

# Lab 4

Programme	:	<b>B.Tech CSE</b>	Semester	:	<b>Win 2018-19</b>
Course	:	<b>Database Management Systems(Embedded Lab)</b>	Code	:	<b>CSE2004</b>

Ex. No: 4

Date: 20/12/2018

## Matching Challenges

Event				Status		ReadyReason		DelayReason		SpareReason		DownReason	
EventID	Duration	Status Code	Reason Code	Status Code	Name	Reason Code	Name	Reason Code	Name	Reason Code	Name	Reason Code	Name
1	5	R	S	R	Ready	S	Standby	S	No Spare	C	Cold Spare	B	Broken Part
2	60	D1	S	D1	Delay	R	Running	V	Vendor	H	Hot Spare	H	Over Heated
3	10	S	C	S	Spare								
4	20	D2	H	D2	Down								
5	15	S	H										
6	25	D1	V										
7	20	R	S										
8	60	D2	B										

- Getting the Reason Name is much more difficult.
- The table to match ReasonCode depends on the StatusCode.
- There isn't a built in way to do this type of join.
- However, if we had a table of StatusCode, ReasonCode, and Names, we could match on the two columns.

Goal: For each event display the EventID, Duration, Status Name, and Reason Name.

Event

EventID	Duration	Status Code	Reason Code
1	5	R	S
2	60	D1	S
3	10	S	C
4	20	D2	H
5	15	S	H
6	25	D1	V
7	20	R	S
8	60	D2	B



Query Result

EventID	Duration	Status Name	Reason Name
1	5	Ready	Standby
2	60	Delay	No Spare
3	10	Spare	Cold Spare
4	20	Down	Over Heated
5	15	Spare	Hot Spare
6	25	Delay	Vendor
7	20	Ready	Standby
8	60	Down	Broken Part

Problem:

- Each status code has a corresponding table of reason codes.
- To get the name of the reason code, you first need to use the status code to determine which reason table to match.
- These tables aren't normalized, but sometimes you get what you get and just have to cope...