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## Lab 07

### Task 1: Create a new table cars used for a car dealership

The screenshot shows a database management interface. On the left, a tree view displays the database structure: 'information\_schema' > 's103806007\_db' > 'cars'. The 'cars' table is selected. On the right, the SQL editor shows the query: `SELECT * FROM `cars``. Below the editor, there are options for 'Show all', 'Number of rows' (set to 25), and 'Filter rows'. The 'Extra options' section is expanded, showing a table with 11 rows. The table has columns: car\_id, make, model, price, and yom. The data is as follows:

car_id	make	model	price	yom
1	BMW	X3	3500	2010
2	Holden	Astra	14000	2009
3	Ford	Falcon	39000	2013
4	Toyota	Corolla	20000	2012
5	Holden	Commodore	13500	2005
6	Holden	Astra	8000	2004
7	Holden	Commodore	28000	2009
8	Ford	Falcon	14000	2011
9	Ford	Falcon	7000	2003
10	Ford	Laser	10000	2010
11			0	0

Query used:

CREATE TABLE cars (

car\_id int(11) NOT NULL AUTO\_INCREMENT,

make varchar(25),

model varchar(40),

price float,

yom int(11),

PRIMARY KEY (car\_id)

);

To insert into table we use query:

INSERT INTO cars (car\_id, make, model, price, yom) VALUES

(NULL, 'BMW', 'X3', '3500', '2010');

## Task 2: Querying the table

### 1. Return all record

Query: “SELECT \* FROM cars;”

The screenshot shows a database management interface. On the left is a tree view of the database structure. The main panel displays the results of the query "SELECT \* FROM cars;". A status bar at the top indicates "Showing rows 0 - 9 (10 total, Query took 0.0019 seconds.)". Below the query text, there are links for "Profiling", "Edit inline", "Edit", "Explain SQL", "Create PHP code", and "Refresh". A control bar shows "Show all", "Number of rows: 25", "Filter rows: Search this table", and "Sort by key: None". An "Extra options" button is also present. The query results are shown in a table with columns: car\_id, make, model, price, and yom. Below the table, there are "Check all", "With selected:", "Edit", "Copy", "Delete", and "Export" options. At the bottom, a "Query results operations" section and a "Console" panel are visible. The console shows the executed query: ">SELECT \* FROM cars;".

Recent Favorites

New

information\_schema

s103806007\_db

New

animal

car

cars

city

country

countrylanguage

employees

enclosure

staff

Showing rows 0 - 9 (10 total, Query took 0.0019 seconds.)

SELECT \* FROM cars;

Profiling [ Edit inline ] [ Edit ] [ Explain SQL ] [ Create PHP code ] [ Refresh ]

Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

Extra options

	car_id	make	model	price	yom
<input type="checkbox"/> Edit Copy Delete	1	BMW	X3	3500	2010
<input type="checkbox"/> Edit Copy Delete	2	Holden	Astra	14000	2009
<input type="checkbox"/> Edit Copy Delete	3	Ford	Falcon	39000	2013
<input type="checkbox"/> Edit Copy Delete	4	Toyota	Corolla	20000	2012
<input type="checkbox"/> Edit Copy Delete	5	Holden	Commodore	13500	2005
<input type="checkbox"/> Edit Copy Delete	6	Holden	Astra	8000	2004
<input type="checkbox"/> Edit Copy Delete	7	Holden	Commodore	28000	2009
<input type="checkbox"/> Edit Copy Delete	8	Ford	Falcon	14000	2011
<input type="checkbox"/> Edit Copy Delete	9	Ford	Falcon	7000	2003
<input type="checkbox"/> Edit Copy Delete	10	Ford	Laser	10000	2010

Check all | With selected: Edit Copy Delete Export

Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

Query results operations

Console

Press Ctrl+Enter to execute query

>SELECT \* FROM cars;

>

### 2. Make, model, and price, sorted by make and model

Query: “SELECT make, model, price FROM cars ORDER BY make, model;”

Showing rows 0 - 9 (10 total, Query took 0.0023 seconds.) [make: BMW... - TOYOTA...] [model: X3... - COROLLA...]

`SELECT make, model, price FROM cars ORDER BY make, model;`

Profiling [ Edit inline ] [ Edit ] [ Explain SQL ] [ Create PHP code ] [ Refresh ]

Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

Extra options

	make	model	price
<input type="checkbox"/> Edit Copy Delete	BMW	X3	3500
<input type="checkbox"/> Edit Copy Delete	Ford	Falcon	7000
<input type="checkbox"/> Edit Copy Delete	Ford	Falcon	39000
<input type="checkbox"/> Edit Copy Delete	Ford	Falcon	14000
<input type="checkbox"/> Edit Copy Delete	Ford	Laser	10000
<input type="checkbox"/> Edit Copy Delete	Holden	Astra	14000
<input type="checkbox"/> Edit Copy Delete	Holden	Astra	8000
<input type="checkbox"/> Edit Copy Delete	Holden	Commodore	13500
<input type="checkbox"/> Edit Copy Delete	Holden	Commodore	28000
<input type="checkbox"/> Edit Copy Delete	Toyota	Corolla	20000

Check all | With selected: Edit Copy Delete Export

Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

Query results operations

Console

Press Ctrl+Enter to execute query

```
> SELECT * FROM cars;
> SELECT make, model, price FROM cars ORDER BY make, model;
> |
```

3. The make and model of the cars which cost \$20,000.00 or more

Query: “SELECT make, model FROM cars WHERE price >= 20000;”

phpMyAdmin

Server: Feenix ManilaDB (MySQL) Database: s103806007\_db Table: cars

Recent Favorites

New information\_schema s103806007\_db New animal car cars city country countrylanguage employees enclosure staff

Showing rows 0 - 2 (3 total. Query took 0.0026 seconds.)

`SELECT make, model FROM cars WHERE price >= 20000;`

☐ Profiling [\[ Edit inline \]](#) [\[ Edit \]](#) [\[ Explain SQL \]](#) [\[ Create PHP code \]](#) [\[ Refresh \]](#)

☐ Show all Number of rows: 25 Filter rows: Search this table Sort by key: None

Extra options

	make	model
<input type="checkbox"/> Edit <a href="#">Copy</a> <a href="#">Delete</a>	Ford	Falcon
<input type="checkbox"/> Edit <a href="#">Copy</a> <a href="#">Delete</a>	Toyota	Corolla
<input type="checkbox"/> Edit <a href="#">Copy</a> <a href="#">Delete</a>	Holden	Commodore

☐ Check all With selected: [Edit](#) [Copy](#) [Delete](#) [Export](#)

☐ Show all Number of rows: 25 Filter rows: Search this table Sort by key: None

Query results operations

[Print](#) [Copy to clipboard](#) [Export](#) [Display chart](#) [Create view](#)

Bookmark this SQL query

Label:  ☐ Let every user access this bookmark

Bookmark this SQL query

Console

Press Ctrl+Enter to execute query

```
> SELECT * FROM cars;
> SELECT make, model, price FROM cars ORDER BY make, model;
> SELECT make, model FROM cars WHERE price >= 20000;
> |
```

4. The make and model of the cars which cost below \$15,000.00

Query: “SELECT make, model FROM cars WHERE price < 15000;”

The screenshot displays the phpMyAdmin web interface. On the left sidebar, the database structure is shown, including a schema named 's103806007\_db' with several tables like 'animal', 'car', 'cars', 'city', 'country', 'countrylanguage', 'employees', 'enclosure', and 'staff'. The 'cars' table is selected, and its data is displayed in the main panel. The query executed is `SELECT make, model FROM cars WHERE price < 15000;`, which returned 7 rows. The table shows columns 'make' and 'model' with data entries such as 'BMW X3', 'Holden Astra', 'Holden Commodore', 'Holden Astra', 'Ford Falcon', and 'Ford Laser'. Below the table, there are options for 'Query results operations' including Print, Copy to clipboard, Export, Display chart, and Create view. At the bottom, the 'Console' tab shows the executed SQL query.

Recent Favorites

New  
information\_schema  
s103806007\_db  
New  
animal  
car  
cars  
city  
country  
countrylanguage  
employees  
enclosure  
staff

Showing rows 0 - 6 (7 total, Query took 0.0019 seconds.)

`SELECT make, model FROM cars WHERE price < 15000;`

Profiling [ Edit inline ] [ Edit ] [ Explain SQL ] [ Create PHP code ] [ Refresh ]

Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

Extra options

	make	model
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	BMW	X3
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	Holden	Astra
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	Holden	Commodore
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	Holden	Astra
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	Ford	Falcon
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	Ford	Falcon
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	Ford	Laser

Check all | With selected: Edit Copy Delete Export

Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

Query results operations

Print Copy to clipboard Export Display chart Create view

Bookmark this SQL query

Console

Press Ctrl+Enter to execute query

```
>SELECT * FROM cars;
>SELECT make, model, price FROM cars ORDER BY make, model;
>SELECT make, model FROM cars WHERE price >= 20000;
>SELECT make, model FROM cars WHERE price < 15000;
> |
```

## 5. The average prices of cars for similar make

Query: “SELECT make,AVG(price) AS AveragePrice FROM cars GROUP BY make;”

RecentFavorites

New

information\_schema

s103806007\_db

- New
- animal
- car
- cars**
- city
- country
- countrylanguage
- employees
- enclosure
- staff

Showing rows 0 - 3 (4 total, Query took 0.0025 seconds.)

`SELECT make,AVG(price) AS AveragePrice FROM cars GROUP BY make;`

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

☐ Show all | Number of rows: 25 | Filter rows: Search this table

Extra options

make

AveragePrice

<input type="checkbox"/> Edit Copy Delete	BMW	3500
<input type="checkbox"/> Edit Copy Delete	Ford	17500
<input type="checkbox"/> Edit Copy Delete	Holden	15875
<input type="checkbox"/> Edit Copy Delete	Toyota	20000

☐ Check all | With selected: Edit Copy Delete Export

☐ Show all | Number of rows: 25 | Filter rows: Search this table

Query results operations

Print

Copy to clipboard

Export

Display chart

Create view

Bookmark this SQL query

Label:  ☐ Let every user access this bookmark

Bookmark this SQL query

Console

Press Ctrl+Enter to execute query

>SELECT \* FROM cars;

>SELECT make, model, price FROM cars ORDER BY make, model;

>SELECT make, model FROM cars WHERE price >= 20000;

>SELECT make, model FROM cars WHERE price < 15000;

>SELECT make,AVG(price) AS AveragePrice FROM cars GROUP BY make;