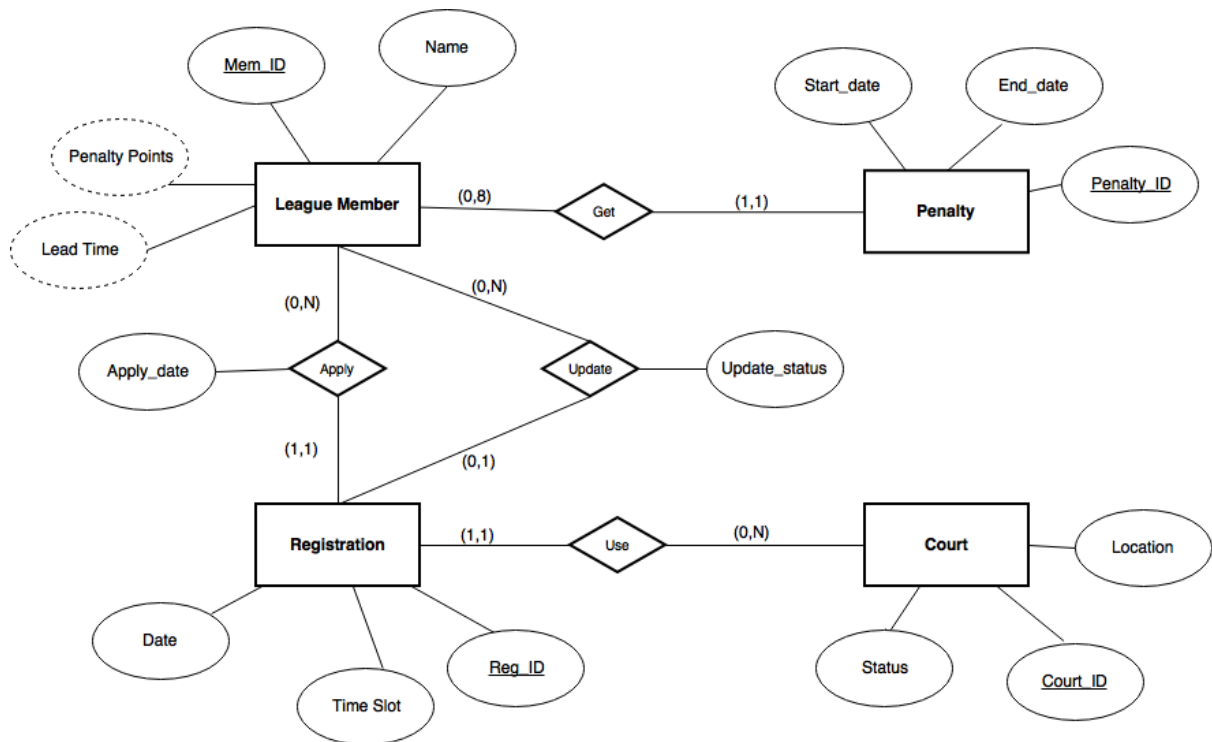


Name: QI TANG; NetID: qtang



League member

<u>Mem_ID</u>	Name
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Penalty

<u>Penalty_ID</u>	Mem_ID	Start_date	End_date
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Registration

<u>Reg_ID</u>	Date	Time slot	Court_ID	Mem_ID	Update_status	Apply_date
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Court

<u>Court_ID</u>	Status	Location
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Functional dependencies

$\text{Mem_ID} \rightarrow \{\text{Name}\}$

$\text{Penalty_ID, Mem_ID} \rightarrow \{\text{Start_date, End_date}\}$

$\text{Reg_ID, Court_ID, Mem_ID} \rightarrow \{\text{date, time slot, update_status, apply_date}\}$

$\text{Court_ID} \rightarrow \{\text{status, location}\}$

This relation schema belongs to BCNF. Because every right side of functional dependencies are not contained in the left side. Left sides are all super keys. There are no non-key attributes are depending on another non-key attributes.