— Lecture 8 —

L8.1 Question Prompt

Using a subquery, find the number of cars each person drives
•Hint: your query will be correlated

Payroll

UserID	Name	Job	Salary
123	Leslie	TA	50k
345	Frances	TA	60k
567	Magda	Prof	120k
789	Quinn	Prof	100k

Regist

UserID	Car	Year
123	Charger	2009
567	Civic	2016
567	Ferrari	2000
789	Picklemobile	2018

L8.2 Question Prompt

Give a proposition for people who do not drive cars, then write a SQL query to return their name and salary
•Hint: you will need to use a different expression than a check for the empty set ∅

L8.3 Question Prompt

```
SELECT P.Job, COUNT(*)
  FROM Payroll AS P
 GROUP BY P.Job
```

Is this query Monotone:

- ○ Yes Monotone
- ○ Not Monotone

What is a record you could add to demonstrate the above:

— Lecture 9 —

L9.1 Question Prompt

Find the number of each car each person drives (Including Frances Quinn!)

UserID	Name	Job	Salary
123	Leslie	TA	50k
345	Frances	TA	60k
567	Magda	Prof	120k
789	Quinn	Prof	100k

UserID	Car	Year
123	Charger	2009
567	Charger	2016
567	Charger	2000
567	Civic	2018

L9.2 Question Prompt

Select each Driver in Person who drives all the vehicles in Car:

Driver	Car
Leslie	Camry
Leslie	Civic
Magda	Ferrari
Magda	Camry
Magda	Civic
Frances	Civic
Leslie	Ferrari
Frances	Camry

Car
Camry
Ferrari
Civic

L9.3 Question Prompt

How many records are returned?

```
SELECT *
  FROM Toys
 WHERE price < 1000
   AND (size=2 OR color='red')
```

Name	Price	Size	Color
iPad Pro	$1099	12	gray
Bicycle	NULL	NULL	red
Freeze Tag	$0	NULL	NULL
iPad Air	$599	10	NULL