

SUPPLEMENTARY DEFINITIONS

DATABASE USED IN MULTIPLE QUESTIONS

The following is a relational database used in multiple questions on this exam.

The database contains the office holders current on a single day in history (10/23/2008).

You can assume that the relations BORDERS and IS_RELATED are symmetric (i.e. all pairs listed in both directions as shown below).

You can assume that only current elected officials are listed in the POLITICIAN and IS_RELATED relations. Thus Bill Clinton is no longer listed as Hillary Clinton's husband

For asymmetric relationships such as father/daughter/uncle/nephew in the IS_RELATED relation, the person matching the named role comes first (e.g. Edward Kennedy is the Uncle, Patrick Kennedy is the nephew).

GNP means Gross National Product.

COUNTRY	CName	Continent	GNP	Population	LitRate	LifeExp
	United States	North America	553399441	271031325	96	68
	Canada	North America	81944919	18990131	99	73

BORDERS	Country1	Country2
	United States	Canada
	Canada	United States

POLITICIAN	PName	Gender	Age	Office	Country	Region
	Barak Obama	Male	47	Senator	United States	Illinois
	Sarah Palin	Female	44	Governor	United States	Alaska
	Joe Biden	Male	64	Senator	United States	Delaware
	Beau Biden	Male	44	Atty. General	United States	Delaware
	Hillary Clinton	Female	63	Senator	United States	New York
	Gordon Brown	Male	51	Prime Minister	United Kingdom	null

IS_RELATED	Politician1	Politician2	Type
	Joe Biden	Beau Biden	Father
	Beau Biden	Joe Biden	Son
	Edward Kennedy	Patrick Kennedy	Uncle
	Patrick Kennedy	Edward Kennedy	Nephew

CONTAINS_GEO_OBJECT	Country	Feature	FeatureType
	Egypt	Nile	River
	Sudan	Nile	River
	Bolivia	Titicaca	Lake