



Relational algebra

Queries in relational algebra

Exercise n. 1

DRUG (DrugCode, DrugName, Category)

PATIENT (PatientCode, PatientName, BirthDate)

DOCTOR(DoctorCode, DoctorName)

SALE(DrugCode, PatientCode, Date, DoctorCode, Quantity, Amount)

- ⊳ Find the codes of patient that have bought at least two drugs of the same category in the same day.

Exercise n. 2

CUSTOMER (CustCode, CustName, Gender, AgeRange,
CustCountry)

VACATION-RESORT (ResCode, ResName, ResType,
Location, ResCountry)

RESERVATION(CustCode, StartDate, EndDate, ResCode)

- ⇒ Find the codes of customers that reserved only resorts located in their country.

Exercise n. 3

PRODUCT(PCode, PName, Brand, Price)

SHOP(SCode, SName, DateOpening, City)

SALE(PCode, SCode, SaleStartDate, Duration, DiscountPercentage)

- Σ Show the code and name of products of the "Puma" brand that have been on sale at least twice in the same shop with a discount higher than 60%.