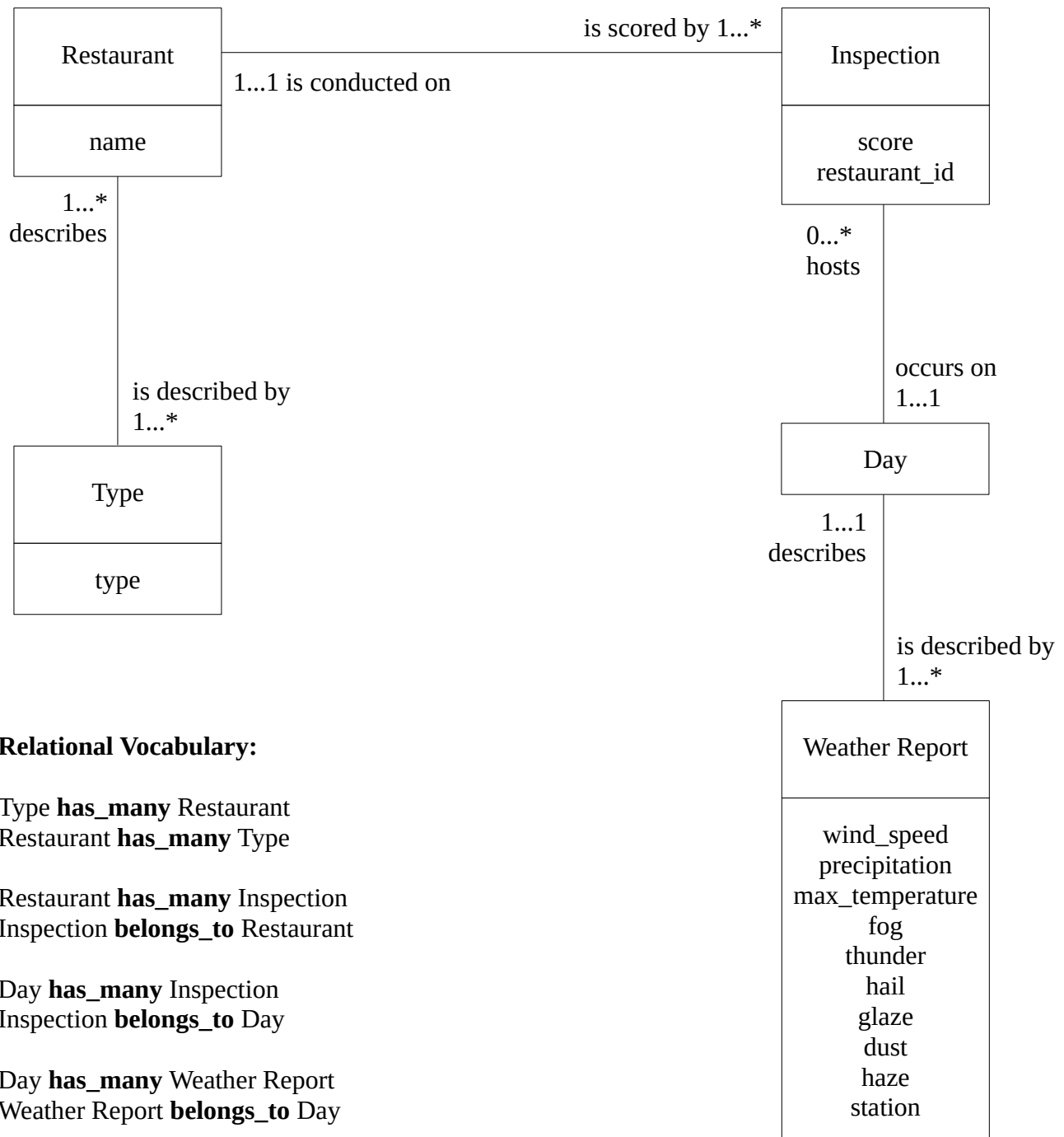


Mike Slovenski
385T.9 Data Wrangling
10 March 2019

Project Database and Workflow Design

ER Diagram:



Relational Vocabulary:

Type **has_many** Restaurant
Restaurant **has_many** Type

Restaurant **has_many** Inspection
Inspection **belongs_to** Restaurant

Day **has_many** Inspection
Inspection **belongs_to** Day

Day **has_many** Weather Report
Weather Report **belongs_to** Day

Tables:

restaurants	
<u>id</u>	<u>name</u>
1	Salty Sow
2	Moonshine
3	El Patio
4	Dragonbeard Kitchen

types	
<u>id</u>	<u>type</u>
1	American (Traditional)
2	Southern
3	Mexican
4	Asian Fusion
5	Gastropub
6	Breakfast & Brunch
7	Hawaiian

restaurants_types	
<u>restaurant_id</u>	<u>type_id</u>
1	1
1	5
2	2
2	6
3	3
4	4
4	7

inspections			
<u>id</u>	<u>date</u>	<u>score</u>	<u>restaurant_id</u>
1	2016-05-23	87	1
2	2017-04-30	98	1
3	2016-11-06	94	2
4	2018-04-09	91	2
5	2017-10-29	95	3
6	2019-01-09	93	4

weather_reports										
<u>id</u>	<u>date</u>	<u>wind_speed</u>	<u>precip</u>	<u>max_temp</u>	<u>fog</u>	<u>thunder</u>	<u>hail</u>	<u>glaze</u>	<u>dust</u>	<u>haze</u>
1	2016-05-23	14.1	0.01	85	1	0	0	0	0	0
2	2016-05-23	21.0	0.01	85	1	0	0	0	0	0
3	2016-11-06	12.1	0.07	76	1	0	0	0	0	0
4	2016-11-06	21.9	0.60	78	1	1	0	0	0	0
5	2017-10-29	10.1	0.00	76	0	0	0	0	0	0
6	2017-10-29	16.1	0.00	75	0	0	0	0	0	0
7	2018-04-09	10.1	0.00	65	1	0	0	0	0	1
8	2018-04-09	16.1	0.00	65	1	0	0	0	0	0
9	2019-01-09	14.1	0.00	62	0	0	0	0	0	0
10	2019-01-09	21.0	0.00	63	0	0	0	0	0	0
11	2018-07-23	8.1	0.00	110	0	0	0	0	0	0
12	2018-07-23	13.0	0.00	109	0	0	0	0	0	0

weather_reports (cont.)										
<u>station</u>										
USW00013958										
USW00013904										
USW00013958										
USW00013904										
USW00013958										
USW00013904										
USW00013958										
USW00013904										
USW00013958										
USW00013904										
USW00013958										
USW00013904										
USW00013958										
USW00013904										

inspections_weather_reports	
<u>inspection_id</u>	<u>weather_report_id</u>
1	1
1	2
3	3
3	4
4	7
4	8
5	5
5	6
6	9
6	10

Workflow Diagram:

