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Relational Schema:
ROUTE = (\underline{routeID})
LEG = (\underline{legID}, distance)
CONTAINS = (\underline{rID}[FK1], \underline{IID}[FK2], \text{ sequence})
         FK1: rID \rightarrow ROUTE(routeID)
         FK2: IID \rightarrow LEG(legID)
PRT = (<u>portID</u>, name, city, state, country, locID[FK3])
         FK3: IID \rightarrow LOCATION(locID)
DEPARTS = (\underline{IID}[FK4], \underline{pID}[FK5])
         FK4: IID \rightarrow LEG(legID)
         FK5: pID \rightarrow PORT(portID)
ARRIVES = (\underline{IID}[FK6], \underline{pID}[FK7])
         FK6: IID \rightarrow LEG(legID)
         FK7: pID \rightarrow PORT(portID)
LOCATION = (\underline{locID})
SHIP = (<u>sname</u>, max cap, speed, locID[FK8], cruiselineID[FK9])
         FK8: IID \rightarrow LOCATION(locID)
         FK9: cID \rightarrow CRUISELINE(cruiselineID)
RIVER = (uses paddles, sname[FK10], cID[FK13])
         FK10: sname \rightarrow SHIP(sname)
         FK13: cID \rightarrow SHIP(cruiselineID)
OCEAN LINER = (lifeboats, sname[FK11], cID[FK15])
         FK11: sname \rightarrow SHIP(sname)
         FK15: cID \rightarrow SHIP(cruiselineID)
CRUISELINE = (<u>cruiselineID</u>)
CRUISE = (\underline{cruiseID}, cost, rID[12])
         FK12: rID \rightarrow ROUTE(routeID)
SUPPORTS = (cID[FK14], sname[FK24], clineID[FK25], progress, sstatus, next time)
         FK14: cID \rightarrow CRUISE(cruiseID)
         FK25: sname \rightarrow SHIP(sname)
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FK25: clineID \rightarrow SHIP(cID)
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OCCUPIES = $(\underline{pID}[FK19], \underline{IID}[FK20])$

FK19: pID → PERSON(personID)

FK20: $IID \rightarrow LOCATION(locID)$

PERSON = (personID, plast, pfirst)

CREW = (taxID, experience, pID[FK16], cID[FK21])

FK16: pID \rightarrow PERSON(personID)

FK21: cID \rightarrow CRUISE(cruiseID)

CREW LICENSE = (pID[FK17], license name)

FK17: pID \rightarrow PERSON(personID)

PASSENGER = $(\underline{pID}[FK18], miles, funds)$

FK18: pID \rightarrow PERSON(personID)

BOOKED = ($\underline{\text{pID}}[FK22]$, $\underline{\text{cID}}[FK23]$)

FK22: pID \rightarrow PERSON(personID)

FK23: $cID \rightarrow CRUISE(cruiseID)$