

INFO20003 Database Systems

Semester 2 2023

Assignment 1 feedback for Xu, Weiran (1454343)

Criterion	Available marks	Your mark
Conceptual Diagram		
Entities + Keys	4	3.2
Attributes	3	2.4
Multivalued / Composite / Derived attributes	2	2
Relationships	3	2.4
Key Constraints	3	3
Participation Constraints	3	3
Clarity / Readability / Correctness of notation	2	2
Physical Model - General Criteria		
PK/FK/PFK	4	3.2
Complexity Test (Superfluous Entities & Attributes)	3	3
Simplicity Test (Missing Entities & Attributes)	3	2.4
Data types	4	4
Null/Not Null	2	1.8
Relationship Labels	3	3
Understandability and readability of model in PDF file	3	3
Relationships: Cardinality	5	5
Relationships: Participation Constraints	4	1.6
Relationships: identifying, non-identifying	4	3.2
Physical Model - Business Rules		
Does CONCERT SERIES store Name, Artist, Promoter? (If broken into further entities, participation/key constraints correct?)	3	3
Are EVENT location, venue, URL stored? Can different values be stored per EVENT? Are these stored in a separate entity and correctly associated with CONCERT SERIES?	5	4
Are EVENT date/times stored? Is number of EVENTS per CONCERT SERIES derivable? Is waitlist flag stored?	4	4
Does ZONE store type, description, safetylimit? Can a ZONE be involved with just one event; can an EVENT have several zones? Does SEAT have a composite PK involving row/col, and the PK from ZONE?	6	5.4
Can we store the current state of FANS connecting with FANS?	3	1.8

Criterion	Available marks	Your mark
Can we store when fans first connected?		
Can we store sufficient FAN data including warnings? Proper mapping between 1:M FAN:AFFILIATIONS? Are Affiliations a lookup table?	3	2.4
Do TICKETs store correct data? Are payment processors ENUMed?	4	4
Can the correct relationship of TICKETs to FANs be mapped? Can the correct relationship of SEATs to TICKETs be mapped?	5	4
Are WAITLISTENTRIES storing correct data? Is there a correct mapping from WAITLISTENTRY to EVENT? Is a WAITLISTENTRY mapped to STAFF? Can relationship between WAITLISTENTRY +TICKET be calculated via a join on FAN?	5	4
Can we correctly capture the 3-ary between STAFF / EMPLOYER / EVENT? Is the employment date linked to the 3-ary? Are the employer details in an entity?	2	1.6
Can we record STAFF data correctly? Can STAFF be mapped with FAN account (optional relationship)?	2	1.2
Penalties		
Late penalty (if applicable)	0	0
Overall mark for Assignment 1	100	85.8

Personal feedback

Excellent work! Event should be a weak entity having identifying relationship with Concert, as they are identified by event Number and Concert PK. In conceptual model: FKs, including PFKs, are introduced during logical design stage (e.g. Seat and Fan in Ticket, and StaffMember in Waitlist). In physical model, the participation constraints do not match with the conceptual model, you may need to revise crow's foot notation for participation constraints. Several relationships are also missing, e.g. between Waitlist and Staff, and between Staff and Fan.