# CSC343 Worksheet 2 Solution

June 11, 2020

### 1. Exercise 2.4.1:

a)  $\sigma_{speed \geq 3.0}$  (Movies)

Models 1005, 1006, 1013 have speed greater than 3.0

	model	speed	ram	hd	price
	1001	2.66	1024	250	2114
	1002	2.10	512	250	995
	1003	1.42	512	80	478
	1004	2.80	1024	250	649
$\rightarrow$	1005	3.20	512	250	630
<b>-</b>	1006	3.20	1024	320	1049
	1007	2.20	1024	200	510
	1008	2.20	2048	250	770
	1009	2.00	1024	250	650
	1010	2.80	2048	300	770
	1011	1.86	2048	160	959
	1012	2.80	1024	160	649
<b>→</b>	1013	3.06	512	80	529

## Notes:

- $\bullet$  Select
  - Is indicated by  $\sigma$
  - Syntax:  $\sigma_{\rm QUERY} {\rm SCHEMA\_NAME}$
  - e.g  $\sigma_{length \ge 100 \text{ AND } studioName='Fox'}$  (Movies)

### **Relation - Movies**

title	year	length	in Color	studioName	producerC#
Star Wars	1977	124	sciFi	Fox	12345
Galaxy Quest	1999	104	comedy	DreamWorks	67890

## b) Notes:

- Project
  - Picks certain columns
  - Is indicated by  $\pi$
  - Syntax:  $\pi_{A_1,A_2,\cdots,A_n}(\mathrm{Rel})$