
04: Employee

Solution A

Employee(id, number)

Name(employee, first, last)

FK: (employee) \subseteq Employee(id)

Degrees(employee, degree)

FK: (employee) \subseteq Employee(id)

Address(employee, street, city, postalCode)

FK: (employee) \subseteq Employee(id)

Solution B

Employee(id, number, first, last)

Degrees(employee, degree)

FK: (employee) \subseteq Employee(id)

Address(employee, street, city, postalCode)

FK: (employee) \subseteq Employee(id)

05: Workplace

Boss(employee, superior)

FK: (employee) \subseteq Employee(id)

FK: (superior) \subseteq Employee(id)

Workplace(employee, cinema, salary)

FK: (employee) \subseteq Employee(id)

FK: (cinema) \subseteq Cinema(name)

Position(employee, position)

FK: (employee) \subseteq Workplace(employee)

06: Auditorium

Auditorium(number, cinema, capacity)

FK: (cinema) \subseteq Cinema(name)

07: Screening

Movie(title, year)

Screening(date, time, auditorium, cinema, movie, year, price)

FK: (auditorium, cinema) \subseteq Auditorium(number, cinema)

FK: (movie, year) \subseteq Movie(title, year)

08: Ticket

Ticket(id, seat, row, date, time, auditorium, cinema, price)

FK: (date, time, auditorium, cinema) \subseteq Screening(date, time, auditorium, cinema)

PaperTicket(id)

FK: (id) \subseteq Ticket(id)

ElectronicTicket(id, code)

FK: (id) \subseteq Ticket(id)

09: Purchase

User(email, password, name, surname)

Phone(user, phone)

FK: (user) \subseteq User(email)

PaperTicket(id, employee)

FK: (id) \subseteq Ticket(id)

FK: (employee) \subseteq Employee(id)

ElectronicTicket(id, code, user)

FK: (id) \subseteq Ticket(id)

FK: (user) \subseteq User(email)

10: Rating

Rating(user, movie, year, cinema, stars)

FK: (user) \subseteq User(email)

FK: (movie, year) \subseteq Movie(title, year)

FK: (cinema) \subseteq Cinema(name)