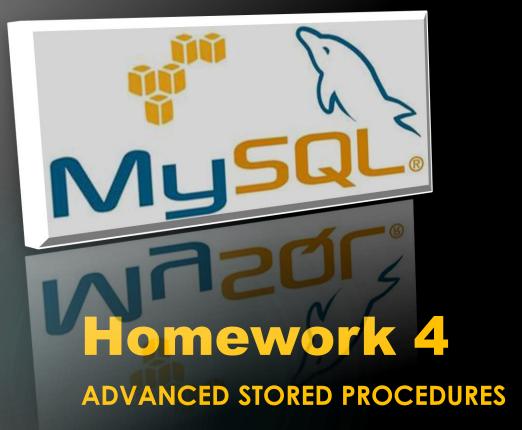
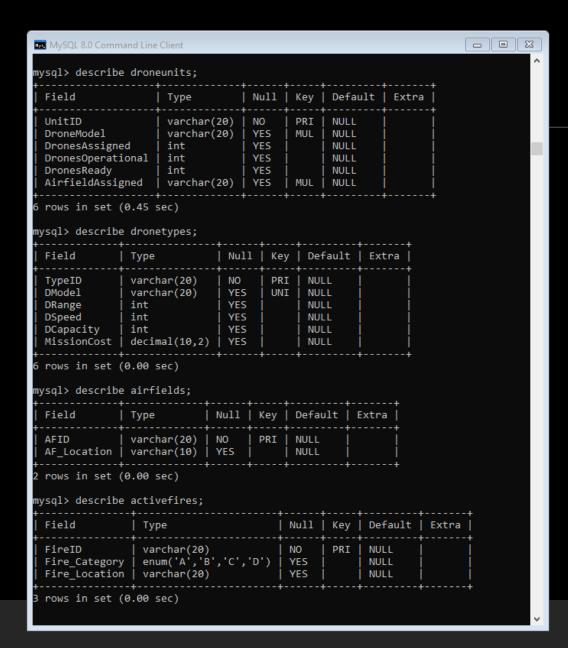
## IS664 Database Programming Spring 2022

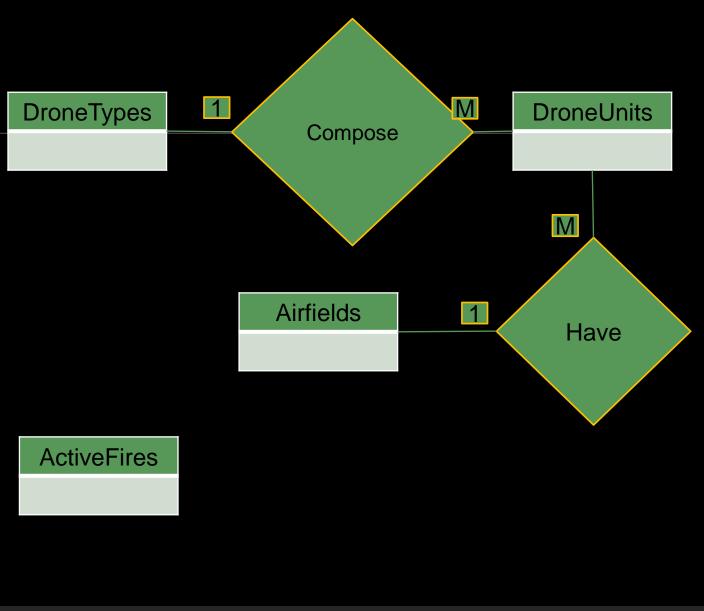
**HW 4** 



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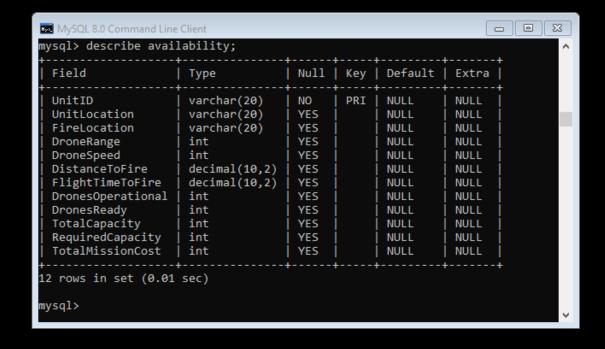
## General





## **Task**

Create the stored procedure showAvailableUnits which accepts a single Active Fire ID and creates the temporary table availability that contains information about the Drone Units that can respond to the fire.



A Drone can respond to a fire if the distance to the fire is within the Drone's range.

Only Drones that are READY can respond to a fire.

The Total Capacity of a Drone Unit is the number of READY Drones x Capacity of the Drone.

The Required Capacity of a Fire is categorized as:

- A 400,000
- B 600,000
- **C** 800,000
- **D** 900,000

## **Expected Output**

```
CALL showAvailableUnits('F2-12-1');
CALL showAvailableUnits('F2-8-11');
```

MySQL 8.0	Command Line Client												•
+		+	+		+		+	+	+	+	+	+	
JnitID							DronesOperational				TotalMissionCost		
DU-016	70:87	804:783	1200	80	1023.29	12.79	8	8	7200	800000	88000		
DU-017	51:7	804:783	1200	80	1050.16	13.13	16	8	7200	800000	88000		
DU-018	9:60	804:783	1200	80	1109.55	13.87	16	7	6300	800000	77000		
DU-019	7:87	804:783	1200	80	1112.38	13.90	12	9	8100	800000	99000		
	7:87	804:783	1200	80	1112.38	13.90	12	12	10800	800000	132000		
uery OK,	0 rows affected				<b>.</b>	·	<b>.</b>	+	+	+	+	+	
							DronesOperational					+	
	87:155	238:388	800	120	336.75	2.81	8	8	1600	400000	58400		
	56:119	238:388	800	120	378.61	3.16	8	8	1600	400000	58400		
	196:86	238:388	800	120	196.54	1.64	7	7	1400	400000	51100		
DU-009	39:149	238:388	800	120	401.75	3.35	12	9	1800	400000	65700		
DU-010	7:87	238:388	800	120	445.56	3.71	12	4	800	400000	29200		
DU-011	7:87	238:388	700	90	445.56	4.95	8	8	4000	400000	74000		
DU-012	7:87	238:388	700	90	445.56	4.95	8	8	4000	400000	74000		
DU-013	7:87	238:388	700	90	445.56	4.95	7	7	3500	400000	64750		
DU-014	7:87	238:388	700	90	445.56	4.95	4	4	2000	400000	37000		
DU-015	7:87	238:388	700	90	445.56	4.95	8	3	1500	400000	27750		
DU-016	70:87	238:388	1200	80	359.65	4.50	8	8	7200	400000	88000		
DU-017	51:7	238:388	1200	80	385.41	4.82	16	8	7200	400000	88000		
DU-018	9:60	238:388	1200	80	442.81	5.54	16	7	6300	400000	77000		
DU-019	7:87	238:388	1200	80	445.56	5.57	12	j 9	8100	400000	99000		
DU-020	7:87	238:388	1200	80	445.56	5.57	12	12	10800	400000	132000		
5 rows in	set (0.00 sec)	)	+			+	+	+	+	+	+		
uery OK,	0 rows affected	d (0.05 sec)											
/sql>													