

## NIRAJ SHAH

### Assumptions for State Patrol Systems:

1. Judges can never be an officer or a partner and vice versa but an officer can be a partner.
2. A state Employee has to be from Judge, Officer and Partner.
3. A ticket can be issued for only one violation at a time.
4. An additional insurance can be of Environmental OR Injury but cannot be both.
5. A warrant can be issued for only one ticket at a time.
6. The Driver entity holds information about the issue, renewal and suspension of the license  
Assuming the person has passed the driving test OR an order from the court is issued to suspend the license due to a violation consequence.
7. The court notifies the driver about the trial date if driver pleas for innocence.
8. The system sends a ticket details report to the court since a report cannot be an entity.
9. A composite Primary key cannot have null in any of these fields and must be unique as a composite (checked in SQL).
10. A vehicle is owned by one driver only.
11. A judge cannot oversee his own trial if he/she is a ticketholder in that case, a different judge will oversee to avoid conflict of interest.