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Course: CMTP 308N Database Systems

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## LAB # 2 CAP database

A. The **Primary key** must contain a unique identifies in each record in a table, must contain unique values and have no null values, a table in a database must only have one primary key with single or multiple fields.

B. The **Candidate key** must qualify as a unique key in a database. In addition, you can also have multiple candidate key in one table and can qualify as a primary key.

C. The **Superkey** must contain a combination of columns and must be identify as row within a database with no duplicate rows.

## My table

Data types or essential for database. Without data type, one cannot define the attributes in a column of a table because each column is meant to hold a specific data types such as, numbers, text, date, time, and many more. For example, the following table I create below is shows over my summer:

```
CREATE TABLE Shows (
Mid
           char(6) not null,
Name
            text,
location
            char(8) not null,
Town
            Text,
zipcode
            int,
primary key(Mid)
);
INSERT INTO shows (Mid, Name, location, Town, zipcode)
 VALUES('m00001', 'The 100', 'Home', 'Poughkeepsie', 12603);
INSERT INTO shows (Mid, Name, location, Town, zipcode)
```

VALUES('m00002', 'The badland', 'Home', 'Poughkeepsie', 12603);

INSERT INTO shows (Mid, Name, location, Town, zipcode ) VALUES('m00003', 'Game of thrones', 'Work', 'Millerton', 12603);

INSERT INTO shows (Mid, Name, location, Town, zipcode) VALUES('m00004', 'College Friends', 'Home', 'Millerton', 12603);

Data Output Explain Messages History					
	mid character(6)	name text	location character(8)	town text	zipcode integer
1	m00001	The 100	home	Poughkeepsie	12603
2	m00002	The badland	home	Poughkeepsie	12603
3	m00003	Game of thrones	work	millerton	12603
4	m00004	College Friends	home	millerton	12603

In my table, I include a primary key with a (char) data type that accepts character strings and fix length. I also include name field with a text data type that only accept strings and a zip code field with the (int) data type that accepts integers. Mid and location field also have NOT NULL meaning that the column cannot have a value. Furthermore, my table also illustrate the following relationship rule: the first normal form, access row by content, and all row must be unique.



