

## Assignment 1 feedback for Fu-Sheng Huang (1046432)

Criterion	Available marks	Your mark
<b>Physical model - general</b>		
Primary and foreign keys	4	2
Avoidance of unnecessary complexity	3	3
Avoidance of oversimplification	3	3
Data types	4	3
NULL / NOT NULL	2	2
Understandability and readability	3	3
<b>Physical model - relationships</b>		
Relationship labels	3	3
Cardinality	5	3
Participation constraints	4	2
Use of identifying and non-identifying relationships	4	2
<b>Physical model - business rules</b>		
Identification of all attributes of patient as per specifications	3	1
Identification of date, time, assigned doctor, cancellation time and status of the appointment booking	3	2
Ability to determine total number of patients a doctor has had consultation with in a given month	4	4
Ability to compute average wait time before an appointment for a given patient	4	3
Identification of name, Practitioner ID and working hours of the doctors	4	3
Ability to compute monthly income of a given doctor	5	3
Identification of issue and validity date of each prescription and dose & frequency of each medicine	5	2
Ability to determine prescription extensions with new issue & validity dates	5	3
Identification of Consultation as weak entity with appropriate PFKs	3	3
Modelling of standard tests as a look up table	4	1
Ability to store analysis text and multiple images against each test	5	5
<b>Conceptual model (Chen's notation)</b>		
Entities	4	3
Attributes	3	2

Criterion	Available marks	Your mark
<b>Conceptual model (Chen's notation) continued</b>		
Multivalued, composite and derived attributes	2	1
Relationships	3	2
Cardinality (one/many)	3	2
Participation constraints (mandatory/optional)	3	2
Clarity and readability	2	2
<b>Penalties</b>		
Late penalty (if applicable)	0	
<b>Overall mark for Assignment 1</b>	<b>100</b>	<b>70</b>

### Personal feedback

Hi Fu-Sheng,

Well done! You designed a good database system, it's definitely not an easy task but you still complete it nicely.

As far as I concern, you did a great job in identifying most of attributes, relationships and entities, but there were few minor errors, for instance, as required by spec the design solution should contain a standard test list for look up so it is better to make it as a new entity. Also, you might want to revise your choice of weak entities since some of entities are better to model as normal one. Lastly, prescriptions and tests were more like the products of consultation in this problem (no consultation no these two outcomes), therefore it would be better to let them have relationship with consultation rather than doctor/patient

Overall, it was a great design and I really enjoyed reading it, let me know if you have any questions about marking, good job!