

World of the galaxy of  
the hero fight to the villain

SEC.4 Thursday

13:00 - 17:00

6104062661037 Thanadol Daphiodee

6104062661045 Worrakrit Wudhiphan

6104062661088 Theerasak Prapakornwanichakun

6104062661118 Chonlasit Tawornying

6104062663030 Pantawit Burasirirak

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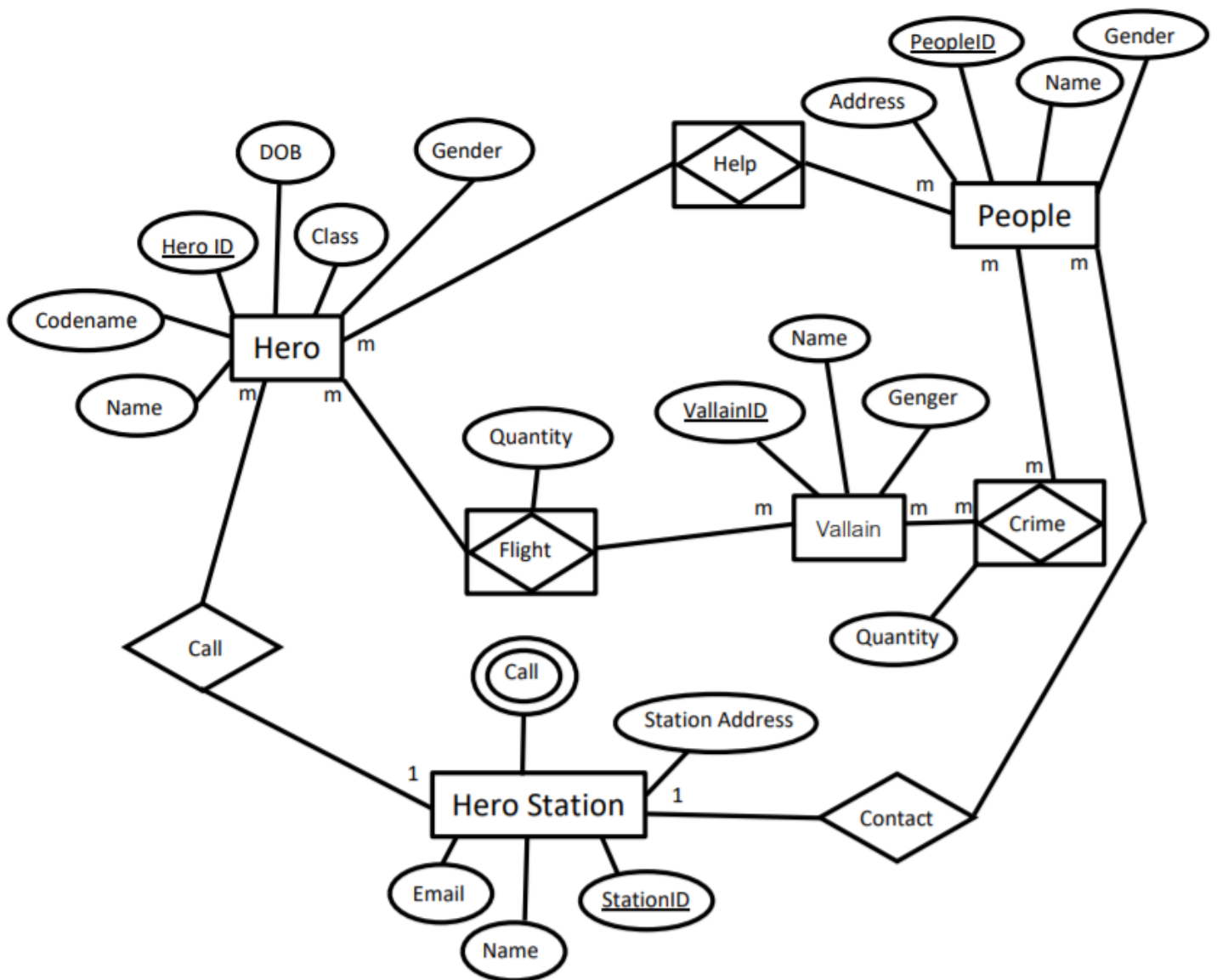
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## STORY

Somewhere in space have a one planet called "Earth4765", Is a land of human

A human called "hero" use there special ability to help many peoples. Sometime many hero have to help just one person in case like a president got kidnap. Hero is a normal person that have a special ability so that mean they have normally information like HeroID DOB ClassGender CodeName and Name. When people in a emergency situation, they have to contact a Hero station for help. In a day Hero station got a lot of contact from people but one people can get help by only one station this is a rules. Many Hero belong to a Hero Station and Hero was called by hero station when a criminal happening. Many people have a information like Name, Address, Gender. Hero Station located on every capitals and have Address, Tel, Email, StationID for help people and save the world. Vallain is normal bad people that mean they have a vallainID, Name, Gender like a normal people. Villain want to dominate the world so all of the vallian crime to people and then heroes have to fight them. Many heros fight many vallian, And sometimes many of vallian fight to one hero. It's been like this for a long time. In first case in the world villain gang crime to one people who name "Joe", It is sad that Joe died. Then second case just only one vallian jail a many people in a hospital, But in this time first hero named "Supermama" can saved.

## ER DIAGRAM



## REATINAL SCHEMA

### First normal form

### Second Normal form

Hero(hID,hCodeName,hDOB,hGender,hClass,StationId);

-FK:StaionID เชื่อมกับ StationID ของ HeroStation

People(pID,pName,pGender,pAddress,StationID);

-FK:StationID เชื่อมกับ StationID ของ HeroStation

Villain(vID,vName,vGender,pID);

-FK:Nothing

HeroStation(StationID,hsName,hsEmail,hsAddress);

-FK:Nothing

### Third Normal form

Hero(hCodeName,hName,hDOB,hGender,hClass);

-FK:Nothing

Hero(hCodeName,hID,StationID);

-FK:StaionID เชื่อมกับ StationID ของ HeroStation

People(pName,pAddress,StationID);

-FK:StaionID เชื่อมกับ StationID ของ HeroStation

People(pID,pGender,StationID);

-FK:StaionID เชื่อมกับ StationID ของ HeroStation

Villain(pID,vName);

-FK:Nothing

Villain(vID,vName,vGender);

-FK:Nothing

HeroStation(hsName,hsAddress);

-FK:Nothing

HeroStation(StationID,hsEmail,hsAddress);

-FK:Nothing

First Normal Form

Second Normal Form

<u>hID</u>	hName	hCodeName	hDOB	hGender	hClass	StationID
1	Kraken	Superman	15.07.1967	Male	S	A01
2	Somchai	Batman	21.01.1989	Male	B	A01
3	Adisak	The Flash	07.11.1968	Male	B	A02
4	Somsi	Cat Women	02.01.1979	Female	A	null
5	Kadok	Thor	30.12.1975	Male	S	C08
6	Christina	Wonder Women	20.02.1976	Female	B	A01
7	Na	Hulk	07.07.1971	Male	A	B02
8	Todd	Ant Man	06.06.1981	Male	C	B01
9	Padthai	Natacha	12.05.1999	Male	C	B02
10	Iam	Groot	23.02.1988	Male	A	B01

Third Normal Form

hName	<u>hCodeName</u>	hDOB	hGenger	hClass
Kraken	Superman	15.07.1967	Male	S
Somchai	Batman	21.01.1989	Male	B
Adisak	The Flash	07.11.1968	Male	B
Somsi	Cat Women	02.01.1979	Female	A
Kadok	Thor	30.12.1975	Male	S
Christina	Wonder Women	20.02.1976	Female	B
Na	Hulk	07.07.1971	Male	A
Todd	Ant Man	06.06.1981	Male	C
Padthai	Natacha	12.05.1999	Male	C
Iam	Groot	23.02.1988	Male	A

<u>hID</u>	<u>hCodeName</u>	StationID
1	Superman	A01
2	Batman	A01
3	The Flash	A02
4	Cat Women	null
5	Thor	C08
6	Wonder Women	A01
7	Hulk	B02
8	Ant Man	B01
9	Natacha	B02
10	Groot	B01

First Normal Form

Second Normal Form

hsName	hsEmail	hsAddress	<u>StationID</u>
Ant	<a href="mailto:chris_01@hotmail.com">chris_01@hotmail.com</a>	11 Kinkai Rd, Vietnam	A01
Bear	<a href="mailto:kadis_kk@hotmail.com">kadis_kk@hotmail.com</a>	22222 Kinjai St, China	A02
Bat	<a href="mailto:gern_pp@hotmail.com">gern_pp@hotmail.com</a>	333 Padlom Rd, Kana	A03
Cock	<a href="mailto:lome_link@hotmail.com">lome_link@hotmail.com</a>	4444 Sukumvit Rd, London	B01
Crab	<a href="mailto:buff01_lonh@hotmail.com">buff01_lonh@hotmail.com</a>	55 Tiger St, Thai	B02
Dog	<a href="mailto:gonenabe_11@hotmail.com">gonenabe_11@hotmail.com</a>	66 Cafe St, Kuwait	B03
Duck	<a href="mailto:torsak_spk@hotmail.com">torsak_spk@hotmail.com</a>	77 Drake Rd, Syris	C01
Fox	<a href="mailto:cat1123_kiki@hotmail.com">cat1123_kiki@hotmail.com</a>	88 Disto St, Nepal	C02
Koala	<a href="mailto:pater_kab@hotmail.com">pater_kab@hotmail.com</a>	99 Arcus Rd, Oman	C03
Ox	<a href="mailto:kora_mars@hotmail.com">kora_mars@hotmail.com</a>	0000 Mika Rd, Laos	C08

Third Normal Form

<u>hsName</u>	hsAddress
Ant	11 Kinkai Rd, Vietnam
Bear	22222 Kinjai St, China
Bat	333 Padlom Rd, Kana
Cock	4444 Sukumvit Rd, London
Crab	55 Tiger St, Thai
Dog	66 Cafe St, Kuwait
Duck	77 Drake Rd, Syris
Fox	88 Disto St, Nepal
Koala	99 Arcus Rd, Oman
Ox	0000 Mika Rd, Laos

hsEmail	hsAddress	<u>StationID</u>
<a href="mailto:chris_01@hotmail.com">chris_01@hotmail.com</a>	11 Kinkai Rd, Vietnam	A01
<a href="mailto:kadis_kk@hotmail.com">kadis_kk@hotmail.com</a>	22222 Kinjai St, China	A02
<a href="mailto:gern_pp@hotmail.com">gern_pp@hotmail.com</a>	333 Padlom Rd, Kana	A03
<a href="mailto:lome_link@hotmail.com">lome_link@hotmail.com</a>	4444 Sukumvit Rd, London	B01
<a href="mailto:buff01_lonh@hotmail.com">buff01_lonh@hotmail.com</a>	55 Tiger St, Thai	B02
<a href="mailto:gonenabe_11@hotmail.com">gonenabe_11@hotmail.com</a>	66 Cafe St, Kuwait	B03
<a href="mailto:torsak_spk@hotmail.com">torsak_spk@hotmail.com</a>	77 Drake Rd, Syris	C01
<a href="mailto:cat1123_kiki@hotmail.com">cat1123_kiki@hotmail.com</a>	88 Disto St, Nepal	C02
<a href="mailto:pater_kab@hotmail.com">pater_kab@hotmail.com</a>	99 Arcus Rd, Oman	C03
<a href="mailto:kora_mars@hotmail.com">kora_mars@hotmail.com</a>	0000 Mika Rd, Laos	C08

First Normal Form

Second Normal Form

<u>pID</u>	pName	pGender	pAddress	StationID
001	Somsak	Male	1373 Rub Rd, London	B01
105	Chaiyut	Male	21 Eiei Rd, London	B01
237	Parena	Female	69 Fake Rd, Vietnam	A01
312	Kingsoyer	Male	77 Mamee St, Thai	B02
455	Prault	Male	9992 Kaidee Rd, Laos	C08
623	Yingluk	Female	76728 Saifai St, China	A02
757	Yingza	Female	10 Ramkam Rd, Thai	B02
808	Suphan	Male	87 Phukka Rd, Vietnam	A01
971	Malee	Male	72 Mamai St, Thai	B02
010	Papen	Female	67 Lamphong Rd, Vietnam	A01

Third Normal Form

<u>pName</u>	pAddress	StationID
Somsak	1373 Rub Rd, London	B01
Chaiyut	21 Eiei Rd, London	B01
Parena	69 Fake Rd, Vietnam	A01
Kingsoyer	77 Mamee St, Thai	B02
Prault	9992 Kaidee Rd, Laos	C08
Yingluk	76728 Saifai St, China	A02
Yingza	10 Ramkam Rd, Thai	B02
Suphan	87 Phukka Rd, Vietnam	A01
Malee	72 Mamai St, Thai	B02
Papen	67 Lamphong Rd, Vietnam	A01

<u>pID</u>	pGender	StationID
001	Male	B01
105	Male	B01
237	Female	A01
312	Male	B02
455	Male	C08
623	Female	A02
757	Female	B02
808	Male	A01
971	Male	B02
010	Female	A01



First Normal Form

Second Normal Form

<u>vID</u>	vName	Vgender	pID
v01	Venom	Male	237
v02	Bigtu	Male	105
v03	Samhon	Female	455
v04	Bigdang	Male	757
v05	Kainui	Female	312
v06	Nomnom	Female	971
v07	Bigberm	Male	808
v08	Kaija	Male	001
v09	Nangfha	Female	010
v10	Pussa	Female	623

Third Normal Form

vName	<u>pID</u>
Venom	237
Bigtu	105
Samhon	455
Bigdang	757
Kainui	312
Nomnom	971
Bigberm	808
Kaija	001
Nangfha	010
Pussa	623

<u>vID</u>	vName	Vgender
v01	Venom	Male
v02	Bigtu	Male
v03	Samhon	Female
v04	Bigdang	Male
v05	Kainui	Female
v06	Nomnom	Female
v07	Bigberm	Male
v08	Kaija	Male
v09	Nangfha	Female
v10	Pussa	Female

## Data Dictionary

TABLE NAME	ATTRIBUTE NAME	CONTENTS	TYPE	FORMAT	RANGE	REQUIRED	PK OR FK	FK REFERENCED TABLE
Hero	hID	HeroID	NUMBER(1)	x	0-10	Y	PK	
	hName	HeroName	CHAR(9)	xxxxxxxxx		Y		
	hCodeName	HeroCodeName	CHAR(12)	xxxxxxxxxxxxx		Y		
	hDOB	Herodateofbirth	DATE	dd.mm.yyyy				
	hGender	HeroGender	CHAR(5)	xxxxx				
	hClass	HeroClass	CHAR(1)	x				
	StationID	StationID	CHAR(3)	xxx		Y	FK	HeroStation
Herostation	hsName	HerostationName	CHAR(5)	xxxxx		Y		
	hsEmail	HerostationEmail	CHAR(23)	Xxxxxxxxxx				
	hsAddress	HerostationAddress	CHAR(24)	Xxxxxxxxxx				
	StationID	StationID	CHAR(3)	xxx		Y	PK	
People	pID	PeopleID	NUMBER(3)	xxx	0-1000	Y	PK	
	pName	PeopleName	CHAR(9)	Xxxxxxxxxx		Y		
	pGender	PeopleGender	CHAR(5)	xxxxx		Y		
	pAddress	PeopleAddress	CHAR(23)	Xxxxxxxxxx				
	StationID	StationID	CHAR(3)	xxx		Y		
Vallein	vID	ValleinID	CHAR(3)	xxx		Y	PK	
	vName	ValleinName	CHAR(7)	xxxxxxx		Y		
	vGender	ValleinGender	CHAR(5)	xxxxx				
	pID	PeopleID	CHAR(3)	xxx		Y		

pID	pName	pGender	pAddress	StationID
001	Somsak	Male	1373 Rub Rd, London	B01
105	Chaiyut	Male	21 Eiei Rd, London	B01
237	Parena	Female	69 Fake Rd, Vietnam	A01
312	Kingsoyer	Male	77 Mamee St, Thai	B02
455	Prault	Male	9992 Kaidee Rd, Laos	C08
623	Yingluk	Female	76728 Saifai St, China	A02
757	Yingza	Female	10 Ramkam Rd, Thai	B02
808	Suphan	Male	87 Phukka Rd, Vietnam	A01
971	Malee	Male	72 Mamai St, Thai	B02
010	Papen	Female	67 Lamphong Rd, Vietnam	A01

$\sigma_{pGender=Female}(\textit{people})$

pID	pName	pGender	pAddress	StationID
237	Parena	Female	69 Fake Rd, Vietnam	A01
623	Yingluk	Female	76728 Saifai St, China	A02
757	Yingza	Female	10 Ramkam Rd, Vietnam	B02
010	Papen	Female	69 Lamphong Rd, Vietnam	A01

hsName	hsEmail	hsAddress	StationID
Ant	<a href="mailto:chris_01@hotmail.com">chris_01@hotmail.com</a>	11 Kinkai Rd, Vietnam	A01
Bear	<a href="mailto:kadis_kk@hotmail.com">kadis_kk@hotmail.com</a>	22222 Kinjai St, China	A02
Bat	<a href="mailto:gern_pp@hotmail.com">gern_pp@hotmail.com</a>	333 Padlom Rd, Kana	A03
Cock	<a href="mailto:lome_link@hotmail.com">lome_link@hotmail.com</a>	4444 Sukumvit Rd, London	B01
Crab	<a href="mailto:buff01_lonh@hotmail.com">buff01_lonh@hotmail.com</a>	55 Tiger St, Thai	B02
Dog	<a href="mailto:gonenabe_11@hotmail.com">gonenabe_11@hotmail.com</a>	66 Cafe St, Kuwait	B03
Duck	<a href="mailto:torsak_spk@hotmail.com">torsak_spk@hotmail.com</a>	77 Drake Rd, Syris	C01
Fox	<a href="mailto:cat1123_kiki@hotmail.com">cat1123_kiki@hotmail.com</a>	88 Disto St, Nepal	C02
Koala	<a href="mailto:pater_kab@hotmail.com">pater_kab@hotmail.com</a>	99 Arcus Rd, Oman	C03
Ox	<a href="mailto:kora_mars@hotmail.com">kora_mars@hotmail.com</a>	0000 Mika Rd, Laos	C08

$\pi_{hsName, StationID}(herostation)$

hsName	StationID
Ant	A01
Bear	A02
Bat	A03
Cock	B01
Crab	B02
Dog	B03
Duck	C01
Fox	C02
Koala	C03
Ox	C08

hsName	hsEmail	hsAddress	StationID
Ant	<a href="mailto:chris_01@hotmail.com">chris_01@hotmail.com</a>	11 Kinkai Rd, Vietnam	A01
Bear	<a href="mailto:kadis_kk@hotmail.com">kadis_kk@hotmail.com</a>	22222 Kinjai St, China	A02
Bat	<a href="mailto:gem_pp@hotmail.com">gem_pp@hotmail.com</a>	333 Padlom Rd, Kana	A03
Cock	<a href="mailto:lome_link@hotmail.com">lome_link@hotmail.com</a>	4444 Sukumvit Rd, London	B01
Crab	<a href="mailto:buff01_lonh@hotmail.com">buff01_lonh@hotmail.com</a>	55 Tiger St, Thai	B02
Dog	<a href="mailto:gonenabe_11@hotmail.com">gonenabe_11@hotmail.com</a>	66 Cafe St, Kuwait	B03
Duck	<a href="mailto:torsak_spk@hotmail.com">torsak_spk@hotmail.com</a>	77 Drake Rd, Syris	C01
Fox	<a href="mailto:cat1123_kiki@hotmail.com">cat1123_kiki@hotmail.com</a>	88 Disto St, Nepal	C02
Koala	<a href="mailto:pater_kab@hotmail.com">pater_kab@hotmail.com</a>	99 Arcus Rd, Oman	C03
Ox	<a href="mailto:kora_mars@hotmail.com">kora_mars@hotmail.com</a>	0000 Mika Rd, Laos	C08

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3	Adisak	The Flash	07.11.1968	Male	B	A02
4	Somsi	Cat Women	02.01.1979	Female	A	null
5	Kadok	Thor	30.12.1975	Male	S	C08
6	Christina	Wonder Women	20.02.1976	Female	B	A01
7	Na	Hulk	07.07.1971	Male	A	B02
8	Todd	Ant Man	06.06.1981	Male	C	B01
9	Padthai	Natacha	12.05.1999	Male	C	B02
10	Iam	Groot	23.02.1988	Male	A	B01

Find codename of hero who live in station name Ox

$$\pi_{hcodeName}((\sigma_{StationID=C08} \text{HeroStation})) \bowtie_{hs.stationID=H.stationID} \text{Hero}$$

<b>hcodeName</b>
------------------

Thor
------

What Herostation Email of people who attacked by vallien name Bigtu?

$$\pi_{hsmail}(\pi_{stationID}(\pi_{pID\sigma_{vname=Bigtu}Vallain}) \bowtie_{p.pID=v.pID}people) \bowtie_{hs.stationID=p.stationID}Herostation$$

hsName	hsEmail	hsAddress	StationID
Ant	<a href="mailto:chris_01@hotmail.com">chris_01@hotmail.com</a>	11 Kinkai Rd, Vietnam	A01
Bear	<a href="mailto:kadis_kk@hotmail.com">kadis_kk@hotmail.com</a>	22222 Kinjai St, China	A02
Bat	<a href="mailto:gem_pp@hotmail.com">gem_pp@hotmail.com</a>	333 Padlom Rd, Kana	A03
Cock	<a href="mailto:lome_link@hotmail.com">lome_link@hotmail.com</a>	4444 Sukumvit Rd, London	B01
Crab	<a href="mailto:buff01_lonh@hotmail.com">buff01_lonh@hotmail.com</a>	55 Tiger St, Thai	B02
Dog	<a href="mailto:gonenabe_11@hotmail.com">gonenabe_11@hotmail.com</a>	66 Cafe St, Kuwait	B03
Duck	<a href="mailto:torsak_spk@hotmail.com">torsak_spk@hotmail.com</a>	77 Drake Rd, Syris	C01
Fox	<a href="mailto:cat1123_kiki@hotmail.com">cat1123_kiki@hotmail.com</a>	88 Disto St, Nepal	C02
Koala	<a href="mailto:pater_kab@hotmail.com">pater_kab@hotmail.com</a>	99 Arcus Rd, Oman	C03
Ox	<a href="mailto:kora_mars@hotmail.com">kora_mars@hotmail.com</a>	0000 Mika Rd, Laos	C08

pID	pName	pGender	pAddress	StationID
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455	Prault	Male	9992 Kaidee Rd, Laos	C08
623	Yingluk	Female	76728 Saifai St, China	A02
757	Yingza	Female	10 Ramkam Rd, Thai	B02
808	Suphan	Male	87 Phukka Rd, Vietnam	A01
971	Malee	Male	72 Mamai St, Thai	B02
010	Papen	Female	67 Lamphong Rd, Vietnam	A01

vID	vName	Vgender	pID
v01	Venom	Male	237
v02	Bigtu	Male	105
v03	Samhon	Female	455
v04	Bigdang	Male	757
v05	Kainui	Female	312
v06	Nomnom	Female	971
v07	Bigberm	Male	808
v08	Kaija	Male	001
v09	Nangfha	Female	010
v10	Pussa	Female	623

hsEmail
<a href="mailto:Lome_link@hotmail.com">Lome_link@hotmail.com</a>