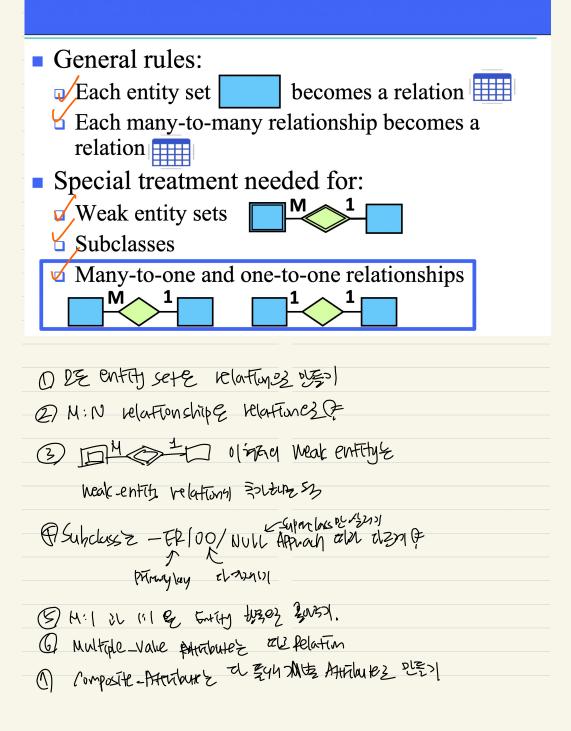
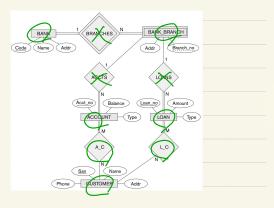
ER Diagram → Relational Schema



- 9.2. Map the UNIVERSITY database schema shown in Figure 3.20 into a relational database schema.
- 9.4. Figure 9.8 shows an ER schema for a database that can be used to keep track of transport ships and their locations for maritime authorities. Map this schema into a relational schema and specify all primary keys and foreign keys.

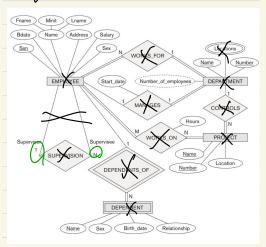
SHTP_TYPE (<u>Ture</u>, Tonraje, Hull)
SHTP (<u>Sname</u>, Owner, Type, Phane)
PORT (<u>Phane</u>, <u>Name</u>

9.5. Map the BANK ER schema of Exercise 3.23 (shown in Figure 3.21) into a relational schema. Specify all primary keys and foreign keys. Repeat for the AIRLINE schema (Figure 3.20) of Exercise 3.19 and for the other schemas for Exercises 3.16 through 3.24.



- · BANK (<u>Gode</u> , Nane, Addr)
- BANK_BRANCH (Branch_no, BANK.code, Addr)
- · ACCOUNT (ACC+_no, Balance, Type, BANK_BRANCH. Branch_no)
- LOAN (Loan_no, Amount, Type, BANK-BRANCH. Brench_no)
- CUSTONIER (Son, Name, phore, Addr)
- A-C (Acct-m, Ssn)
- . L-C (Loan-no, Ssn)

Q) Figure 3.15



EHPLOYEE (Csn.), Rdaye, Franz, Ntript, Lague, Addless, Calay, Cer.
Supervisor-Ssn., DEPAPTMENT, None, DEPAPTMENT, Numer)

SUPERIJETON (Supervisor-Sen , Supervise-Sen)

DEPENDENT (Name), Sex, Britighate, Relationship, EMPLOYET Son)
PROJECT (Name), Number, Location, DEPARTUENT, Number)

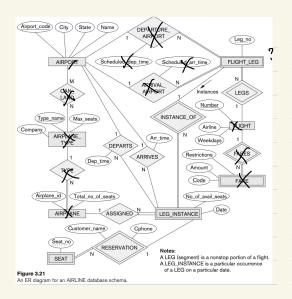
DEPARTHENT (Maye, Number, BHANDAST Son, MANAGES Stort-du)

DEPARTMENT_LOCATION (Location # , DEPARTMENT. Nanc. (PRESIDE Founda)

WORKSON (FAPROYETSEN, PROJECT, NOW, PROJECT NUMBER
HOWS)

M:11 Polatashipoz alz Pelatin, cumpiz

42th



ACPPORT (ATHOH_sode, City, State, Name)

CAN-LAND (ATPPOPT. ATYPOX CODE, AZPPLANT-TYPE. TYPE_nane)

ATTPLANTE TYPE (Type_name, Max_searts, Company)

ATPRANTE (ATPHARE IT , Total moof seats, ATPHARE TYPE Type nam)

FLIGHT_LITTE (Leg-100), Scheduled_lep-1 Time, DEPARTURE - ATTPOH-LUNCE

Sdeduled_am_time, APPIVAL_ATYPOX-code,

FLIGHT. Number)

FLIGHT (Number, ATHER, Weekdays)

FART (Code, FLIGHT. Number, Amount, Pestrictions)

