

Appendix A

Name: _____

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Appendix A introduces an example, concerning World War 2 capital ships. It involves the following relations:

- ShipModels(model, type, country, numGuns, bore, displacement)
- Ships(shipName, model, launched)
- Battles(battleName, date)
- Outcomes(shipName, battleName, result)

The relation ShipModels records the name of the model, the type('bb' for battleship or 'bc' for battlecruiser), the country that build the ship, the number of main guns, and their size (bore), and the displacement(weight, in tons). Relation Ships records the name of the ship, the model of the ship, and the year in which the ship was launched. Relation Battles gives the name and date of battles involving these ships, and relation Outcomes gives the result (sunk, damaged, ok) for each in each battle. The following shows sample instances for these relations.

Sample data for ShipModels

model	type	country	numGuns	bore	displacement
Bismarch	bb	Germany	8	15	42000
Iowa	bb	USA	9	16	46000
Kongo	bc	Japan	8	14	32000
North Carolina	bb	USA	9	16	37000
Renown	bc	Britain	6	15	32000
Revenge	bb	Britain	8	15	29000
Tennessee	bb	USA	12	14	32000
Yamato	bb	Japan	9	18	65000

Sample data for Ships

shipName	model	launched
California	Tennessee	1921
Haruna	Kongo	1915
Hiei	Kongo	1914
Iowa	Iowa	1943
Kirishma	Kongo	1915
Kongo	Kongo	1913
Missouri	Iowa	1944
Musashi	Yamato	1942
New Jersey	Iowa	1943
North Carolina	North Carolina	1941
Ramillies	Revenge	1917
Renown	Renown	1916
Repulse	Renown	1916
Resolution	Revenge	1916
Revenge	Revenge	1916
Royal Oak	Revenge	1916
Royal Sovereign	Revenge	1916
Tennessee	Tennessee	1920
Washington	North Carolina	1941
Wisconsin	Iowa	1944
Yamato	Yamato	1941

Sample data for Outcomes

shipName	battleName	result
California	Surigao Strait	ok
Kirishma	Guadalcanal	sunk
Tennessee	Surigao Strait	ok
Washington	Guadalcanal	ok
Washington	North Cape	sunk
Royal Oak	North Cape	damaged
Royal Oak	Surigao Strait	sunk

Sample data for Battles

battleName	date
Denmark Strait	5/25/41
Guadalcanal	11/15/42
North Cape	12/26/43
Surigao Strait	10/25/44