

Database Design – Final Exam Study Guide

Name _____ Date _____

Part I Directions: Answer each question.

1. What are the benefits the Oracle 10g Database Environment provides for business?
Oracle's 10g database management system gives businesses the ability to coordinate and share computing, application, data, storage, or network resources across dynamic and geographically dispersed organizations and in turn save time, resources and money.
2. What services and products does Oracle provide?
Information Technology services and products.
3. What is a relational database?
A relational database is a group of data stored in tables that are related by means of a common field.
4. What is the difference between application and system software? Provide an example.
Systems software consists of low-level programs designed to interact with the computer hardware. Application Software is the code that allows end users to interact with computers, like for instance Firefox for browsing the internet, Microsoft Word for writing documents, Application Express for developing applications and also for accessing and manipulating data in an Oracle Database.
5. How is data extracted from the database?
Data is extracted from the database by the SELECT statement.
6. Name two benefits of a career portfolio?
 - To organize the many details of one's experiences
 - To help with goal setting
7. What is the difference between a projection, a selection, and join statement?
 - Use the projection capability in SQL to choose the columns in a table.
 - Use the selection capability in SQL to choose the rows in a table.
 - Use the join capability in SQL to choose the columns from more than one table.
8. How are all rows in a table selected? Provide an example.
SELECT *
FROM employees;
9. How are only specific rows in a table selected? Provide an example.
SELECT employee_id, last_name
FROM employees
WHERE salary < 3000;
10. What is a query? Provide an example.
A query is a search for specific data to help make a decision. Examples will vary.

Database Design Final Exam Study Guide Answers

**Alberto H.F. Laender, Stephen W.
Liddle, Veda Storey**



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web dibenzalacetone was synthesized in the lab from benzaldehyde and acetone under basic conditions the gc ms was used to relate the molar mass of the product thin layer chromatography was used to visualize the relative rf factor for each isomer uv vis instrument showed three peaks that were assigned to each isomer

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web an aldol reaction was performed by combining acetone and benzaldehyde to make dibenzalacetone the percent yield of dibenzalacetone was found to be 73 which is a good percent yield the melting point of dibenzalacetone was around the range of 104 110 c this helped conclude that dibenzalacetone had a trans trans e e isomer

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web oct 25 2013 experiment performed on may 6 and 8 2003 br the purpose strong of strong this experiment was to synthesize dibenzalacetone via an aldol condensation reaction br between acetone and benzaldehyde this was done by mixing the two reactants with naoh and ethanol br

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web dibenzalacetone a introduction in an aldol condensation two molecules of aldehyde or ketone are joined together along with the loss of water for example in the aldol condensation shown in figure 1 two molecules of ethanal are reacted to produce an a b unsaturated aldehyde and water figure 1 aldol condensation of ethanal to