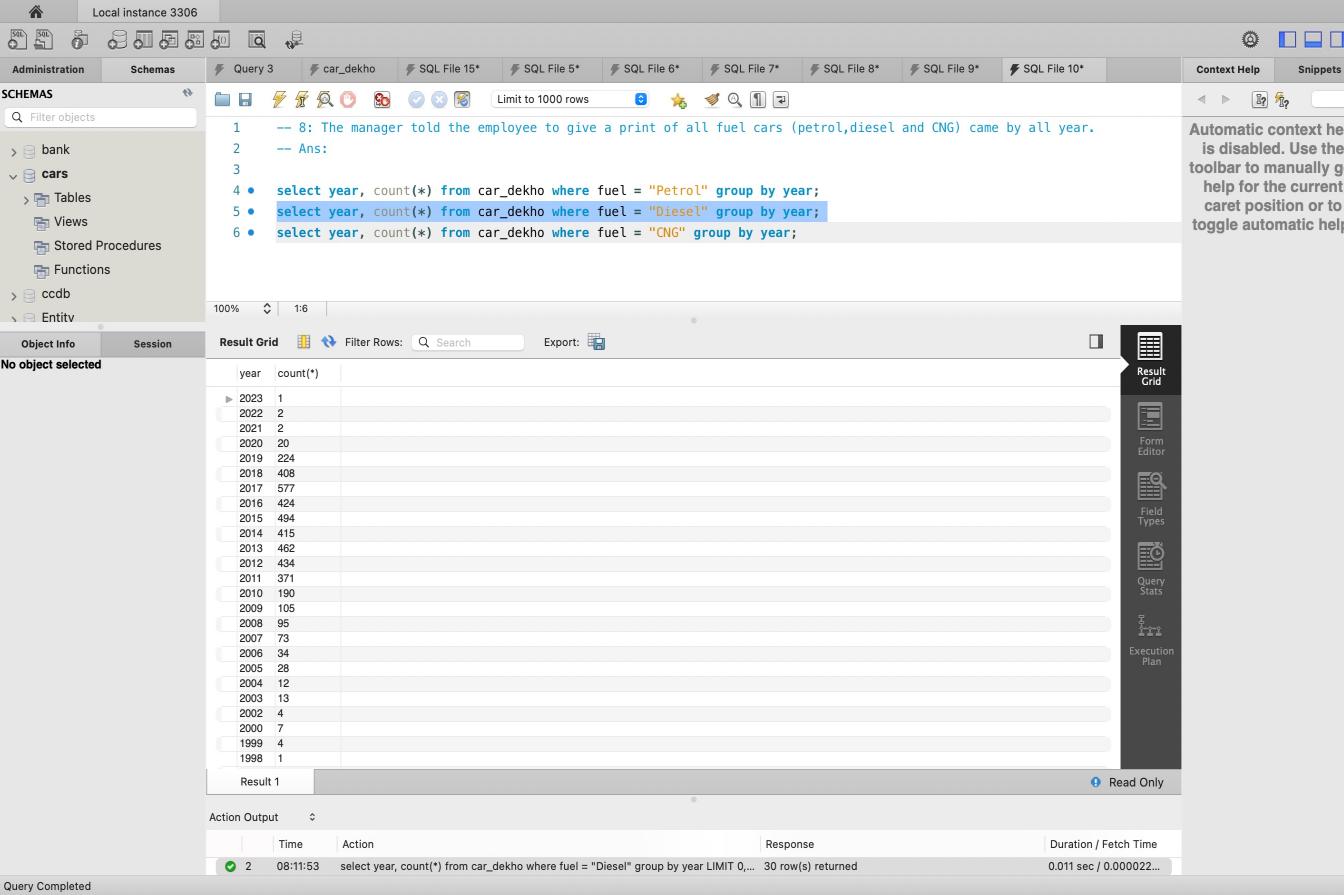
The results grid shows the count of cars for each year from 1999 to 2023. The results are as follows:

year	count(*)
2023	4
2022	5
2021	5
2020	51
2019	352
2018	394
2017	432
2016	429
2015	278
2014	202
2013	203
2012	202
2011	212
2010	192
2009	141
2008	114
2007	104
2006	89
2005	69
2004	50
2003	35
2002	23
2001	10
2000	14
1999	13

The status bar at the bottom indicates 'Query Completed'.

Petrol

8: The manager told the employee to give a print all the fuel cars (petrol, diesel and CNG) came by all year.



The screenshot shows the MySQL Workbench interface with a query editor and results grid. The query is:

```
-- 8: The manager told the employee to give a print of all fuel cars (petrol,diesel and CNG) came by all year.  
-- Ans:  
  
4 • select year, count(*) from car_dekho where fuel = "Petrol" group by year;  
5 • select year, count(*) from car_dekho where fuel = "Diesel" group by year;  
6 • select year, count(*) from car_dekho where fuel = "CNG" group by year;
```

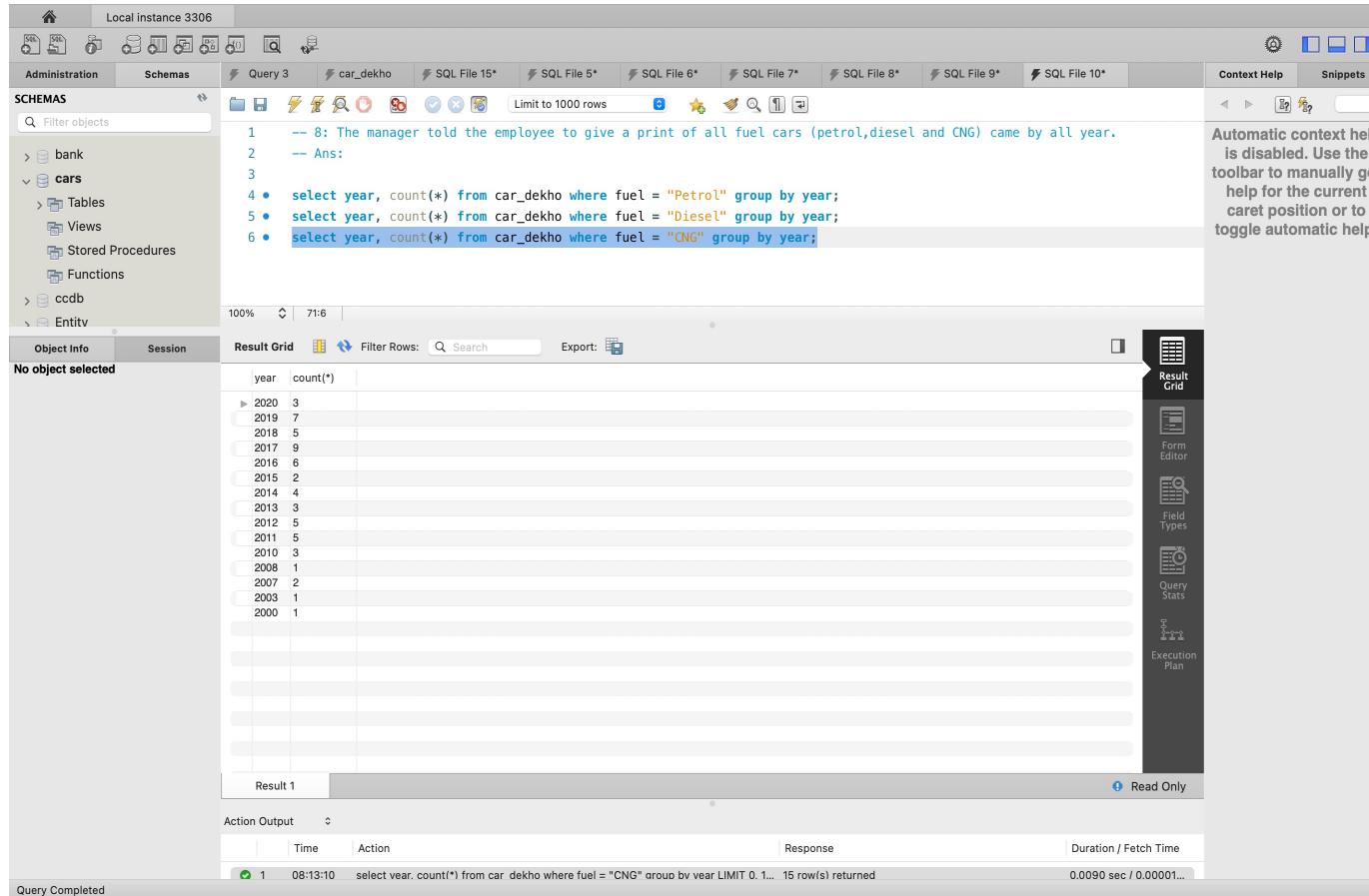
The results grid shows the count of cars by year for Diesel fuel type:

year	count(*)
2023	1
2022	2
2021	2
2020	20
2019	224
2018	408
2017	577
2016	424
2015	494
2014	415
2013	462
2012	434
2011	371
2010	190
2009	105
2008	95
2007	73
2006	34
2005	28
2004	12
2003	13
2002	4
2000	7
1999	4
1998	1

At the bottom, the status bar says "Query Completed".

Diesel

8: The manager told the employee to give a print all the fuel cars (petrol, diesel and CNG) came by all year.



The screenshot shows the Oracle SQL Developer interface. The left sidebar displays the schema structure under 'SCHEMAS'. The main pane contains a query editor with the following SQL code:

```
-- 8: The manager told the employee to give a print of all fuel cars (petrol,diesel and CNG) came by all year.  
-- Ans:  
  
4 • select year, count(*) from car_dekho where fuel = "Petrol" group by year;  
5 • select year, count(*) from car_dekho where fuel = "Diesel" group by year;  
6 • select year, count(*) from car_dekho where fuel = "CNG" group by year;
```

The results grid shows the following data:

year	count(*)
2020	3
2019	7
2018	5
2017	9
2016	6
2015	2
2014	4
2013	3
2012	5
2011	5
2010	3
2008	1
2007	2
2003	1
2000	1

A context help tooltip is visible on the right side of the screen, stating: "Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help."

CNG

9: Manager said that there were more than 100 cars in a given year, which year had more than 100 cars.

The screenshot shows the Oracle SQL Developer interface. The left sidebar displays the schema tree with 'car_dekho' as the current connection. The main pane shows a query editor with the following SQL code:

```
1 -- 9: Manager said there were more than 100 cars in a given year, which year had more than 100 cars?
2 -- Ans:
3
4 • select year, count(*) from car_dekho group by year having count(*)>100;
```

The results grid shows the following data:

year	count(*)
2019	583
2018	807
2017	1018
2016	859
2015	776
2014	621
2013	670
2012	651
2011	592
2010	394
2009	246
2008	214
2007	183
2006	124

The status bar at the bottom indicates "Query Completed".

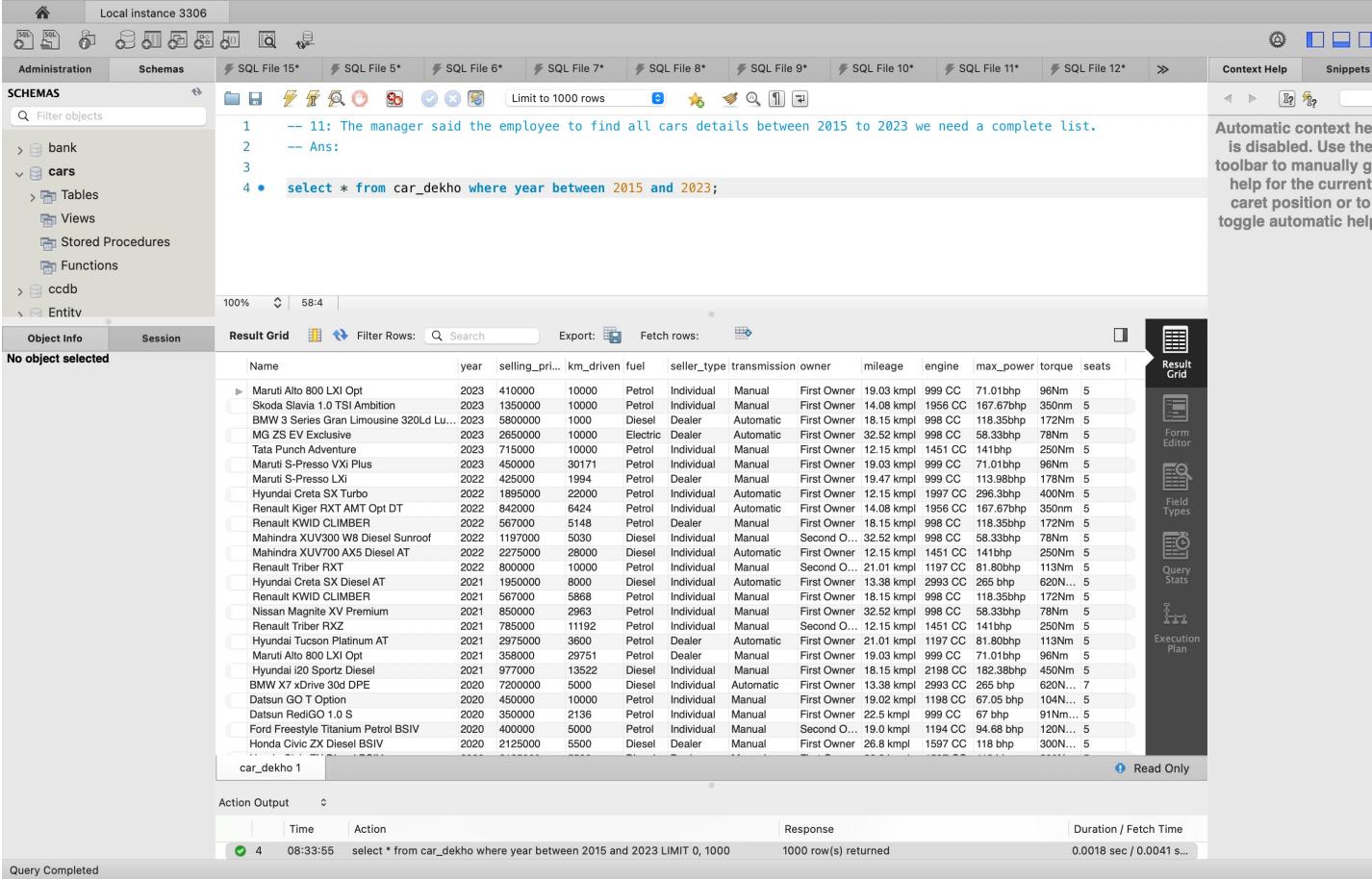
10: The manager asked the employee to find out the all cars count details between 2015 and 2023 we need a complete list.

The screenshot shows the MySQL Workbench interface with the following details:

- Toolbar:** Local instance 3306, Administration, Schemas, SQL File 15*, SQL File 5*, SQL File 6*, SQL File 7*, SQL File 8*, SQL File 9*, SQL File 10*, SQL File 11*, SQL File 12*, Context Help, Snippets.
- Schemas:** bank, cars, ccdb, Entity.
- Query Editor:** Contains the following SQL code:

```
-- 10: The manager said the employee to find out all cars count details between 2015 to 2023.  
-- Ans: 4137 cars were there in the list between 2015 to 2023.  
--  
4 • select count(*) from car_dekho where year between 2015 and 2023;
```
- Result Grid:** Shows the result of the query: count(*) = 4137.
- Help Panel:** Displays the message: "Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help."
- Status Bar:** Action Output: 3, Time: 08:27:32, Action: select count(*) from car_dekho where year between 2015 and 2023 LIMIT 0, 1000, Response: 1 row(s) returned, Duration / Fetch Time: 0.00077 sec / 0.00001..., Query Completed.

11: The manager asked the employee to find out all cars details between 2015 to 2023 we need complete list.



The screenshot shows a SQL Server Management Studio (SSMS) interface. The left pane displays the Object Explorer with the 'Schemas' node expanded, showing 'bank', 'cars', 'ccdb', and 'Entitv'. The 'Tables' node under 'cars' is selected. The right pane shows a query window with the following content:

```
1 -- 11: The manager said the employee to find all cars details between 2015 to 2023 we need a complete list.
2 -- Ans:
3
4 • select * from car_dekho where year between 2015 and 2023;
```

The results grid below the query window displays a list of car details. The columns include: Name, year, selling_pri..., km_driven, fuel, seller_type, transmission, owner, mileage, engine, max_power, torque, and seats. The data consists of approximately 30 rows of car specifications. A tooltip on the right side of the interface states: "Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help."

Name	year	selling_pri...	km_driven	fuel	seller_type	transmission	owner	mileage	engine	max_power	torque	seats
Maruti Alto 800 LXI Opt	2023	410000	10000	Petrol	Individual	Manual	First Owner	19.03 kmpl	999 CC	71.01bhp	96Nm	5
Skoda Slavia 1.0 TSI Ambition	2023	1350000	10000	Petrol	Individual	Manual	First Owner	14.08 kmpl	1956 CC	167.67bhp	350Nm	5
BMW 3 Series Gran Limousine 320d Lu...	2023	5800000	1000	Diesel	Dealer	Automatic	First Owner	18.15 kmpl	998 CC	118.35bhp	172Nm	5
MG ZS EV Exclusive	2023	2650000	10000	Electric	Dealer	Automatic	First Owner	32.52 kmpl	998 CC	58.33bhp	78Nm	5
Tata Punch Adventure	2023	715000	10000	Petrol	Individual	Manual	First Owner	12.15 kmpl	1451 CC	141bhp	250Nm	5
Maruti S-Presso VXI Plus	2023	450000	30171	Petrol	Individual	Manual	First Owner	19.03 kmpl	999 CC	71.01bhp	96Nm	5
Maruti S-Presso LXI	2022	425000	1994	Petrol	Dealer	Manual	First Owner	19.47 kmpl	999 CC	113.98bhp	178Nm	5
Hyundai Creta SX Turbo	2022	1895000	22000	Petrol	Individual	Automatic	First Owner	12.15 kmpl	1997 CC	296.3bhp	400Nm	5
Renault Kiger RXT AMT Opt DT	2022	842000	6424	Petrol	Individual	Automatic	First Owner	14.08 kmpl	1956 CC	167.67bhp	350Nm	5
Renault KWID CLIMBER	2022	567000	5148	Petrol	Dealer	Manual	First Owner	18.15 kmpl	998 CC	118.35bhp	172Nm	5
Mahindra XUV300 W8 Diesel Sunroof	2022	1197000	5030	Diesel	Individual	Manual	Second O...	32.52 kmpl	998 CC	58.33bhp	78Nm	5
Mahindra XUV700 AX5 Diesel AT	2022	2275000	28000	Diesel	Individual	Automatic	First Owner	12.15 kmpl	1451 CC	141bhp	250Nm	5
Renault Triber RXT	2022	80000	10000	Petrol	Individual	Manual	Second O...	21.01 kmpl	1197 CC	81.80bhp	113Nm	5
Hyundai Creta SX Diesel AT	2021	1950000	8000	Diesel	Individual	Automatic	First Owner	13.38 kmpl	2993 CC	265 bhp	620N...	5
Renault KWID CLIMBER	2021	567000	5868	Petrol	Individual	Manual	First Owner	18.15 kmpl	998 CC	118.35bhp	172Nm	5
Nissan Magnite XV Premium	2021	850000	2963	Petrol	Individual	Manual	First Owner	32.52 kmpl	998 CC	58.33bhp	78Nm	5
Renault Triber RXZ	2021	785000	11192	Petrol	Individual	Manual	Second O...	12.15 kmpl	1451 CC	141bhp	250Nm	5
Hyundai Tucson Platinum AT	2021	2975000	3600	Petrol	Dealer	Automatic	First Owner	21.01 kmpl	1197 CC	81.80bhp	113Nm	5
Maruti Alto 800 LXI Opt	2021	358000	29751	Petrol	Dealer	Manual	First Owner	19.03 kmpl	999 CC	71.01bhp	96Nm	5
Hyundai i20 Sportz Diesel	2021	977000	13522	Diesel	Individual	Manual	First Owner	18.15 kmpl	2198 CC	182.38bhp	450Nm	5
BMW X7 xDrive 30d DPE	2020	7200000	5000	Diesel	Individual	Automatic	First Owner	13.38 kmpl	2993 CC	265 bhp	620N...	7
Datsun GO T Option	2020	450000	10000	Petrol	Individual	Manual	First Owner	19.02 kmpl	1198 CC	67.05bhp	104N...	5
Datsun RediGO 1.0 S	2020	350000	2136	Petrol	Individual	Manual	First Owner	22.5 kmpl	999 CC	67 bhp	91Nm...	5
Ford Freestyle Titanium Petrol BSIV	2020	400000	5000	Petrol	Individual	Manual	Second O...	19.0 kmpl	1194 CC	94.68 bhp	120N...	5
Honda Civic ZX Diesel BSIV	2020	2125000	5500	Diesel	Dealer	Manual	First Owner	26.8 kmpl	1597 CC	118 bhp	300N...	5