SELECT

* Used to retrieve data from the database. The results can be either directly read from the database or calculated values extracted using various formulas and aggregation.
* Used for when information saved in the database needs to be retrieved for display or processing.
* **SELECT FirstName**  
  **FROM Customer**  
  **WHERE CustomerID = 5;**

UPDATE

* Used to modify or adjust data within the tables of a database, such as changing someone’s name, updating the quantity of a product ordered for a sales order, or updating your final grade for the course.
* **UPDATE Customer**  
  **SET FirstName = 'Shawn'**  
  **WHERE CustomerID = 5;**

DELETE

* Used to remove a record of data from a table, just remember to specify which record to delete so you don’t delete all records from the table.
* **DELETE**  
  **FROM Product**  
  **WHERE ProductID = 16;**

INSERT

* We can’t hand type in all the data that will populate the database. This is where the insert statement comes in. we can insert new records of data, either a single record or bulk records through automated processes, such as the applications/programs you’ll develop in other courses.
* **INSERT INTO Product (ProductID, Name, Model, Description, Price)**  
  **VALUES (80, 'Minions Great Adventure Game', 'Mn-5482SLV', 'The minions are at it again, causing all kinds of mayhem.....can you save them', 19.99);**

Example SQL Statement

**SELECT list of fields name**  
**FROM table name**  
**WHERE conditional checks and filters**  
**ORDER BY list of fields**  
**LIMIT amount of records**

SELECT ModelID, Brand, Model, TopSpeed

FROM model

ORDER BY TopSpeed DESC

SELECT AVG(Salary) AS AverageSalary

FROM remotepilot;

SELECT PASSID, FirstName, LastName

FROM passenger

WHERE State = 'MI'

ORDER BY LastName, FirstName

SELECT ModelID, Brand, Model

FROM model

WHERE TypeID = '2' OR '3'

ORDER BY Brand, Model

SELECT COUNT(strftime('%Y', PickUpTime)) AS Flights2018

FROM flightReservation

WHERE strftime('%Y', PickUpTime) = '2018';

SELECT FlightID, TypeID, PickUpTime

FROM flightReservation

WHERE StatusID = '3'

ORDER BY TypeID, PickUpTime;