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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, a query editor shows the SQL query: `SELECT * FROM `cars``. Below the query editor, there are options for 'Show all', 'Number of rows' (set to 25), and a 'Filter rows' search box. Below these, an 'Extra options' button is visible. The main area displays the table data with 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, including 'information_schema', 's103806007_db', and various tables like 'animal', 'car', 'cars', 'city', 'country', 'countrylanguage', 'employees', 'enclosure', and 'staff'. The 'cars' table is selected. The main panel displays the query results for 'SELECT * FROM cars;'. A green banner at the top indicates 'Showing rows 0 - 9 (10 total, Query took 0.0019 seconds.)'. Below this, the query text is shown. A toolbar offers options like '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' section is also present. The data is presented in a table with columns: car_id, make, model, price, and yom. Each row includes interactive icons for Edit, Copy, and Delete. Below the table, there are 'Check all' and 'With selected' options, along with 'Edit', 'Copy', 'Delete', and 'Export' actions. A second control bar is identical to the one above. At the bottom, a 'Query results operations' section and a 'Console' panel are visible. The console shows the executed query: '>SELECT * FROM cars;'. The data table contains the following records:

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

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

Recent Favorites

- New
- information_schema
- s103806007_db
 - New
 - animal
 - car
 - cars**
 - city
 - country
 - countrylanguage
 - employees
 - enclosure
 - staff

Server: Feenix ManilaDB (MySQL) Database: s103806007_db Table: cars

Browse Structure SQL Search Insert Export Import Operations Tracking

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 Copy Delete	Ford Falcon
<input type="checkbox"/>	Edit Copy Delete	Toyota Corolla
<input type="checkbox"/>	Edit Copy Delete	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.

The main panel shows the results of a SQL query: `SELECT make, model FROM cars WHERE price < 15000;`. The query executed successfully, showing 7 rows. The results are displayed in a table with columns 'make' and 'model':

make	model
BMW	X3
Holden	Astra
Holden	Commodore
Holden	Astra
Ford	Falcon
Ford	Falcon
Ford	Laser

Below the table, there are options for 'Query results operations' including Print, Copy to clipboard, Export, Display chart, and Create view. A 'Console' panel at the bottom shows the executed SQL queries.

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;
```