

**D    B    S**

**DBS – Lab 01 A ‘gentle’ Introduction to Relational Algebra.**

Category	Description	Points											
			1	2	3	4	5	6	7	8	9	10	11
Environment Setup	Correct installation and configuration of Python, radb, and sample databases (applications.db, beer.db, pizza.db). Demonstrates ability to run the interpreter and basic commands.	10											
Beer Database Exercises	Completes all required queries from radb documentation (excluding long/aggregation queries). Provides correct relational algebra expressions, radb code, and captured outputs.	20											
Pizza Database Queries	Solves all 5 guided queries with correct relational algebra expressions, radb code, and answers. Results are clearly presented and correct.	25											
Proposed Query (Pizza DB)	Designs an original query, expresses it in relational algebra, provides radb code, and documents results clearly. Demonstrates creativity and understanding.	10											
Lab Defense	Clear explanation/defense of the lab work, either oral or written. Student demonstrates understanding of concepts and can answer questions about their solutions.	20											
Report Quality	Report is well-structured (sections, formatting, labeled queries, results). Clarity, readability, and logical flow. Includes both PDF report and `ra` code file.	10											
Independent Work & Completeness	Submission meets deadlines, contains all required components (ZIP archive with PDF + .ra). Shows independence in completing exercises.	5											
<b>Total:</b>			100										