

INTRO TO SQL

CHEAT SHEET

First Normal Form Rules:

Each table cell should hold a single value
Each record needs to be unique (primary key)

Second Normal Form Rules:

Be in 1st NF
Single column Primary Key

Third Normal Form Rules

Be in 2nd NF
Has no "transitive functional dependencies" (changing a non-key column might cause other columns to change)

CREATE

Create New Table

```
CREATE TABLE table_name(  
    Column1 datatype,  
    Column2 datatype  
);
```

Insert Data to a Table

```
INSERT INTO table_name(Column1, Column2)  
VALUES(value1, value2);
```

READ

Selects

```
SELECT Column1, Column2  
FROM table_name;
```

Where

```
WHERE condition;
```

UPDATE

Update Table—Add Column

```
ALTER TABLE table_name  
ADD column_name datatype;
```

Update Table—Drop Column

```
ALTER TABLE table_name  
DROP COLUMN column_name;
```

Update Data

```
UPDATE table_name  
SET column1 = value1, column2 = value2  
WHERE condition;
```

DELETE

Delete Data from Table

```
DELETE FROM table_name WHERE condition;
```

Delete ALL Data from Table

```
DELETE FROM table_name;
```

Delete a Table

```
DROP TABLE table_name;
```

JOINS

