

MARKING RUBRICS

Component Title	Assignment (Group)					Percentage (%)	17%
Criteria	Score and Descriptors					Weight (%)	Marks
	Excellent (9.0 – 10.0)	Good (7.0 – 8.5)	Average (5.0 – 6.5)	Need Improvement (3.0 – 4.5)	Poor (0 – 2.5)		
Task 1 - Requirement Analysis	<ul style="list-style-type: none"> All required functional (≥ 8) and non-functional (≥ 4) requirements are well defined, specific, and relevant. Assumptions are clearly stated and logical. 	<ul style="list-style-type: none"> Most requirements are complete and relevant with minor omissions or unclear assumptions. Shows good understanding of system needs. 	<ul style="list-style-type: none"> Some requirements missing or vaguely stated. Assumptions are minimal or partly unclear. Meets basic expectations. 	<ul style="list-style-type: none"> Few valid requirements identified. Many are generic or irrelevant. Assumptions poorly defined or missing. 	<ul style="list-style-type: none"> Very limited or incorrect requirements. No assumptions or unclear statements. Lacks understanding of system analysis. 	10	
Task 2A - Conceptual Design	<ul style="list-style-type: none"> Identifies 6 or more highly relevant entities accurately based on the scenario. Each entity includes complete, appropriate attributes with correct data types and clearly defined primary keys. 	<ul style="list-style-type: none"> Identifies 6 entities with minor errors or one less relevant choice. Attributes and data types are mostly correct; primary keys are specified for nearly all entities. 	<ul style="list-style-type: none"> Identifies 4-5 entities with partial relevance. Attributes are listed but some are missing, have unsuitable data types, or incomplete PK definitions. 	<ul style="list-style-type: none"> Identifies only 2-3 entities, with limited connection to the scenario. Attributes and data types are mostly missing or incorrect; PKs largely absent. 	<ul style="list-style-type: none"> Identifies fewer than 2 entities or entities are completely irrelevant. No meaningful attributes, data types, or PKs provided. 	10	

Task 2B - Conceptual Design	<ul style="list-style-type: none"> EERD is complete, accurate, and well-structured using Chen's model. All entities, relationships, attributes, cardinalities, and participation constraints are correctly represented. Includes enhanced features (e.g., specialization/generalization, weak entities, composite or multivalued attributes). 	<ul style="list-style-type: none"> EERD is mostly correct and clear. Minor errors in relationships, symbols, or constraints. Cardinalities and participation are mostly accurate. Enhanced features are included but may have slight inaccuracies. 	<ul style="list-style-type: none"> EERD shows a basic structure with most entities and relationships identified, but several issues in cardinalities or participation constraints. Enhanced features are partially or incorrectly applied. 	<ul style="list-style-type: none"> EERD is incomplete or inaccurate. Relationships, cardinalities, and participation are mostly missing or incorrect. Minimal or no use of enhanced features. 	<ul style="list-style-type: none"> EERD is missing or severely flawed. Does not follow Chen's model. Lacks correct entities, relationships, and constraints. No enhanced features used. 	10
Task 3 - Logical Design	<ul style="list-style-type: none"> Complete and accurate relational schema derived from EERD. All entities, relationships, PKs, and FKs are clearly and correctly defined with proper notation. 	<ul style="list-style-type: none"> Relational schema mostly corrects with minor errors or missing attributes/keys. Relationships and constraints are clearly shown. 	<ul style="list-style-type: none"> Schema conversion done but with several mistakes or incomplete key definitions. Some relationships unclear or inconsistent with EERD. 	<ul style="list-style-type: none"> Incomplete or inaccurate schema. Multiple entities or keys missing, with poor relational mapping from EERD. 	<ul style="list-style-type: none"> Minimal or incorrect attempt at schema conversion. PKs and FKs not identified or incorrectly defined. 	10

Task 4 - Design Justification - Avoiding Double Bookings	<ul style="list-style-type: none"> Provides a comprehensive and accurate explanation of how the design fully meets all sport complex system requirements. Clearly explains mechanisms or logic preventing double bookings with strong justification and relevant design evidence (e.g., constraints, validation rules, scheduling logic). 	<ul style="list-style-type: none"> Explains how the design meets most system requirements with minor gaps or limited technical detail. Shows clear understanding of how double booking is prevented but lacks depth in justification. 	<ul style="list-style-type: none"> Provides a general explanation of system requirements and prevention of double bookings, but details are limited or partially correct. The design's preventive approach is mentioned but not well-supported. 	<ul style="list-style-type: none"> Provides minimal or unclear explanation of system requirements. Double booking prevention is mentioned vaguely or incorrectly. 	<ul style="list-style-type: none"> Provides little or no explanation of how the design meets requirements or prevents double bookings. Irrelevant or incomplete answer. 	9
Task 5 - Access control	<ul style="list-style-type: none"> Three or more clear and relevant user roles with well-explained responsibilities. Access types for each table are complete, accurate, and justified. Strong understanding of role-based access control and data security principles. 	<ul style="list-style-type: none"> Three user roles with clear explanations. Access types mostly correct with minor mistakes or missing details. Shows good understanding of user role segregation and database access. 	<ul style="list-style-type: none"> Roles and access types provided but lack detail or clarity. Some errors or incomplete mapping. Demonstrates basic understanding of access control concepts. 	<ul style="list-style-type: none"> Fewer than three roles or unclear explanations. Access types are mostly incorrect or incomplete. Shows limited understanding of role-based permissions. 	<ul style="list-style-type: none"> Roles and access not stated or irrelevant to the system. No clear mapping of access privileges to database tables. Shows no understanding of access control or role design. 	12

Task 6 - Database Integrity	<ul style="list-style-type: none"> Clearly and accurately explains how all three (entity, referential, and domain) integrities are enforced with correct examples or constraints (e.g., primary key, foreign key, data types, check constraints). 	<ul style="list-style-type: none"> Explains all three integrity types clearly, but with minor errors or limited examples. Shows good understanding of database integrity concepts. 	<ul style="list-style-type: none"> Provides basic explanation for each integrity type, but lacks depth or has some inaccuracies. Examples or enforcement details are minimal. 	<ul style="list-style-type: none"> Mentions some integrity types but explanations are unclear or mostly incorrect. Shows limited understanding of how integrity is enforced. 	<ul style="list-style-type: none"> Fails to explain the integrity types or provides irrelevant/inaccurate information. Shows no clear understanding of the concept. 	12	
Task 7 - Database Transaction	<ul style="list-style-type: none"> Clearly explains how the database ensures all four ACID properties with correct examples (e.g., transactions, constraints, rollback, commit, isolation levels). 	<ul style="list-style-type: none"> Explains all four properties well with minor errors or missing small technical details. 	<ul style="list-style-type: none"> Basic explanation of ACID in database context; some points unclear or incomplete. 	<ul style="list-style-type: none"> Mentions some ACID properties but lacks clear explanation of how the database enforces them. 	<ul style="list-style-type: none"> Explanations are mostly incorrect or missing. Shows little understanding of ACID in databases. 	12	
TOTAL						85	

Note to students: Please include the marking rubric above only when submitting your coursework.

Component Title	Peer Evaluation (Individual) - CLO2, PLO4		Percentage (%)	3%	
Criteria	Score and Descriptors				Individual Member Evaluation (Name & Score)
	Highly Professional (9 - 10)	Professional (6 - 8)	Participating (3 - 5)	Unprofessional (0 - 2)	
Contributions & Attitude	<ul style="list-style-type: none"> Always cooperative. Routinely offers useful ideas. Always displays positive attitude. 	<ul style="list-style-type: none"> Usually, cooperative. Usually offers useful ideas. Generally, displays positive attitude. 	<ul style="list-style-type: none"> Sometimes cooperative. Sometimes offers useful ideas. Rarely displays positive attitude. 	<ul style="list-style-type: none"> Seldom cooperative. Rarely offers useful ideas. Is disruptive. 	Deng Kailong (Leader): 10 Du Zhixuan: 10 Min Yiduo: 10 Pan Ziliang: 10 Tao Ouwen: 10
Cooperation with Others	<ul style="list-style-type: none"> Did more than others. Highly productive. Works extremely well with others. 	<ul style="list-style-type: none"> Did own part of workload. Cooperative. Works well with others. 	<ul style="list-style-type: none"> Could have shared more of the workload. Has difficulty. Requires structure, directions, & leadership. 	<ul style="list-style-type: none"> Did not do any work. Does not contribute. Does not work well with others. 	Deng Kailong (Leader): 10 Du Zhixuan: 10 Min Yiduo: 10 Pan Ziliang: 10 Tao Ouwen: 10
Focus, Commitments	<ul style="list-style-type: none"> Tries to keep people working together. Almost always focused on the task. Is very self-directed. 	<ul style="list-style-type: none"> Does not cause problems in the group. Focuses on the task most of the time. Can count on this person. 	<ul style="list-style-type: none"> Sometimes focuses on the task. Not always a good team member. Must be prodded & reminded to keep on task. 	<ul style="list-style-type: none"> Often is not a good team member. Does not focus on the task. Let's others do the work. 	Deng Kailong (Leader): 10 Du Zhixuan: 10 Min Yiduo: 10 Pan Ziliang: 10 Tao Ouwen: 10
Team Role Fulfillment	<ul style="list-style-type: none"> Participates in all group meetings. Assumes leadership role. 	<ul style="list-style-type: none"> Participates in most group meetings. Provides leadership when asked. 	<ul style="list-style-type: none"> Participates in some group meetings. Provides some leadership. 	<ul style="list-style-type: none"> Participates in few or no group meetings. Provides no leadership. 	Deng Kailong (Leader): 10 Du Zhixuan: 10 Min Yiduo: 10

	<ul style="list-style-type: none"> • Does the work that is assigned by the group? 	<ul style="list-style-type: none"> • Does most of the work assigned by the group. 	<ul style="list-style-type: none"> • Does some of the work assigned by the group. 	<ul style="list-style-type: none"> • Does little or no work assigned by the group. 	Pan Ziliang: 10 Tao Ouwen: 10																		
Ability to Communicate	<ul style="list-style-type: none"> • Always listens to, shares with, & supports the efforts of others. • Provides effective feedback. • Relays a lot of relevant information. 	<ul style="list-style-type: none"> • Usually listens to, shares with, & supports the efforts of others. • Provides some effective feedback. • Relays some basic information that relates to the topic. 	<ul style="list-style-type: none"> • Often listens to, shares with, & supports the efforts of others. • Rarely listens to others. Provides little feedback. • Relays very little information that relates to the topic. 	<ul style="list-style-type: none"> • Rarely listens to, shares with, or supports the efforts of others. • Less talking & never listens to others. • Provides no feedback. • Does not relay any information to teammates. 	Deng Kailong (Leader): 10 Du Zhixuan: 10 Min Yiduo: 10 Pan Ziliang: 10 Tao Ouwen: 10																		
Accuracy	<ul style="list-style-type: none"> • Work is complete, well-organized, error-free, & done on time or early. 	<ul style="list-style-type: none"> • Work is generally complete, meets the requirements of the task, & is mostly done on time. 	<ul style="list-style-type: none"> • Work tends to be disorderly, incomplete, inaccurate, & is usually late. 	<ul style="list-style-type: none"> • Work is generally sloppy & incomplete, contains excessive errors, & is mostly late. 	Deng Kailong (Leader): 10 Du Zhixuan: 10 Min Yiduo: 10 Pan Ziliang: 10 Tao Ouwen: 10																		
Total over 60 		<table border="1" style="width: 100%; text-align: center;"> <thead> <tr> <th>Deng Kailong (Leader)</th> <th>Du Zhixuan</th> <th>Min Yiduo</th> <th>Pan Ziliang</th> <th>Tao Ouwen</th> <th></th> </tr> </thead> <tbody> <tr> <td>60</td> <td>60</td> <td>60</td> <td>60</td> <td>60</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Deng Kailong (Leader)	Du Zhixuan	Min Yiduo	Pan Ziliang	Tao Ouwen		60	60	60	60	60										
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