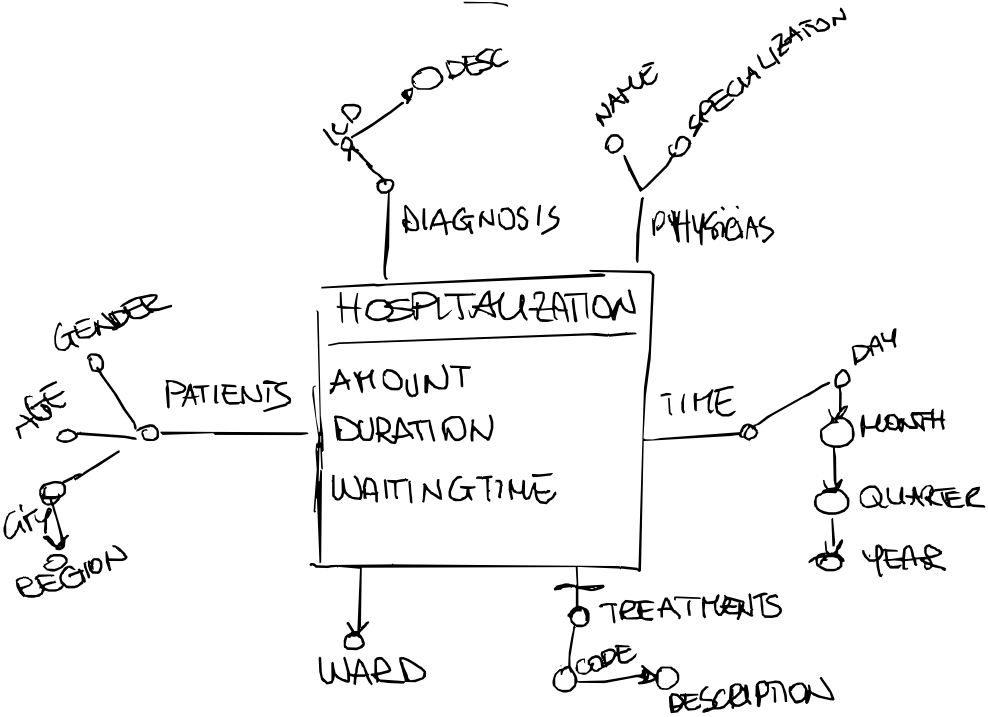
HOSPITALISATION

REQ	DIMENSIONS	MEAS.	METRICS
Q1	DIAGNOSIS (ICD, DESC) TIME (MONTH, YEAR)	AMOUNT	TOTAL AMOUNT
Q2	WARD PATIENT (GENDER, AGE, CITY, REGION)	AMOUNT	TOTAL HOSPIT. TOTAL AMOUNT
Q3	DIAGNOSIS (ICD, DESC) PHYSICIAN (NAME, SPECIALIZATION)	AMOUNT DURATION WAITING_TIME	TOTAL AMOUNT AVG DUR AVG_WT
Q4	PATIENT (AGE, REGION) TREATMENTS (CODE, DESC)	AMOUNT WAITING TIME	TOTAL AMOUN AVG_WT

FACT

DESC	HOSPITALISATIONS
MEASURE	AMOUNT, DURATION, WAITING TIME
DIMENSIONS	DIAGNOSIS, TIME, WARD, PATIENT TREATMENTS, PHYSICIAN



OPERATIONAL DATABASE

PK	NAME	CITY	CUSTOMER REGION
1	ANNA	PISA	TOSCANA
2	VALE	PISA	TOSCANA
3	LORENZO	LIVORNO	TOSCANA
4	GIULIO	LIVORNO	TOSCANA

PRIMARY KEY

SK	CODE	NAME	CITY	REGION
1	1	ANNA	PISA	TOSCANA
2	2	VALE	PISA	"
3	3	LORE	LIVORNO	"
4	4	GIULIO	LIVORNO	"

SK	CODE	NAME		
1	1	ANNA	PISA	TOSCANA
2				
3				
4				
5	1	ANNA	LIVORNO	TOSCANA

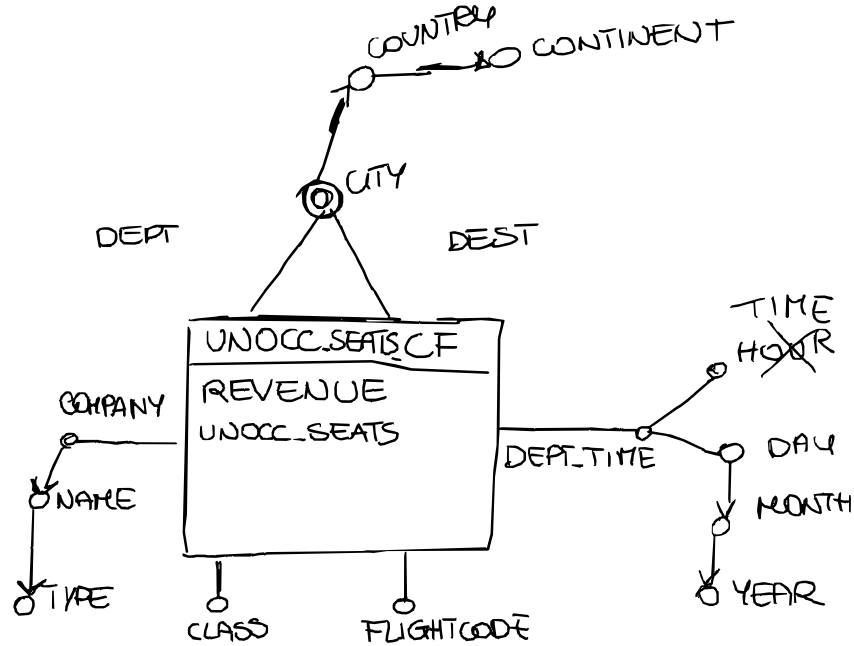
AIRLINE COMPANIES

REQ	DIMENSIONS	MEASURE	METRICS
Q1	FLIGHT (CODE) COMPANY (NAME, TYPE) CLASS DEPT_TIME (HOUR, DAY, MONTH, YEAR)	UNOCCUPIED SEATS	TOTAL UNOCCUP. SEATS
Q2	FLIGHT (CODE) COMPANY (NAME) CLASS DEPARTURE (CITY, COUNTRY, CONTINENT) DESTINATION (CITY, COUNTRY, CONTINENT) DEPT_TIME (YEAR)	UNOCCUPIED SEATS	TOTAL UNOCC. SEATS
Q3	COMPANY (NAME) DEPT_TIME (YEAR, MONTH) DESTINATION (COUNTRY)	REVENUE UNOCCUP. SEATS	TOT_REV TOTAL UNOCC. SEATS

FACT

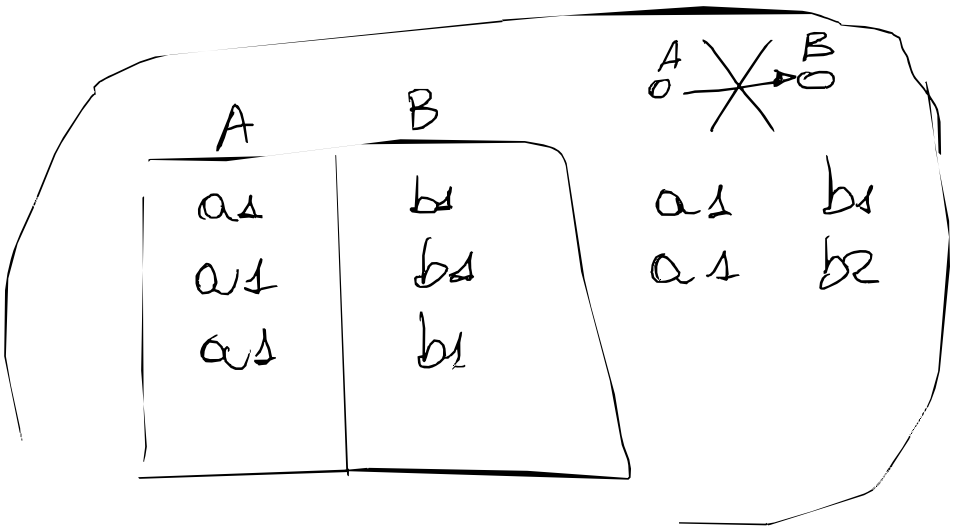
DESC	UNOCCUPIED SEATS PER FLIGHT AND CLASS
DIMENSIONS	FLIGHTCODE, DEPTTIME, CLASS, DEPARTURE, DESTINATION, COMPANY
MEASURE	REVENUE, UNOCCUPIED SEATS

CONCEPTUAL MODEL

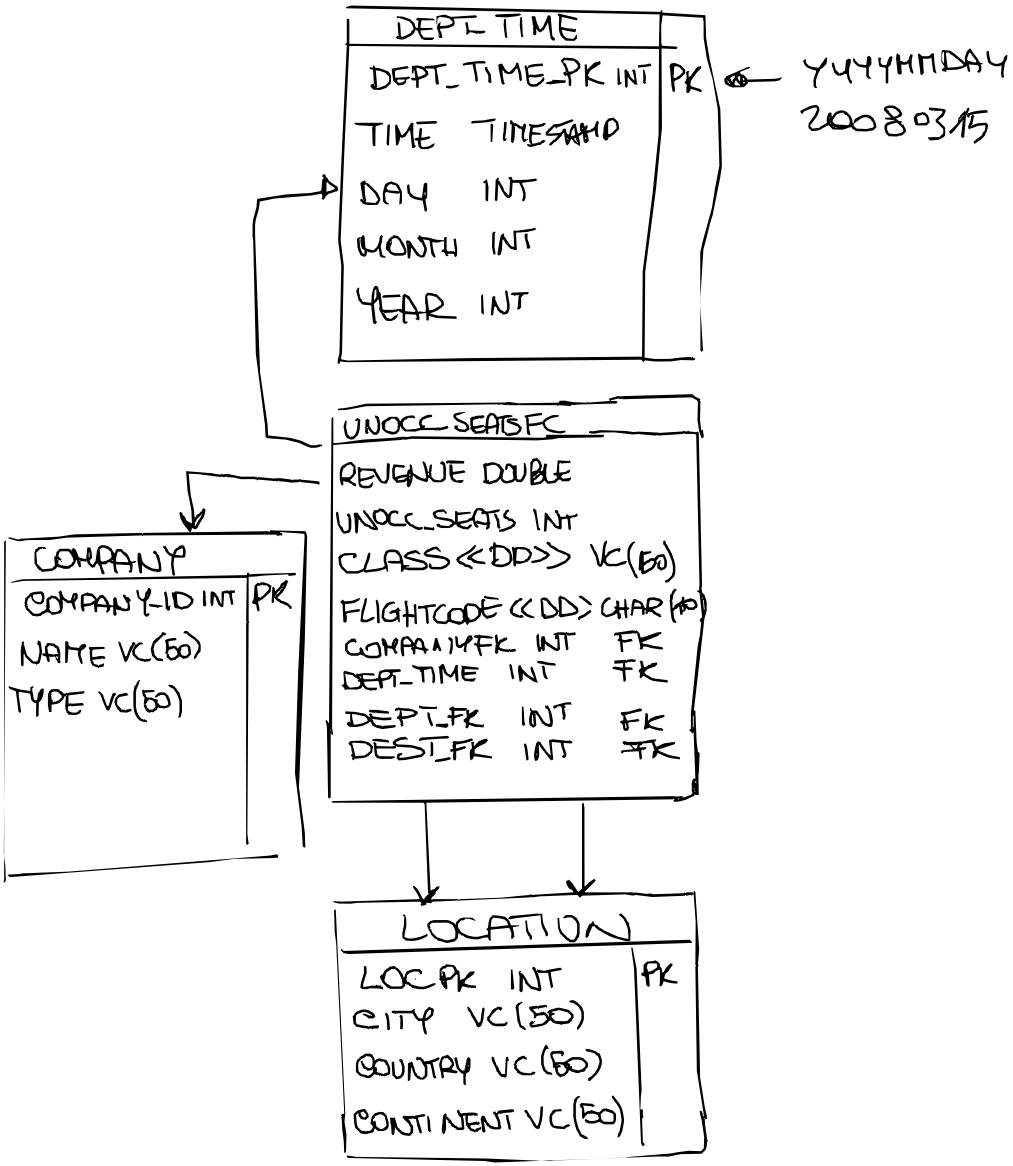


REVENUE → additive

UNOCC_SEATS → additive



LOGICAL MODEL



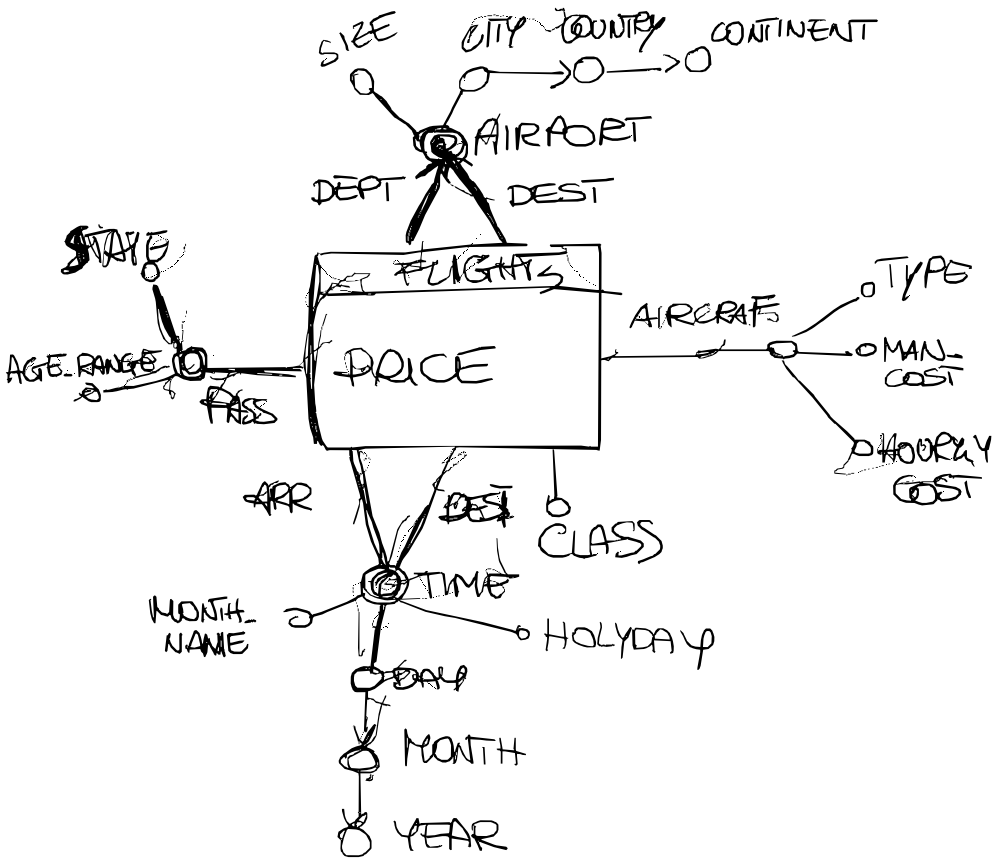
AIRLINE FLIGHTS

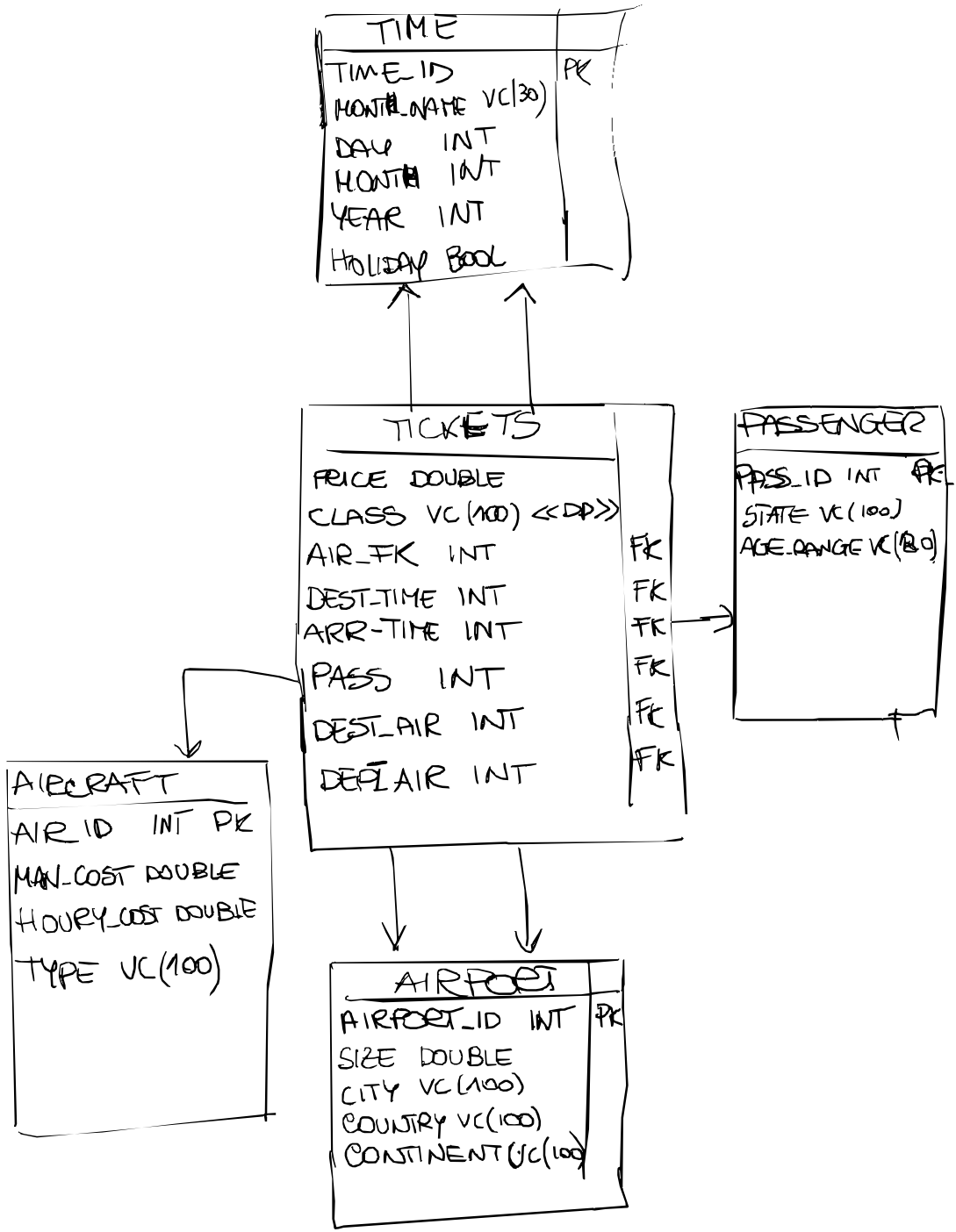
REQUIREMENTS SPECIFICATIONS

REQ	DIMENSIONS	MEASURE	METRICS
Q1	DEPT_TIME(YEAR, MONTH) PASSENGER(AGE_RANGE, STATE) CLASS	—	N. of passenger
Q2	PASSENGER(STATE, AGE_RANGE) DEPT_TIME(YEAR, MONTH) DEPT_AIRPORT(CONTINENT) DEST_AIRPOR(COUNTRY)	PRICE	N. of passenger TOTOR_REV
Q3	DEPT_AIRPORT(CITY) DEST_AIRPORT(CITY	—	N. of FLIGHTS
Q4	DEPT_TIME(MONTH) AIRCRAFT(TYPE) DEST_AIRPORT(COUNTRY)	—	AVG_passenger
Q5	CLASS DEPT_TIME(HOLIDAY)	—	AVG_passenger
Q6	DEPT_TIME(YEAR) DEST_AIRPORT(SIZE)	—	N. of passenger
Q7	DEST_AIRPORT(COUNTRY) AIRCRAFT(TYPE, MAN_COST) ARRIVAL_TIME(MONTH, QUARTER)	~~MAN_COST~~	TOTAL_MANAG_COST N. of FLIGHTS
Q9	DEPT_TIME(MONTH, YEAR) DEST_AIRPORT(COUNTRY)	PRICE	TOTAL_REV
Q8	DEPT_AIRPORT(COUNTRY) DEST_AIRPORT(COUNTRY) AIRCRAFT(MAN_COST, HOURLY_OPER_COST)	PRICE	AVG_PROFIT

FACT GRANULARITY

DESCR	TICKET OF A PASSENGER
DIMENSIONS	PASSENGER, DEPT_TIME, CLASS, DEPT_AIRPORT, DEST_AIRPORT, AIRCRAFT, ARRIVAL-TIME
MEASURES	PRICE




TIME
TIME_ID
PK
MONTH_NAME VC(30)
DAY INT
MONTH INT
YEAR INT
HOLIDAY BOOL
TICKETS
PRICE DOUBLE
CLASS VC(100) <<DP>>
AIR_FK INT
FK
DEST_TIME INT
FK
ARR-TIME INT
FK
PASS INT
FK
DEST_AIR INT
FK
DEPT AIR INT
FK
PASSENGER
PASS_ID INT
PK
STATE VC(100)
AGE_RANGE VC(100)
AIRCRAFT
AIR_ID INT PK
MAN_COST DOUBLE
HOURY_COST DOUBLE
TYPE VC(100)
AIRPORT
AIRPORT_ID INT
PK
SIZE DOUBLE
CITY VC(100)
COUNTRY VC(100)
CONTINENT VC(100)