Organization:

City transit system

Processes:

* Employee
  + Driver
  + Manager
  + Administrative
* Bus-driver assignments
* Driver hour tracking
  + Driver overtime tracking
* Driver status tracking
* Incident reports
* Bus status tracking
* Bus maintenance tracking
* Bus inspection tracking
* Bus camera checking
* Driver employment status
* Driver training status
* Bus-route assignment
* Route scheduling
* Employee tracking
* Driver-manager relationships

Business rules:

* No driver can be on more than one bus at the same time during the same day
* Every bus has its own id and is unique
* Every driver has its own id and is unique

Queries:

* How many hours did driver x work on day y
* How many hours of overtime did driver x work under manager y within a certain period of time
* Which drivers are both currently on-call and also unscheduled for the next n days
* Which admin worker reviewed a specific driver’s status report
* Of the drivers who worked during a specific period, list the ones that are no longer employed
* List the drivers who had incident reports with buses that had lower maintenance scores
* List the number of off-duty drivers managed by each manager
* List average relationship between time since last maintenance check and incident report frequency with specific buses
* List all managers who have not managed drivers who have driven on a specific route
* Of all of the managers who have been employed for less than a year, how many of them currently manage more than n drivers?

Views:

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