

Name: \_\_\_\_\_

Date: \_\_\_\_\_

## Understanding SQL: Somerset Cars

A car dealer stores data about the cars in their showroom. Figure 1 shows the data returned from the database when the SQL command `SELECT * FROM Cars` is executed.

CarID	Make	Model	Year	ValidMOT	Price	Colour
001	Audi	A3 Sport	2012	TRUE	10000	Black
002	Nissan	Qashqai	2010	TRUE	8000	Orange
003	Peugeot	206	2005	FALSE	400	Black
004	Audi	A6	2010	TRUE	7095	Blue
005	Audi	Q3 Sport	2018	TRUE	27095	Blue
006	Volkswagen	Golf	2013	FALSE	13049	Red
007	Volkswagen	Polo	2009	TRUE	7000	White
008	Ford	Focus	2010	TRUE	3949	White
009	BMW	Mini	2012	FALSE	6999	Purple
010	BMW	1 series	2017	TRUE	17000	White

Figure 1: Cars table

### Examples (Note that only strings use quotation marks in the WHERE statement)

Give the SQL command that would be needed to all cars made which are blue or black. Only the Make, Model and Price should be shown.

```
SELECT Make, Model, Price
FROM Cars
WHERE Colour = 'Blue' OR Colour = 'Red'
```

Give the SQL command that would be needed to all cars made by Audi and are £10,000 or under. Only the Make, Model, Year and Price should be shown.

```
SELECT Make, Model, Year, Price
FROM Cars
WHERE Make = 'Audi' AND Price <= 1000
```

Give the SQL command that would be needed to all cars made by Audi and are £10,000 or under. Only the Make, Model, Year and Price should be shown and should be sorted in alphabetical order by model

```
SELECT Make, Model, Year, Price
FROM Cars
WHERE Make = 'Audi' AND Price <= 1000
ORDER BY Model ASC
```



Give the SQL command that would be needed to all cars made by Audi and are £10,000 or under. Only the Make, Model, Year and Price should be shown and should be sorted by price in descending order.

```
SELECT Make, Model, Year, Price
FROM Cars
WHERE Make = 'Audi' AND Price <= 1000
ORDER BY Price DESC
```

CarID	Make	Model	Year	ValidMOT	Price	Colour
001	Audi	A3 Sport	2012	TRUE	10000	Black
002	Nissan	Qashqai	2010	TRUE	8000	Orange
003	Peugeot	206	2005	FALSE	400	Black
004	Audi	A6	2010	TRUE	7095	Blue
005	Audi	Q3 Sport	2018	TRUE	27095	Blue
006	Volkswagen	Golf	2013	FALSE	13049	Red
007	Volkswagen	Polo	2009	TRUE	7000	White
008	Ford	Focus	2010	TRUE	3949	White
009	BMW	Mini	2012	FALSE	6999	Purple
010	BMW	1 series	2017	TRUE	17000	White

Figure 1: Cars table

### SILVER Challenges:

Q		Video Help
1	Give the SQL command that would be needed to show all cars made by BMW or Audi. Only the Make, Model and Colour needs to be displayed.	
2	Give the SQL command that would be needed to show all red cars over £3000. Only the Make, Model and Price fields should be displayed.	
3	Give the SQL command that would be needed to show all cars which are a Mini or have a valid MOT . Only the Make and Model should be shown.	
4	Give the SQL command that would be needed to show all cars with a valid MOT and were made before 2010. All fields must be displayed in your results.	
5	Give the SQL command that would be needed to show all cars before 2012 and are red in colour. All fields must be displayed in your results.	
6	Give the SQL command that would be needed to show all cars not made by Nissan or Ford. The Make, Model, Colour and Price must be displayed in the results.	
7	Give the SQL command that would be needed to show all cars between £10,000 and £15,000. All fields must be displayed in your results and the models should be sorted in alphabetical order.	
8	Give the SQL command that would be needed to show all cars costing £7000 or less and are black. Only the Make, Model and Price should be displayed and the cheapest cars should appear at the top.	
9	Give the SQL command that would be needed to show all cars made in between the years 2012 and 2017. Only the Model and Price should be display and the newest cars should be displayed at the top.	
10	Give the SQL command that would be needed to show all cars not made by Nissan and are either black or blue in colour. All fields must be displayed in your results and should be grouped by Make.	