

## Task 1

The screenshot shows the phpMyAdmin interface for a database named 'xf16650'. The 'CAR' table is selected. The 'Structure' tab is active, displaying the table's schema. The table has 6 columns: car\_id (int(5), primary key, auto-increment), make (varchar(10)), model (varchar(10)), price (int(10)), yom (int(4)), and an unnamed column (int(10)). The table is currently empty (0 rows).

| Field  | Type        | Null | Key | Default | Extra          |
|--------|-------------|------|-----|---------|----------------|
| car_id | int(5)      | NO   | PK  |         | auto_increment |
| make   | varchar(10) | YES  |     |         |                |
| model  | varchar(10) | YES  |     |         |                |
| price  | int(10)     | YES  |     |         |                |
| yom    | int(4)      | YES  |     |         |                |
|        | int(10)     | YES  |     |         |                |

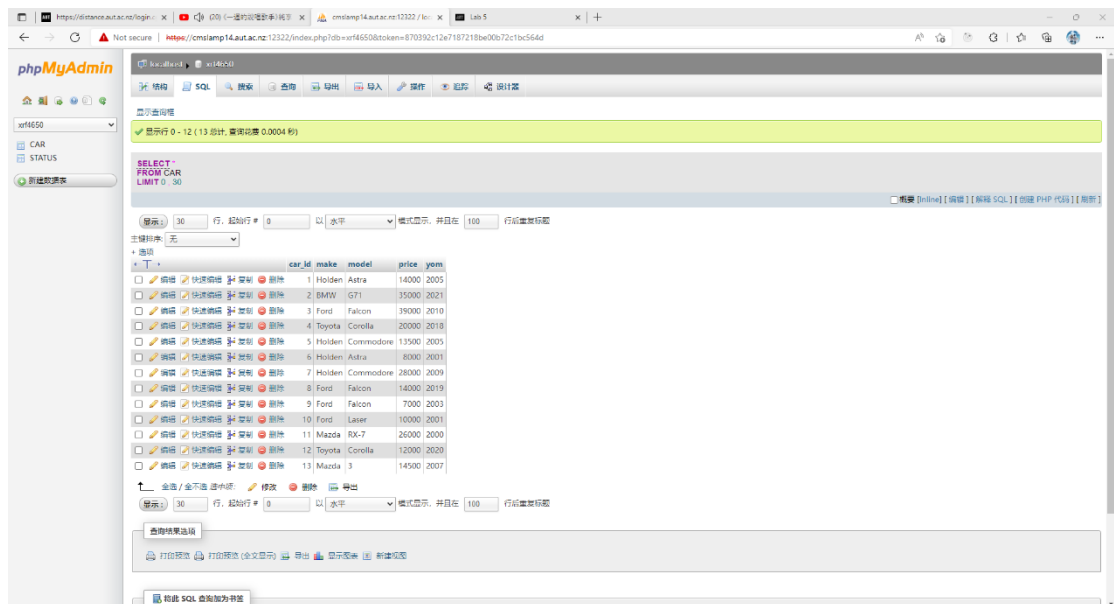
The screenshot shows the phpMyAdmin interface with the same database and table. The 'SQL' tab is active, and a query has been executed. The query is: `SELECT FROM CAR LIMIT 0, 30`. The results are displayed in a table with 6 columns: car\_id, make, model, price, yom, and an unnamed column. The results show 13 rows of data.

| car_id | make   | model     | price | yom  |  |
|--------|--------|-----------|-------|------|--|
| 1      | Holden | Adira     | 14000 | 2005 |  |
| 2      | BMW    | GTI       | 35000 | 2003 |  |
| 3      | Ford   | Falcon    | 39000 | 2010 |  |
| 4      | Toyota | Corolla   | 20000 | 2018 |  |
| 5      | Holden | Commodore | 13500 | 2005 |  |
| 6      | Holden | Adira     | 8000  | 2001 |  |
| 7      | Holden | Commodore | 28000 | 2009 |  |
| 8      | Ford   | Falcon    | 18000 | 2019 |  |
| 9      | Ford   | Falcon    | 7000  | 2003 |  |
| 10     | Ford   | Laser     | 10000 | 2001 |  |
| 11     | Mazda  | RX-7      | 26000 | 2000 |  |
| 12     | Toyota | Corolla   | 12000 | 2020 |  |
| 13     | Mazda  | 3         | 14500 | 2007 |  |

## Task 2

- All records

```
SELECT *  
FROM CAR
```



## SQL 查询结果

主机: localhost

数据库: xrf4650

生成日期: 2022 年 04 月 17 日 13:40

生成者: phpMyAdmin 3.4.11.1deb2+deb7u8 / MySQL 5.5.56-MariaDB-1~wheezy

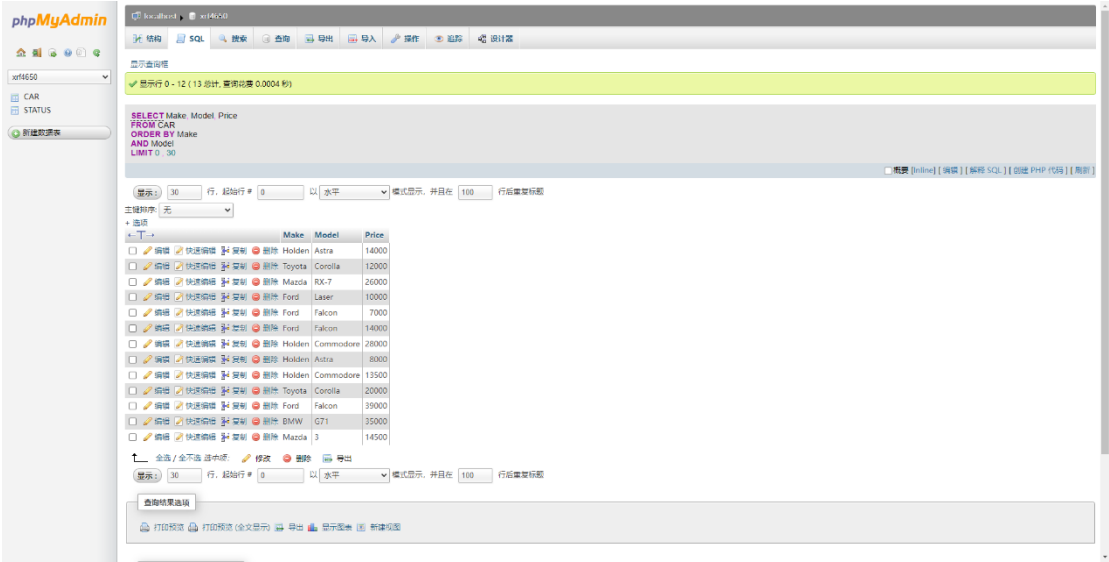
SQL 查询: `SELECT * FROM CAR LIMIT 0, 30 ;`

行数: 13

| car_id | make   | model     | price | yom  |
|--------|--------|-----------|-------|------|
| 1      | Holden | Astra     | 14000 | 2005 |
| 2      | BMW    | G71       | 35000 | 2021 |
| 3      | Ford   | Falcon    | 39000 | 2010 |
| 4      | Toyota | Corolla   | 20000 | 2018 |
| 5      | Holden | Commodore | 13500 | 2005 |
| 6      | Holden | Astra     | 8000  | 2001 |
| 7      | Holden | Commodore | 28000 | 2009 |
| 8      | Ford   | Falcon    | 14000 | 2019 |
| 9      | Ford   | Falcon    | 7000  | 2003 |
| 10     | Ford   | Laser     | 10000 | 2001 |
| 11     | Mazda  | RX-7      | 26000 | 2000 |
| 12     | Toyota | Corolla   | 12000 | 2020 |
| 13     | Mazda  | 3         | 14500 | 2007 |

- Make, model, and price, sorted by make and model

```
SELECT Make, Model, Price
FROM CAR
ORDER BY Make
AND Model
```



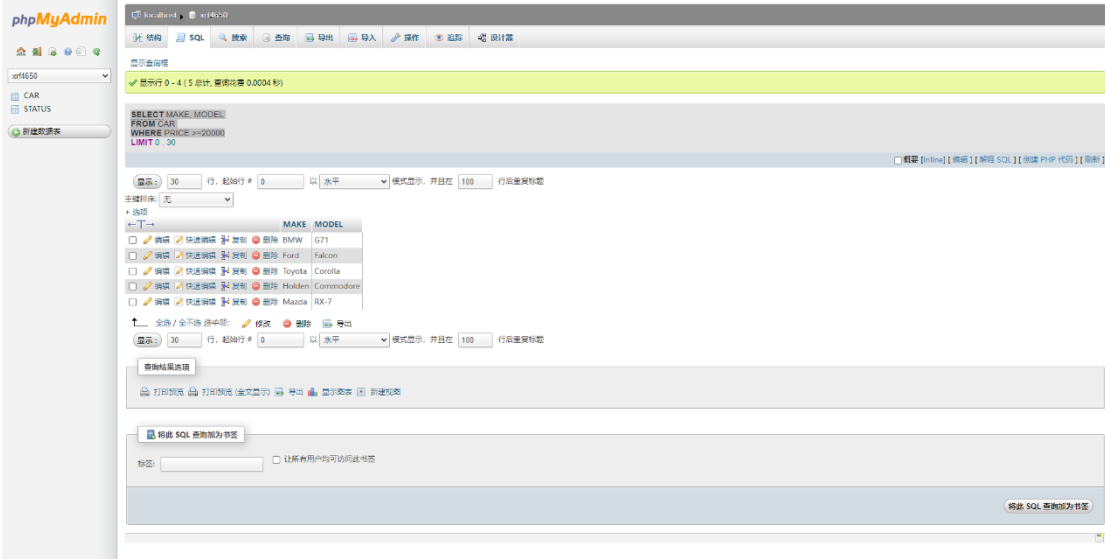
SQL 查询结果

主机: localhost  
数据库: xrf4650  
生成日期: 2022 年 04 月 17 日 14:12  
生成者: phpMyAdmin 3.4.11.1deb2+deb7u8 / MySQL 5.5.56-MariaDB-1~wheezy  
SQL 查询: SELECT Make, Model, Price FROM CAR ORDER BY Make AND Model LIMIT 0, 30 ;  
行数: 13

| Make   | Model     | Price |
|--------|-----------|-------|
| Holden | Astra     | 14000 |
| Toyota | Corolla   | 12000 |
| Mazda  | RX-7      | 26000 |
| Ford   | Laser     | 10000 |
| Ford   | Falcon    | 7000  |
| Ford   | Falcon    | 14000 |
| Holden | Commodore | 28000 |
| Holden | Astra     | 8000  |
| Holden | Commodore | 13500 |
| Toyota | Corolla   | 20000 |
| Ford   | Falcon    | 39000 |
| BMW    | G71       | 35000 |
| Mazda  | 3         | 14500 |

- The make and model of the cars which cost \$20,000 or more.

```
SELECT MAKE, MODEL
FROM CAR
WHERE PRICE >=20000
```



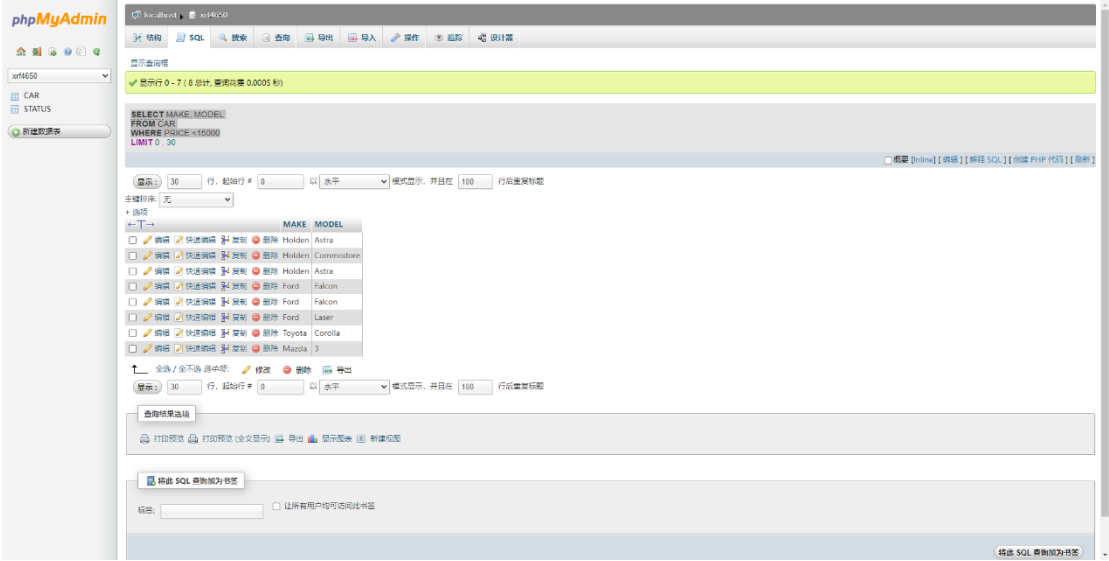
SQL 查询结果

主机: localhost  
数据库: xrf4650  
生成日期: 2022 年 04 月 17 日 14:18  
生成者: phpMyAdmin 3.4.11.1deb2+deb7u8 / MySQL 5.5.56-MariaDB-1~wheezy  
SQL 查询: SELECT MAKE, MODEL FROM CAR WHERE PRICE >=20000 LIMIT 0 , 30;  
行数: 5

| MAKE   | MODEL     |
|--------|-----------|
| BMW    | G71       |
| Ford   | Falcon    |
| Toyota | Corolla   |
| Holden | Commodore |
| Mazda  | RX-7      |

- The make and model of the cars which cost below \$15,000.

```
SELECT MAKE, MODEL
FROM CAR
WHERE PRICE < 15000
```



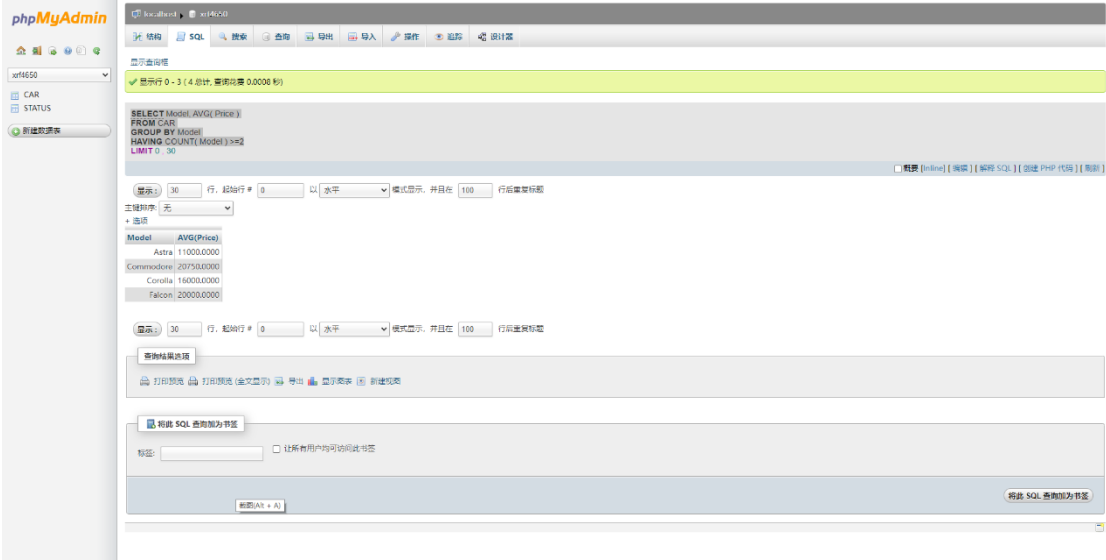
SQL 查询结果

主机: localhost  
数据库: xrf4650  
生成日期: 2022 年 04 月 17 日 14:19  
生成者: phpMyAdmin 3.4.11.1deb2+deb7u8 / MySQL 5.5.56-MariaDB-1~wheezy  
SQL 查询: SELECT MAKE, MODEL FROM CAR WHERE PRICE < 15000 LIMIT 0, 30 ;  
行数: 8

| MAKE   | MODEL     |
|--------|-----------|
| Holden | Astra     |
| Holden | Commodore |
| Holden | Astra     |
| Ford   | Falcon    |
| Ford   | Falcon    |
| Ford   | Laser     |
| Toyota | Corolla   |
| Mazda  | 3         |

- The average price of cars for a similar model. Hint: Use in-built SQL function AVG

```
SELECT Model, AVG( Price )
FROM CAR
GROUP BY Model
HAVING COUNT( Model ) >=2
```



SQL 查询结果

主机: localhost  
数据库: xrf4650  
生成日期: 2022 年 04 月 17 日 14:24  
生成者: phpMyAdmin 3.4.11.1deb2+deb7u8 / MySQL 5.5.56-MariaDB-1~wheezy  
SQL 查询: Select Model, AVG(Price) from CAR group by Model having count(Model)>=2  
LIMIT 0, 30 ;  
行数: 4

| Model     | AVG(Price) |
|-----------|------------|
| Astra     | 11000.0000 |
| Commodore | 20750.0000 |
| Corolla   | 16000.0000 |
| Falcon    | 20000.0000 |