Kimass Lowell - Dept. of C.S.

Database I (COMP 3090)

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HOMEWORK #3

Exercise 2.4.3

a) Five the class names and countries of the classes that carried guns of

at least 16 -inch bone.

 $R2:=\pi(R1)$ class, country

	Class	Country
Result:	Iowa	USA
*	North Carolina	USA
	Yamato	Japan

b) Find the ships launched prior to 1921

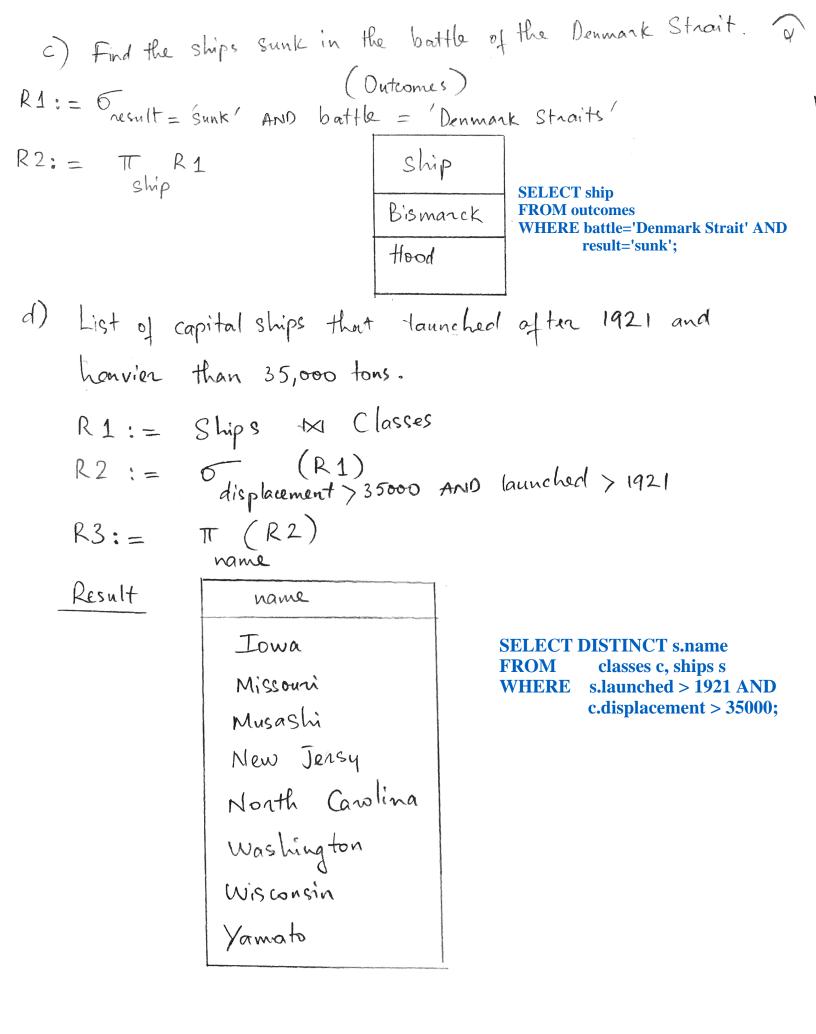
R2:= T (R1)

Result:

a)
SELECT class, country
FROM classes
WHERE bore >= 16;

b)
SELECT name
FROM ships
WHERE launched < 1921;

Haruna
Hiei
Kinishima
Kongo
Ramilies
Renown
Repulse
Resolution
Revenge
Royal Oak
Royal Oak
Royal Sovereign
Tennessee



ships engaged in the battle of Guadalcanal.

R1:= 5 (Outcomes)
battle = 'Guadalcanal'

R2:= (R1) M (Ships)
name = ship

 $R3:=(R2) \bowtie Classes$

R4:= Thame, displacement, numbuns

Result:

name	displacement	num Guns
Kinishima	32000	8
Washington	37000	9

f) List all the capital ships wentioned in the database

R1:= Trame (Ships)

R2: = Tship (Outcomes)

 $R3:=\int_{MGM_2} (R2)$

R4:= R1 UR3

SELECT DISTINCT ship FROM outcomes UNION SELECT DISTINCT nam

SELECT DISTINCT name FROM ships;

	-			Name and Address of the Owner, where		Name and Administration	tunique special profession	AND THE RESERVE THE PERSON NAMED IN	ent SSSLE gangetier SS value			AND DESCRIPTION OF THE PARTY OF	e et per per per per per	and control with the control of the	www.complexico.com	yftillite yearnetarit	magamananti yakili (Piri	ter un de la compresión d	gisti kirolomisko 42427	no political disamento	April 10 percent of the Park	a at you pay to state a parent that	PMD parents or transmits	SECOND MASSIMPPORTUNE
Result	Mand	California	Harma	土が	Town	Kinshima	Kongo	Missouri	Mugaelii	New Jersey	North Carolina	Ramilies	Remoun	Repulse Resolution	Prevenge	Royal Oak	Royal Sovereign	Tenessee	Washington	Wissonsin	Yamato	South Dakota	West Vinginia	Vamashino

Result:

country

SELECT DISTINCT country FROM classes WHERE type='bb' **SELECT DISTINCT country** FROM classes WHERE type='bc';

i) Find the ships that were damaged in one battle, but later fought in another.

R1: = Battles M Outcomes (battle = name)

R2:= T (R1) Ship, result, date

 $R3:=\int_{R3(ship3, result3, date3)}$

R4:= R2 M R3 Ship = ship 3 AND result = damaged AND date <date2

R5:= Tship (R4)

Result: not found