

Student Name: Nguyen Anh Vu

Student ID: 103806007

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 '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;"

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

Query: "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;"

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

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

5. The average prices of cars for similar make

Query: "SELECT make,AVG(price) FROM cars GROUP BY make;"