INFM737 START Final Presentation

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MIM Capstone Experience INFM 737

What is START?

National Consortium for the Study of Terrorism and Responses to Terrorism

"A university-based research and education center comprised of an international network of scholars committed to the scientific study of the causes and human consequences of terrorism in the United States and around the world."

Our Clients

Elizabeth Radziszewski
SR Researcher/Project Lead

Sean Thomas Doody
SR Researcher/Tech Lead

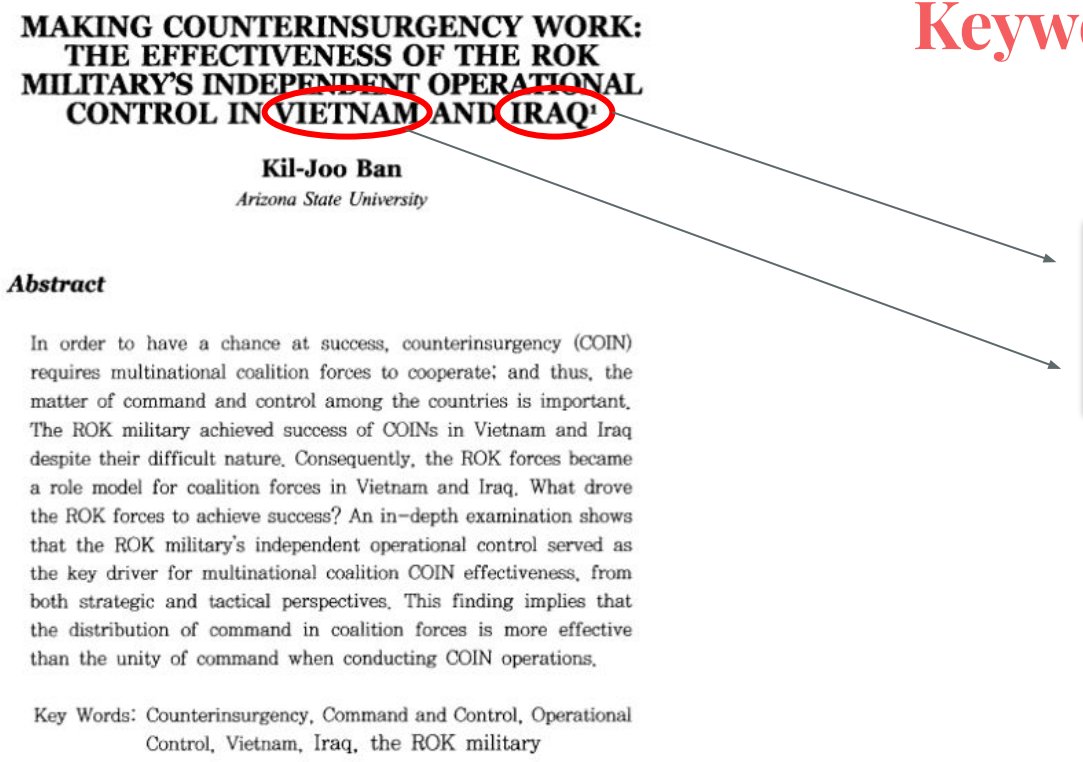
Stakeholder(s)
Department of Defense (DoD)

Users: Researchers in same field / General Public

Our Problem

Designing and implementing a system that allows their website to share their work

Keywords to Variables



MAKING COUNTERINSURGENCY WORK: THE EFFECTIVENESS OF THE ROK MILITARY'S INDEPENDENT OPERATIONAL CONTROL IN VIETNAM AND IRAQ[1]

Kil-Joo Ban
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Abstract

In order to have a chance at success, counterinsurgency (COIN) requires multinational coalition forces to cooperate; and thus, the matter of command and control among the countries is important. The ROK military achieved success of COINs in Vietnam and Iraq despite their difficult nature. Consequently, the ROK forces became a role model for coalition forces in Vietnam and Iraq. What drove the ROK forces to achieve success? An in-depth examination shows that the ROK military's independent operational control served as the key driver for multinational coalition COIN effectiveness, from both strategic and tactical perspectives. This finding implies that the distribution of command in coalition forces is more effective than the unity of command when conducting COIN operations.

Key Words: Counterinsurgency, Command and Control, Operational Control, Vietnam, Iraq, the ROK military

Ungeo-145, Dodgeo-2

Ungeo-035, Dodgeo-4

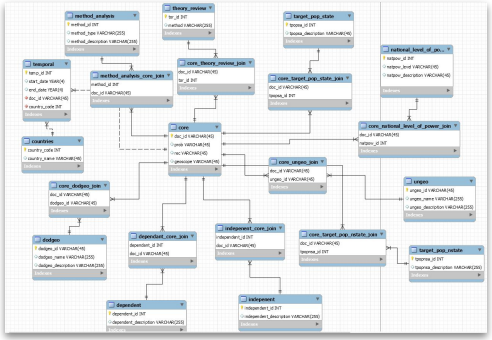
Understanding the Data and Formulating a Plan

What is the best database structure?

Picking a SaaS (server as a service) provider

Database Development

50+
COLUMNS



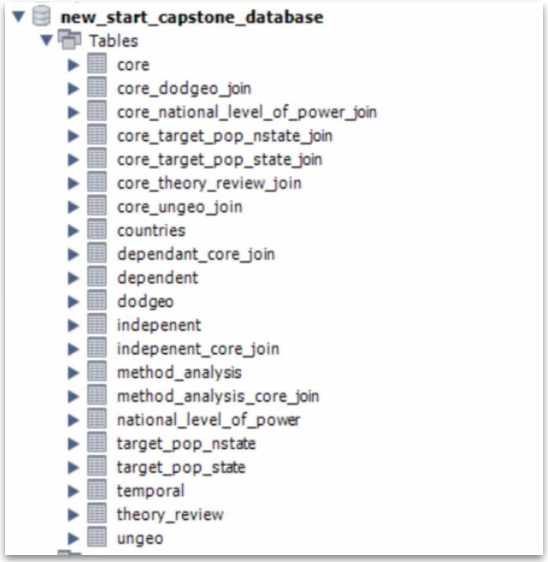
Creating a ERD

Normalizing to the third normal form

Transforming and Loading our Data

De-dummyfying/De-one hot encoding columns

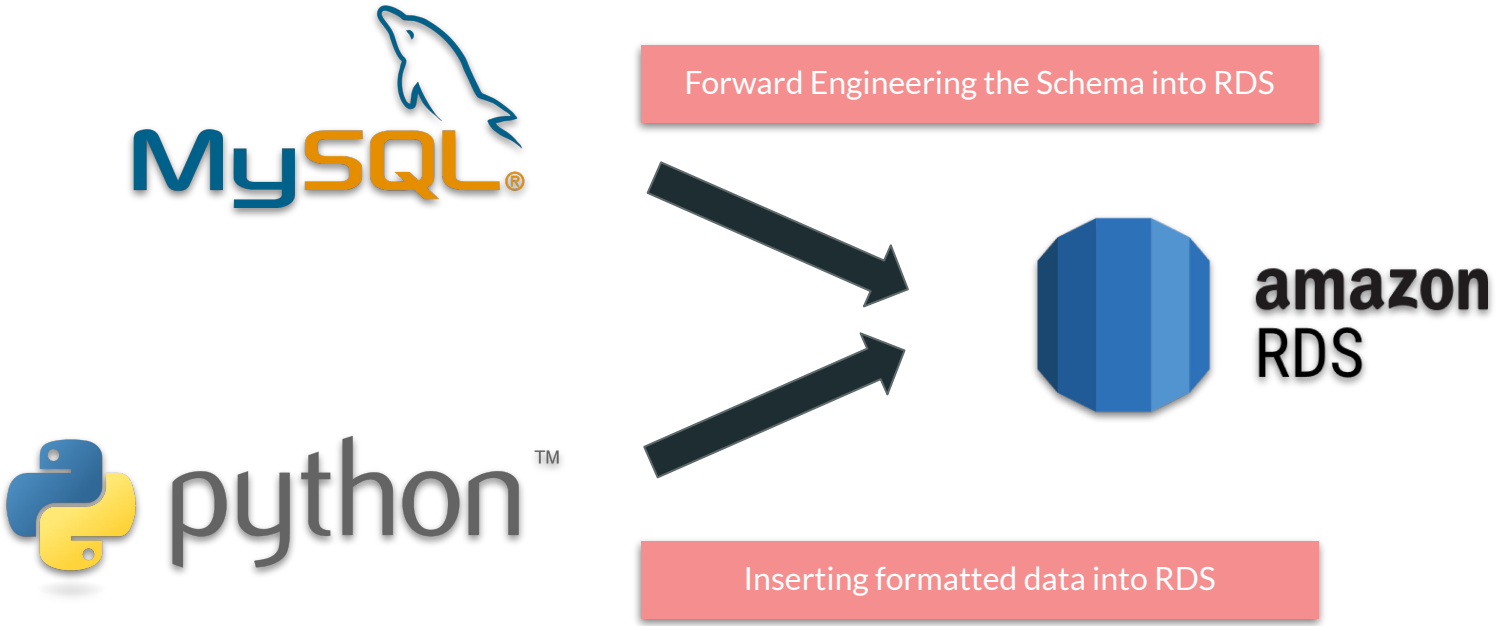
Going from a single table to multiple



Automating table imports

Dealing with import limiters

Our Solution Plan



The Results

Our RDS MySQL database offers our clients' website the capability to establish connections and perform efficient data querying.

```
1  use mydb;
2
3  select c.doc_id, c.geoscope, d.dodgeo_name, m.method_type, tpopnsa_description
4  from core c
5  join core_dodgeo_join using(doc_id)
6  join dodgeo d using(dodgeo_id)
7  join core_method_analysis_join using(doc_id)
8  join method_analysis m using(method_id)
9  join core_target_pop_nstate_join using(doc_id)
10 join target_pop_nstate using(tpopnsa_id)
11 where dodgeo_name = 'INDOPACOM' and method_type = 'QUAL' and tpopnsa_id = 4
12
```

doc_id	geoscope	dodgeo_name	method_ty...	tpopnsa_description
2WGRIYNB	2	INDOPACOM	QUAL	CONSTIT (constituents, target is the population…
3PM9LEXY	2	INDOPACOM	QUAL	CONSTIT (constituents, target is the population…
4PXCB8IP	1	INDOPACOM	QUAL	CONSTIT (constituents, target is the population…
5P73HYA5	3	INDOPACOM	QUAL	CONSTIT (constituents, target is the population…
7748SRYZ	2	INDOPACOM	QUAL	CONSTIT (constituents, target is the population…
77LZ3YQV	2	INDOPACOM	QUAL	CONSTIT (constituents, target is the population…
78EGRHLI	2	INDOPACOM	QUAL	CONSTIT (constituents, target is the population…
7FGTQ6ZR	-99	INDOPACOM	QUAL	CONSTIT (constituents, target is the population…
88SAJ5TQ	1	INDOPACOM	QUAL	CONSTIT (constituents, target is the population…
8HPIR9GQ	1	INDOPACOM	QUAL	CONSTIT (constituents, target is the population…
9ITEXDVU	4	INDOPACOM	QUAL	CONSTIT (constituents, target is the population…

Queried from Amazon RDS

Next Steps/Future Plans

- Implementing an update feature on the script for new entries
- Expand the database to contain all of their original columns
- Connecting the back-end database to the front end website

amazon
RDS

Questions?

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