**DATABASES AND MYSQL**

**Task 1: Creating a Table and Entering Data**

CREATE TABLE cars (

car\_id AUTO\_INCREMENT PRIMARY KEY,

make VARCHAR(10) NOT NULL,

model VARCHAR(10) NOT NULL,

price INT NOT NULL,

yom YEAR NOT NULL

);

INSERT INTO cars VALUES ('Holden', 'Astra', 14000, 2005);

INSERT INTO cars VALUES ('BMW', 'X3', 35000, 2004);

INSERT INTO cars VALUES ('Ford', 'Falcon', 39000, 2011);

INSERT INTO cars VALUES ('Toyota', 'Corolla', 20000, 2012);

INSERT INTO cars VALUES ('Holden', 'Commodore', 13500, 2005);

INSERT INTO cars VALUES ('Holden', 'Astra', 8000, 2001);

INSERT INTO cars VALUES ('Holden', 'Commodore', 28000, 2009);

INSERT INTO cars VALUES ('Ford', 'Falcon', 14000, 2007);

INSERT INTO cars VALUES ('Ford', 'Falcon', 7000, 2003);

INSERT INTO cars VALUES ('Ford', 'Laser', 10000, 2010);

INSERT INTO cars VALUES ('Mazda', 'RX-7', 26000, 2000);

INSERT INTO cars VALUES ('Toyota', 'Corolla', 12000, 2001);

INSERT INTO cars VALUES ('Mazda', '3', 14500, 2009);

**Task 2: Querying the Table**

Write queries that return the following:

1. All records

SELECT \* FROM cars

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

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

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

SELECT make, model FROM cars WHERE price >= 20000

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

SELECT make, model FROM cars WHERE price < 15000

1. The average price of cars for similar make.

SELECT make, AVG(price) AS average\_price FROM cars GROUP BY make