Russia's hack into the US election was surprisingly inexpensive, Mueller report shows

Arjun Kharpal
@ARJUNKHARPAL

SHARE f 🐦 in ✉ •••

KEY POINTS

- Russian hackers used "straightforward" techniques to hack into computer networks for the Democrats' 2016 election campaign, experts told CNBC following the release of special counsel Robert Mueller's report.

- The main method was "spearphishing" where a malicious email is sent to a targeted recipient.

- Experts noted that the hacking and the social media campaigns carried out by Russian internet trolls appeared to require limited resources.

TRENDING NOW

1 **Elon Musk emailed employees about how great Tesla's autonomy day was, but the plan has lots of holes**

2 **Kohl's is going to accept Amazon returns in all of its stores across**

https://www.cnbc.com/2019/04/23/mueller-report-russia-hack-of-us-elections-apparently-inexpensive.html

It wasn't just Clinton's campaign the GRU attempted to hack, it was also the computer systems containing voter information. In one instance, the Russian hacking group used a technique known as "SQL injection" to compromise the computer network of the Illinois State Board of Elections. An SQL injection involves a piece of malicious code that is able to extract information from a database. In this way, the GRU got data related to "thousands of U.S. voters," according to the Mueller report.

An SQL injection is another common and well-known type of hacking attack.
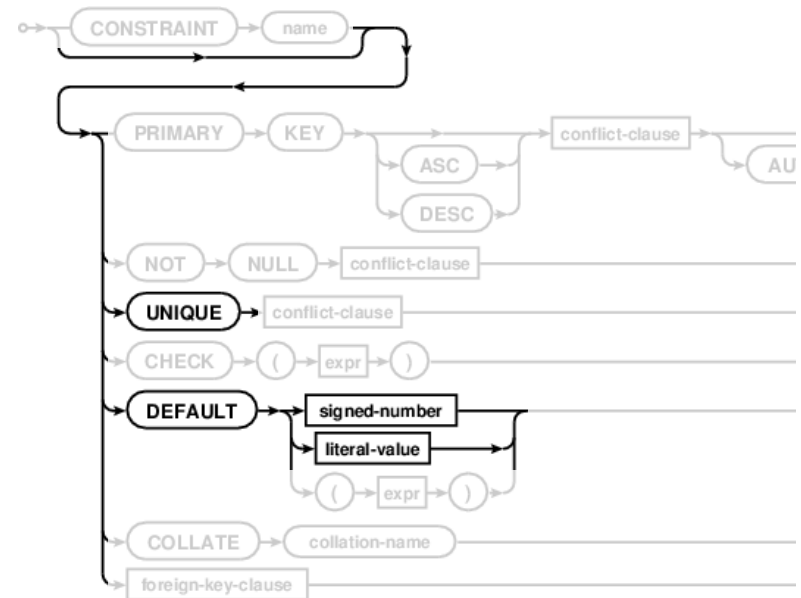
Create Table

CREATE TABLE expression syntax:

column-def:
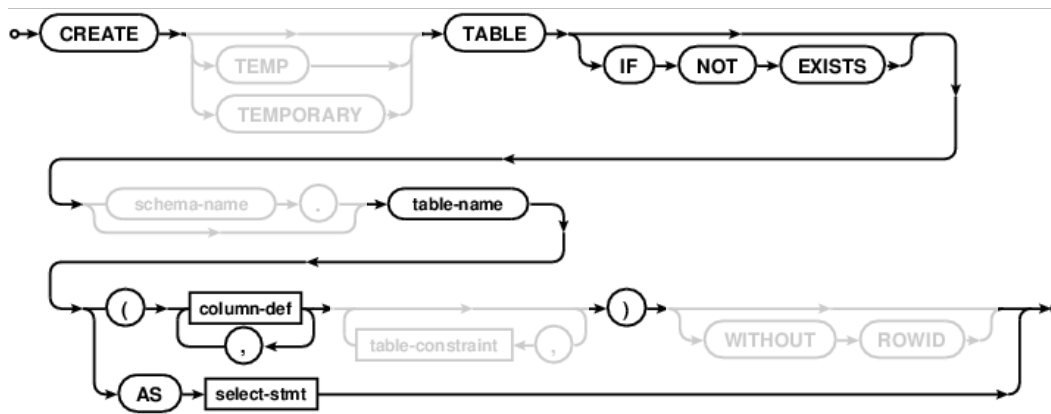
column-constraint:

Examples:

```
CREATE TABLE numbers (n, note);
CREATE TABLE numbers (n UNIQUE, note);
CREATE TABLE numbers (n, note DEFAULT "No comment");
```
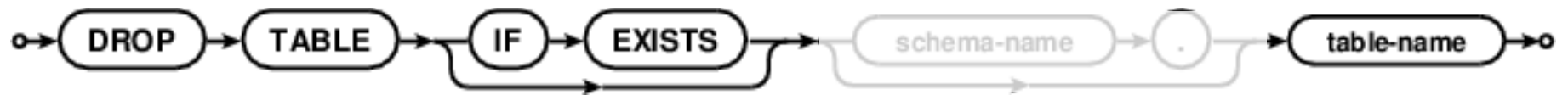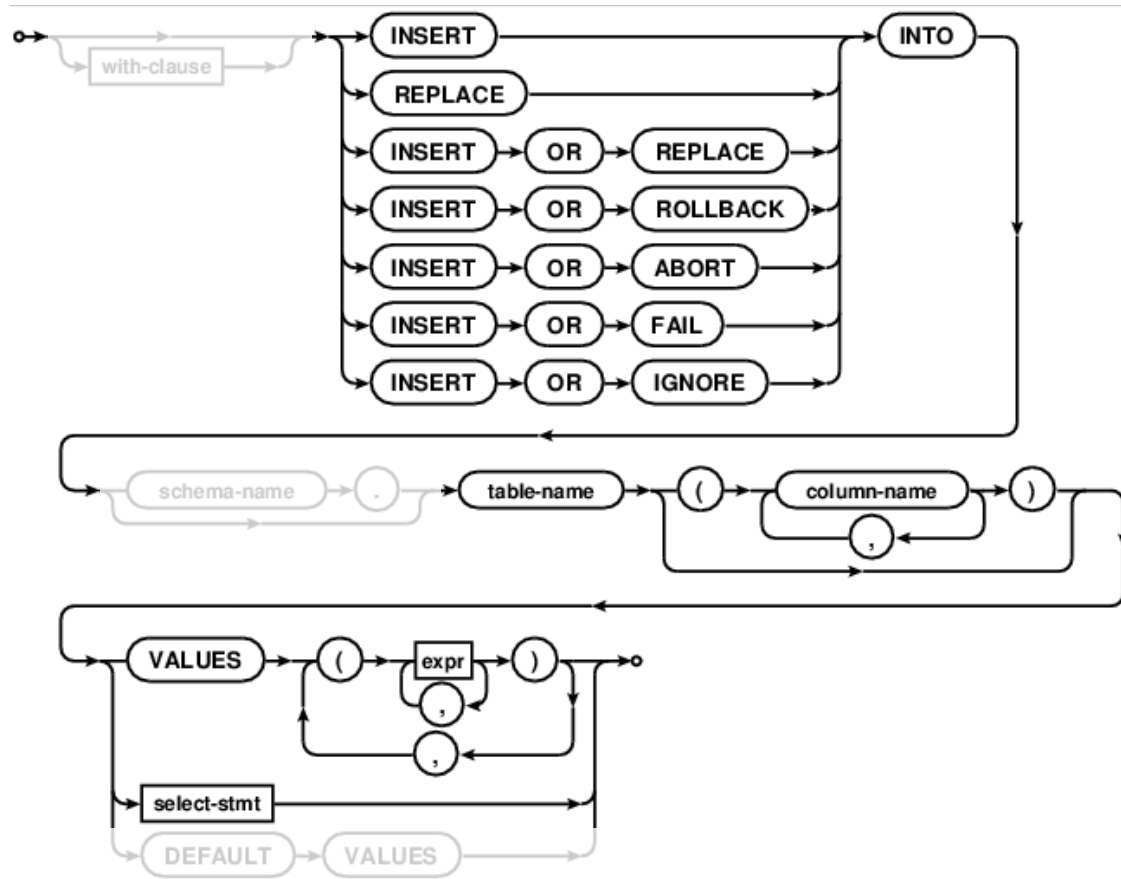
Drop Table

Insert

For a table t with two columns...

To insert into one column:

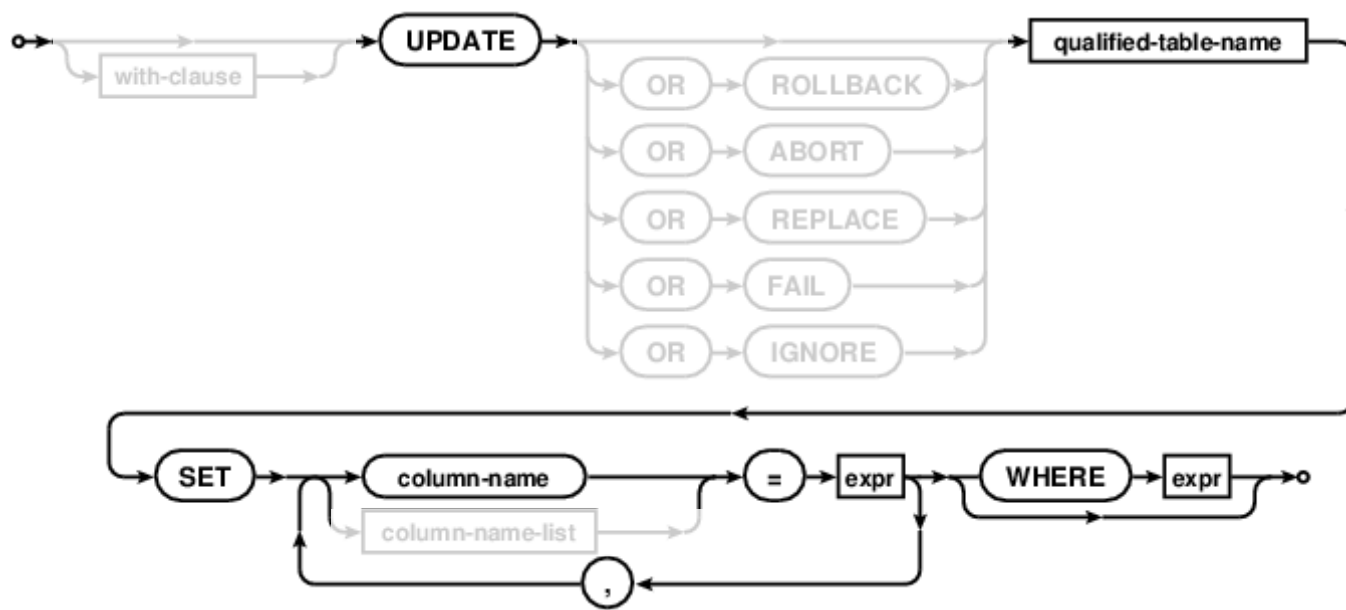```
INSERT INTO t(column) VALUES (value);
```

To insert into both columns:

```
INSERT INTO t VALUES (value0, value1);
```
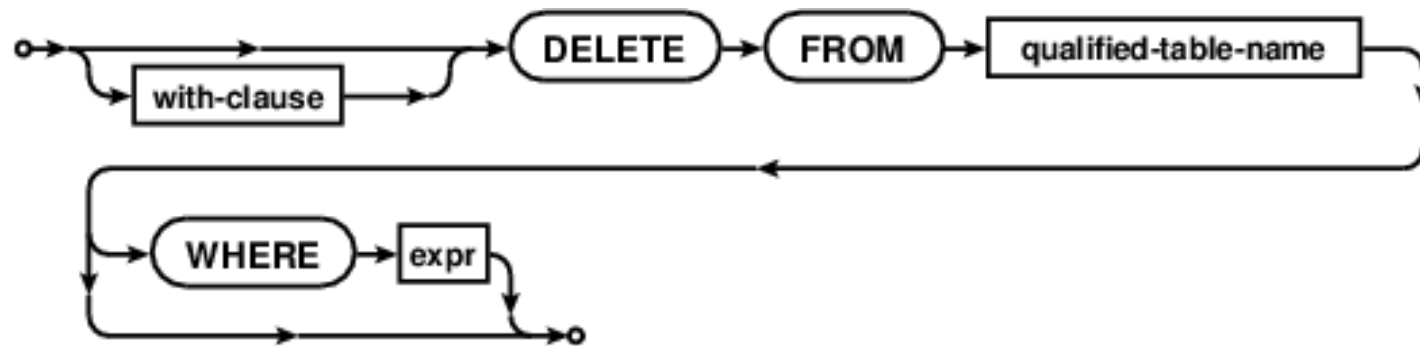
(Demo)

# Update



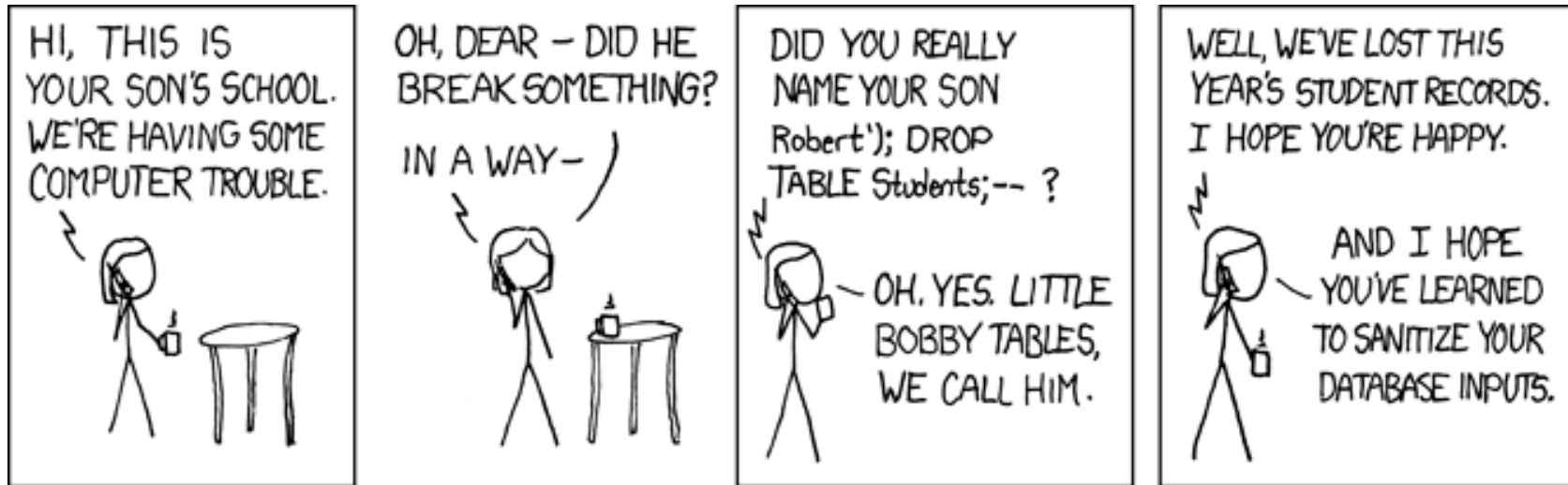Update sets all entries in certain columns to new values, just for some subset of rows.

# Delete



Delete removes some or all rows from a table.

(Demo)

# A Program Vulnerable to a SQL Injection Attack
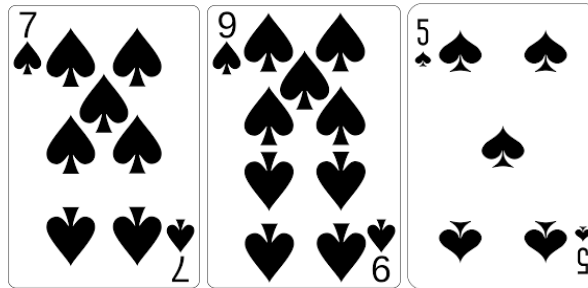


```
db.executescript(cmd)    db.execute("INSERT INTO Students VALUES (?)", [name])
```

INSERT INTO Students VALUES ('Robert''); DROP TABLE Students; --');

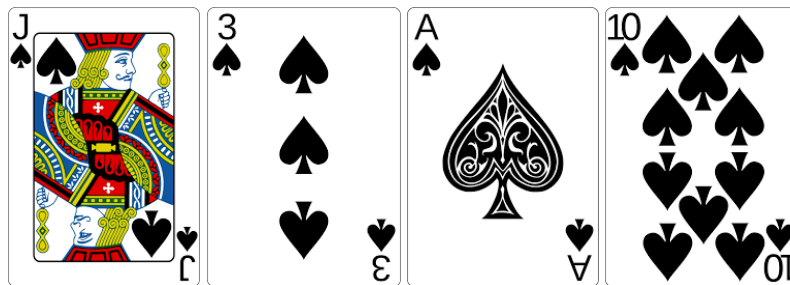INSERT INTO Students VALUES ('Robert'); DROP TABLE Students; --');

https://xkcd.com/327/

Casino Blackjack

Player:

(Demo)

Dealer: