Report2
DB Design 실습

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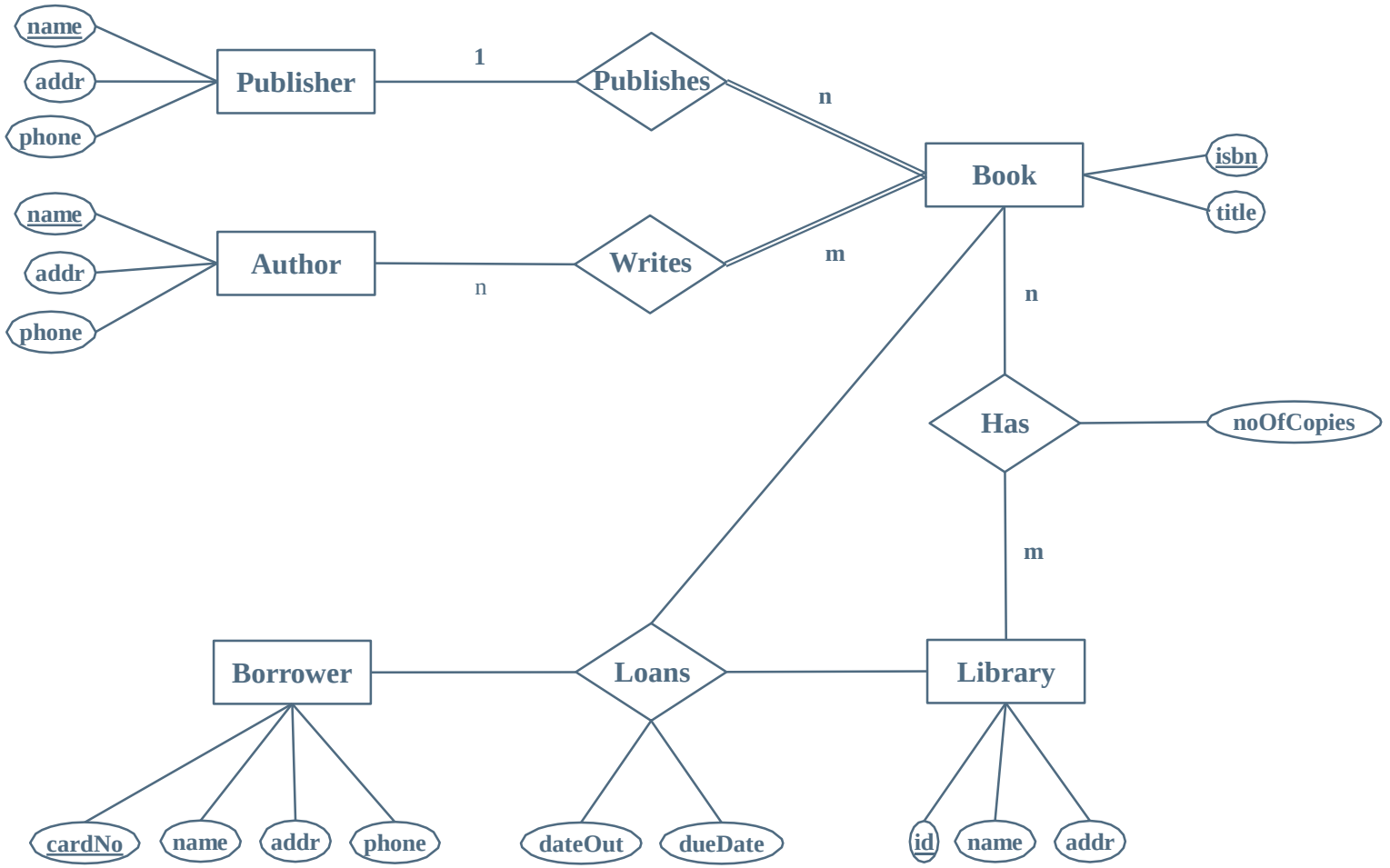
문제 1 : Library DB의 개념적 ERD

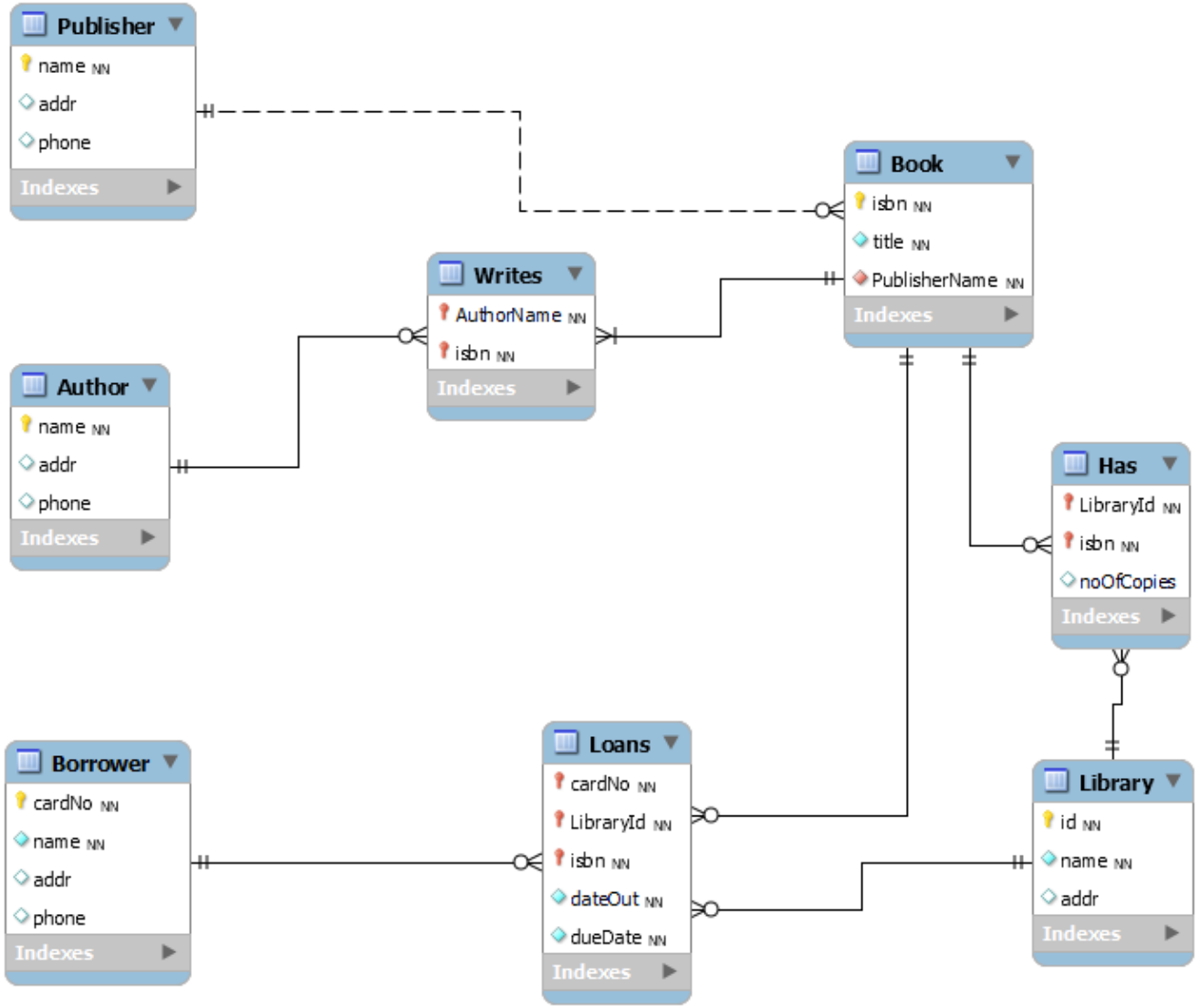


1. 관계 스키마

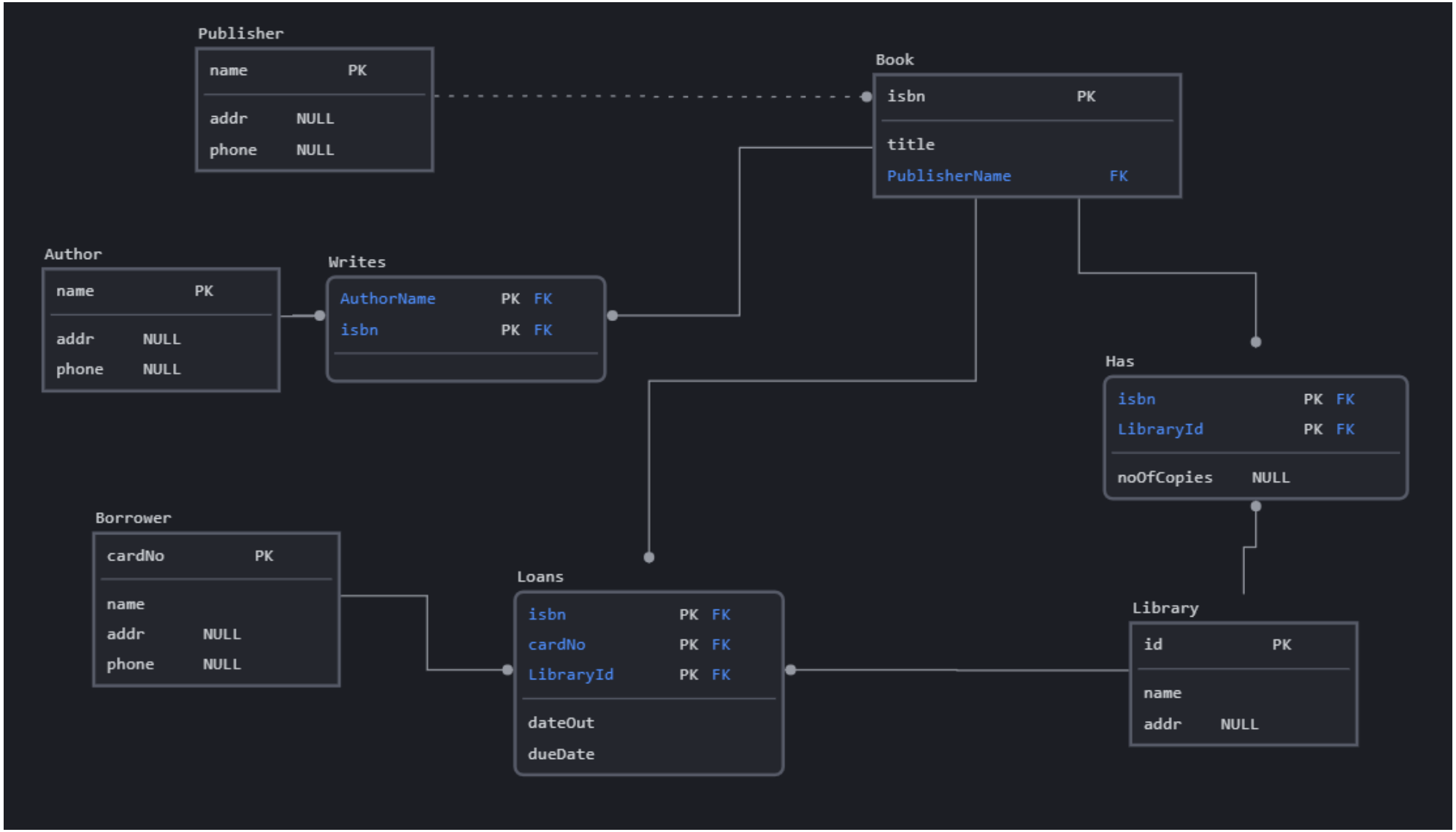
□ 개체 테이블
- Publisher (name, addr, phone)
- Author (name, addr, phone)
- Book (isbn, title, **Publisher**Name*)
- Borrower (cardNo, name, addr, phone)
- Library (id, name, addr)

□ 관계 테이블
- writes (**Author**Name*, isbn*)
- has (isbn*, **Library**Id*, noOfCopies)
- loans (**card**No* , isbn* , **Library**Id*, dateOut, dueDate)

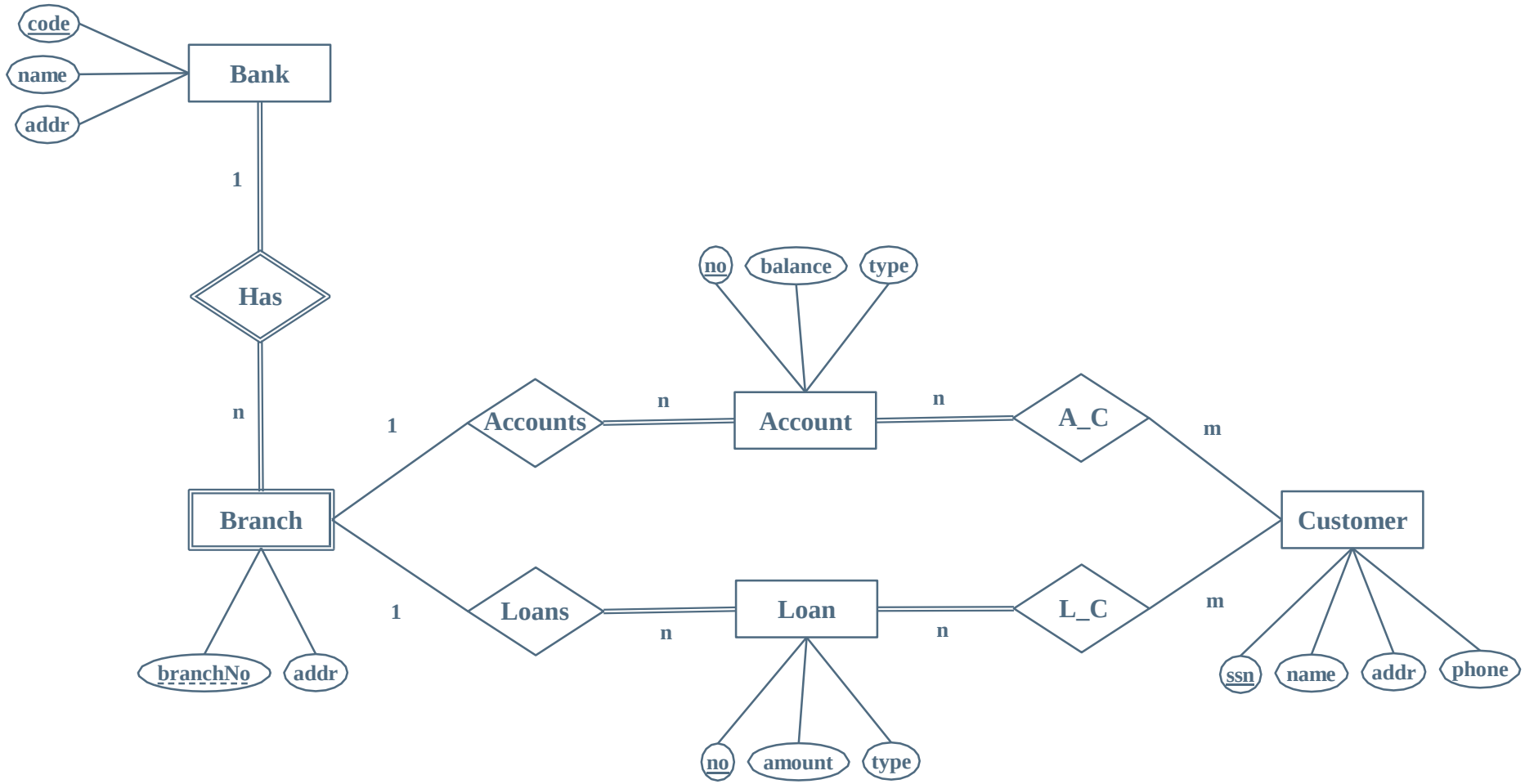
2. 논리적 ERD : IE 표기법 (MySQL WorkBench)



3. 논리적 ERD : IDEF1X 표기법 (SqlDBM)



문제 2 : Bank DB의 개념적 ERD



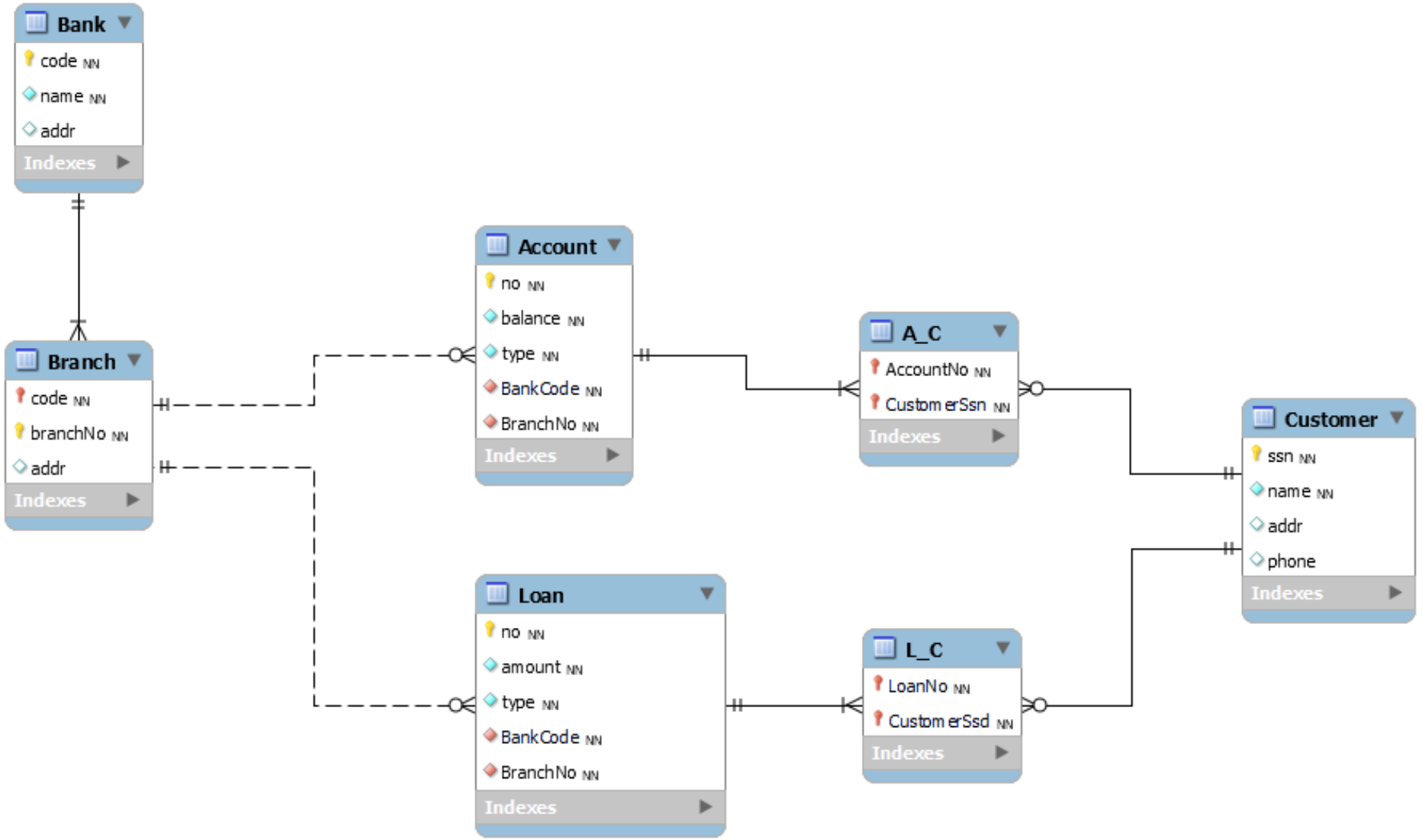
1. 관계 스키마

□ 개체 테이블
- Bank (code, name, addr)
- Account (no, balance, type, **Bank**Code*, **Branch**No*)
- Loan (no, amount, type, **Bank**Code*, **Branch**No*)
- Customer (ssn, name, addr, phone)

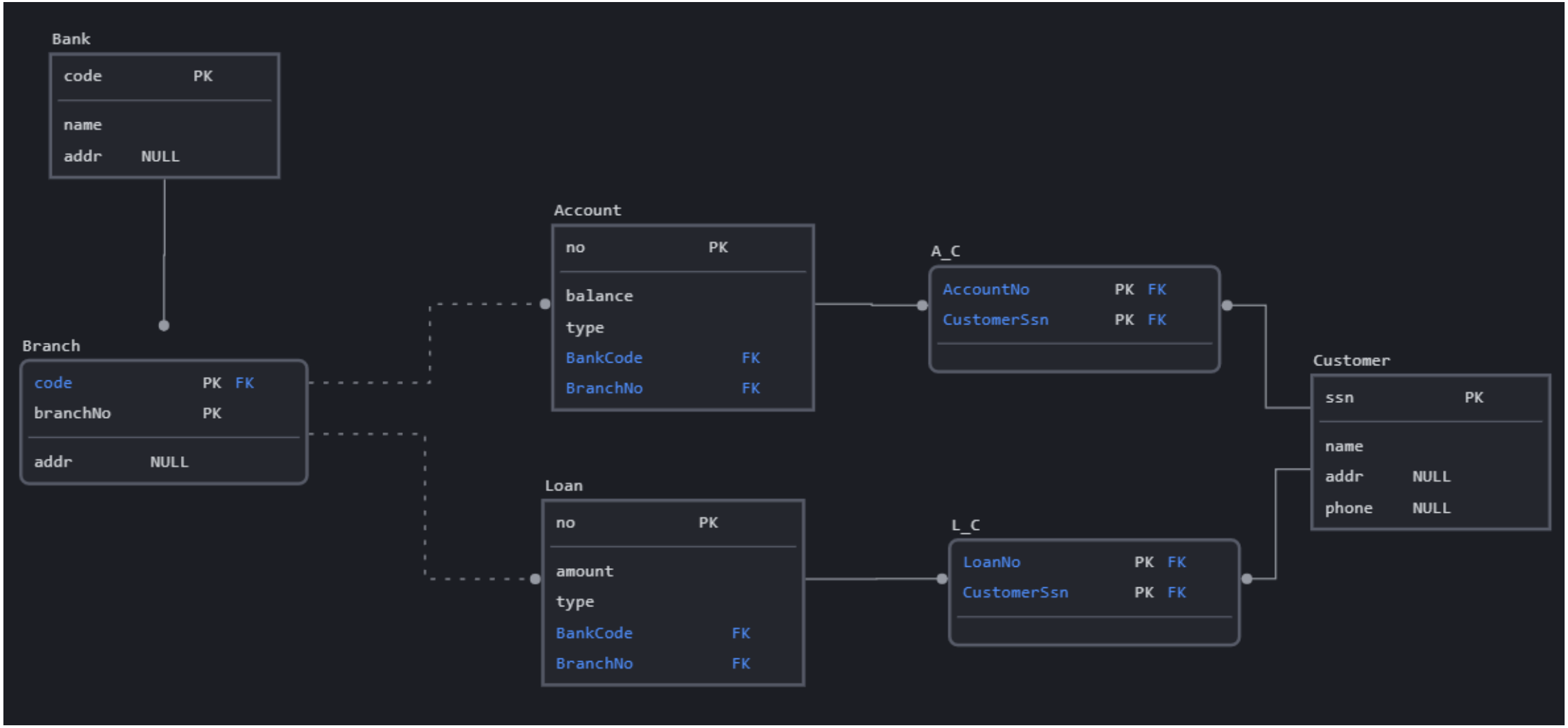
□ 개체 테이블 (존재 종속)
- Branch (code*, branchNo, addr)

□ 관계 테이블
- A_C (**Account**No*, **Customer**Ssn*)
- L_C (**Loan**No*, **Customer**Ssn*)

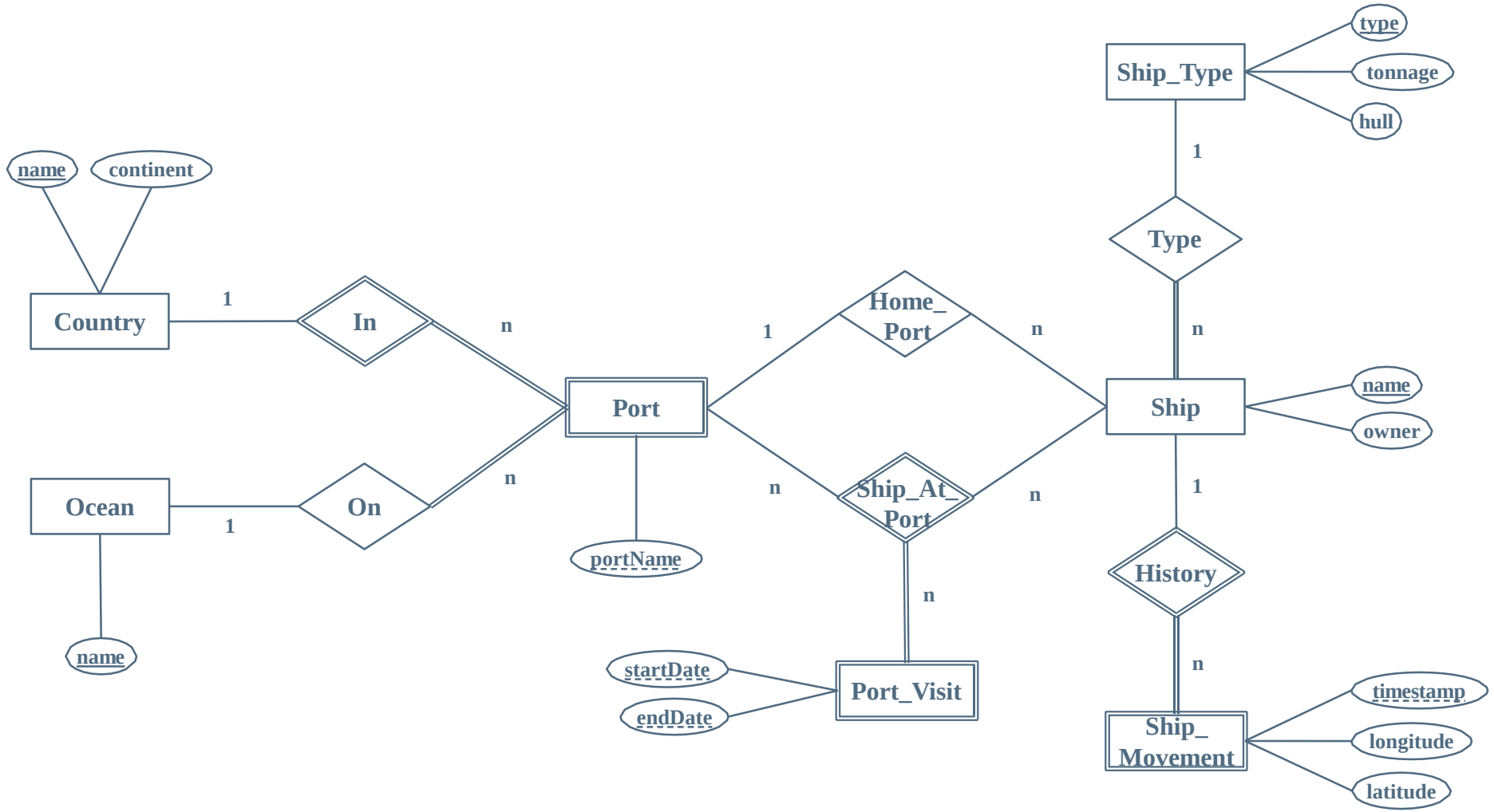
2. 논리적 ERD : IE 표기법 (MySQL WorkBench)



3. 논리적 ERD : IDEF1X 표기법 (SqlDBM)



문제 3: Ship-Port DB의 개념적 ERD

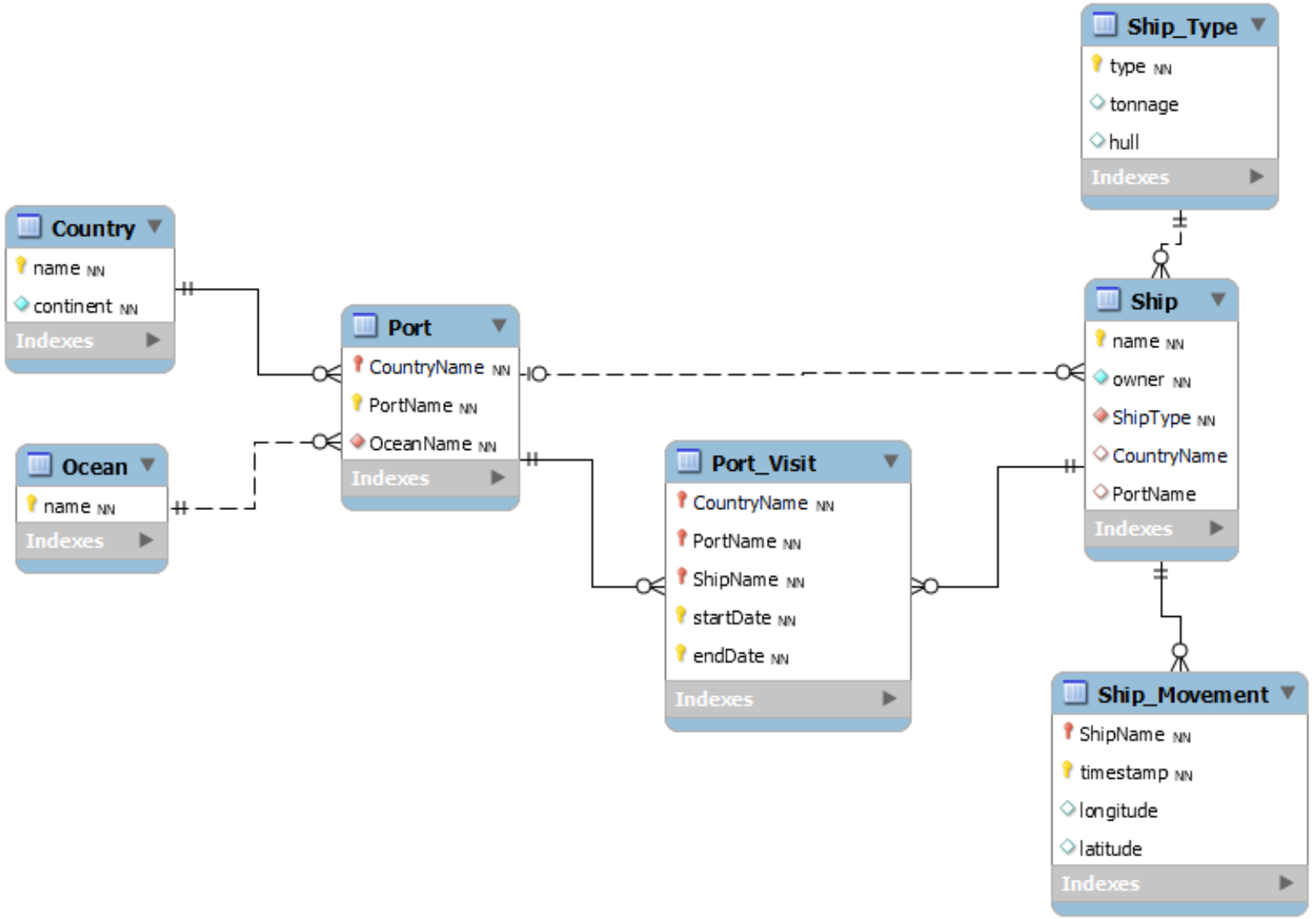


1. 관계 스키마

□ 개체 테이블
- Country (name, continent)
- Ocean (name)
- Ship_Type (type, tonnage, hull)
- Ship (name, owner, **Port**Name* N, **Country**Name* N, **Ship**Type*)

□ 개체 테이블 (존재 종속)
- Port (**Country**Name*, PortName, **Ocean**Name*)
- Port_Visit (**Country**Name*, **Port**Name*, **Ship**Name*, startDate, endDate)
- Ship_Movement (**Ship**Name*, timestamp, longitude, latitude)

2. 논리적 ERD : IE 표기법 (MySQL WorkBench)



3. 논리적 ERD : IDEF1X 표기법 (SqlDBM)