CREATE TABLE test(

my\_date DATE,

my\_time TIME,

my\_datetime **DATETIME --** (date and time)

);

INSERT INTO test

**VALUES (CURRENT\_DATE(), CURRENT\_TIME(), NOW()); --** (inserting current date, current time, current datetime)

CREATE TABLE products (

product\_id INT,

product \_ name VARCHAR(25) **UNIQUE**, --(no the same values)

price DECIMAL(4, 2)

);

ALTER TABLE products

**ADD CONSTRAINT --** (adding a constraint to an existing table)

UNIQUE (product\_name); -- (if u forgot to add unique after running)

CREATE TABLE products(

product\_id INT,

product\_name VARCHAR(25),

price DECIMAL (4, 2) **NOT NULL** -- (Values cannot be null)

);

ALTER TABLE products

MODIFY price DECIMAL(4, 2) NOT NULL;

CREATE TABLE employees (

employee\_id INT,

first\_name VARCHAR(50),

last\_name VARCHAR(50),

hourly\_pay DECIMAL(5, 2),

hire\_date DATE,

**CHECK** (hourly\_pay >= 10.00)

);

**CONSTRAINT** chk\_hourly\_pay **CHECK** (hourly\_pay >= 10.00)

* (check as a name)(add alter to check an existing table)

ALTER TABLE employees

**DROP CHECK** chk\_hourly\_pay; -- (drop check constraint)

CREATE TABLE products (

product\_id INT,

product\_name VARCHAR(25),

price DECIMAL(4, 2) **DEFAULT 0** -- (setting the price to zero instead of null)

); -- (default is setting a certain value not to be null)

ALTER TABLE products

ALTER price SET DEFAULT 0; -- (add to existing table)

CREATE TABLE transactions(

transaction id INT,

amount DECIMAL(5, 2),

transaction\_date **DATETIME DEFAULT NOW()**

); -- (set the transaction date automatically)

INSERT INTO transactions (transaction\_id, amount)

VALUES (1, 4.99);

CREATE TABLE transactions(

transaction id **INT PRIMARY KEY**, -- (primary key constraint)

amount DECIMAL(5, 2) -- (column to be unique and not null)

);

ALTER TABLE transactions

ADD CONSTRAINT

PRIMARY KEY(transaction ld); -- (adding primary key to an existing table)

CREATE TABLE transactions (

transaction id INT **PRIMARY KEY AUTO INCREMENT**,

amount DECIMAL (S, 2) --(automatically fills the key column unique values)

);

INSERT INTO transactions (amount)

VALUES (4.99);

ALTER TABLE transactions

**AUTO INCREMENT = l000**; -- (setting auto increment to a specific starting point)

**FOREIGN KEY CONSTRAINT** (primary key in one table that's found within)

(a diff. table.. foreign key in another table)

CREATE TABLE transactions (

transaction id INT PRIMARY KEY AUTO INCREMENT,

amount DECIMAL (5, 2),

customer id INT,

**FOREIGN KEY** (customer\_id) **REFERENCES** customers(customer\_id)

); -- (create a connection between 2 tables)

ALTER TABLE transactions (adding foreign key to an existing table)

**ADD CONSTRAINT fk\_customer\_id** -- (unique name of forein key)

**FOREIGN KEY(customer\_id) REFERENCES customers(customer\_id);**

**JOINS** (combine rows from two or more tables based on a realted column)

(between them such a foreign key)

SELECT \*

FROM transactions **INNER JOIN** customers

**ON** transactions.customer\_id = customers.customer\_id; -- (joins 2 tables in between)

SELECT transaction\_id, amount, first\_name, last\_name

FROM transactions INNER JOIN customers

ON transactions.customer\_id = customers.customer\_id; -- (selecting specific columns from 2 tables)

(**LEFT JOIN** display everything on the left table)

(**RIGHT JOIN** display entire table on the right)