

ECDL / ICDL Advanced Database Sample Test

Syllabus Version 2.0

22nd November 2010

Sample Test

SAMPLE TEST FOR ECDL / ICDL ADVANCED DATABASE

The following is a sample test for ECDL / ICDL Advanced Database. As with the certification test, the sample test contains 20 questions. The suggested test duration for this sample test is 60 minutes, which is the same duration as the certification test.

The purpose of this sample test is to allow candidates to experience the structure and content of ECDL / ICDL Advanced tests. All test items within ECDL / ICDL Advanced tests are based on ECDL / ICDL Advanced Syllabus Version 2.0. For further information about the coverage of Skill Sets and Knowledge Areas in ECDL / ICDL Advanced tests please refer to ECDL / ICDL Advanced Syllabus Version 2.0 on <http://www.ecdl.org>

This sample test must only be used for candidate preparation and **must not** be used under any circumstances for certification testing.

Pass Mark

The pass mark for certification tests is 75%.

Measurement Units

Default measurements (margins, indents, tabs etc.) are expressed in centimetres.

Naming Conventions

The following naming and reference conventions have been adopted within the ECDL / ICDL Advanced tests and sample tests. References to file names, file extensions, folders, URL's (Uniform Resource Locators), hyperlinks, image links, Web pages, e-mail messages, field identification names etc., together with textual insertions are presented in ***bold italic*** for ease of identification within the test paper. Naming or insertion actions for text or numeric data should be added without any formatting except where a formatting action is requested as part of the question item.

ECDL / ICDL Advanced Database Sample Test

The following sample test for Advanced Database is based on analysing a database named **Auctioneers** that contains data on items for sale and customers. In the sample test amongst other things you are asked to answer theory questions, change the design properties of specific fields, design advanced queries to extract data, import data and perform calculations on data using various functions.

This sample test consists of 20 questions with 5 marks available for each question.

1. Open the file named **answerfile.doc** from your candidate drive.

- 1.1 Which one of the following is a database model?

Enter your answer (a, b, c, or d) in the **answerfile** (Q1.1 space provided).

- a. Macro.
 - b. SQL.
 - c. Object-oriented.
 - d. Referential Integrity.

[2.5 Marks]

- 1.2 Which one of the following life cycle stages includes defining the relationship between different data subject areas and their attributes in a database.

Enter your answer (a, b, c, or d) in the **answerfile** (Q1.2 space provided).

- a. Logical design.
 - b. Data entry.
 - c. Data maintenance.
 - d. Information retrieval.

[2.5 Marks]

Save and close the **answerfile**.

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ECDL / ICDL Advanced Database Sample Test (Contd.)

2. Open the **Auctioneers** database from your candidate drive.
Open the **Items** table:
 - a. Modify the **Item ID** field to ensure values are **required**. [2 Marks]
 - b. Modify the **Customer ID** field to ensure values are restricted to the lookup list. [2 Marks]
 - c. Apply a setting to the **Status** field to ensure that all characters entered will display in Uppercase. [1 Mark]
3. In the **Items** table create a lookup for the **Status** field that will allow a selection from the values **Available** and **Sold**. Accept all other default settings. Save, ensuring data is tested with the new rules and close the table. [5 Marks]
4. Create a one to many relationship between the **Sales** table and the **Items** table. Enforce referential integrity. Save and close the relationships window. [5 Marks]
5. Open the Listing query:
Modify the join between the tables to show all customers with or without an item purchased. Run, save and close the query. [5 Marks]
6. Open the **Over 500** query:
Modify the query so that it will create a table named **Expensive Items** if an item has a sale price of €500 or more. Run, save and close the query. [5 Marks]
7. Open the **Sum Up** query:
Modify the query to show the total quantity of items purchased for each Customer ID. Run, save and close the query. [5 Marks]
8. Open the **Name Change** query:
Modify the query so that it will update any records in the **Customers** table by replacing the **Last Name** field value of **Larson** with **Lewis**. Run, save and close the query. [5 Marks]
9. Open the **Reserve v Sale Price** query:
Add an expression named **Difference** that will calculate the **Reserve Price** subtracted from the **Sale Price**. Run, save and close the query. [5 Marks]

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10. Open the **Price Range** query:
- a. Add a criterion under the **Reserve Price** field with the prompt **Enter reserve price.** [2 Marks]
 - b. Add a criterion under the **Sale Price** field with the prompt **Enter maximum sale price.** The query will then show all records equal to the reserve price entered and below the sale price entered. [2 Marks]
 - c. Check that 2 records are returned when the query is run looking for all items with a reserve price of **100** and a maximum sale price of **100**. Save and close the query. [1 Mark]
11. Create an unmatched query named **No Purchase** that will display the **Customer ID**, **First Name** and **Last Name** fields of any records in the **Customers** table that do not have a matching record in the **Items** table. Run, save and close the query. [5 Marks]
12. Open the **Review Commission** query:
Modify the query to show only the 3 lowest values for **Commission**. Run, save and close the query. [5 Marks]
13. Open the **Commission** form:
- a. Insert a new control below the **Sum of Sales:** control with the caption **Date of Joining:**. Ensure the caption is clearly visible. [3 Marks]
 - b. Set the control source for the new control to be the **Date of Joining** field from the **Sales** table. Save and close the form. [2 Marks]
14. Open the **Staff Review** form. Apply settings to the **Reported to:** control:
- a. To ensure entered values are restricted to the lookup list. [2 Marks]
 - b. To ensure that **Other** is also available in the lookup list. Save and close the form. [3 Marks]
15. Open the **Sales** report:
Modify the unbound **Name** control so it will concatenate the **First Name** and **Last Name** fields with a space between them.
Delete the **First Name** and **Last Name** controls.
Save and close the report. [5 Marks]

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16. Open the **Item Totals** report:
- a. Modify the **Total Sale Price** control in the report footer so that it will calculate the total **Sale Price** for all records. [3 Marks]
 - b. Format the **Total Sale Price** control to display as Euro. Ensure the value is clearly visible. [1 Mark]
 - c. Use the caption **Total Sales** for the **Total Sales** label. Ensure the caption is clearly visible. [1 Mark]
- 17.a. Modify the report settings to ensure the records are grouped by **Salesperson ID** in ascending order with a group header. [4 Marks]
- b. Move the **Salesperson ID** control to the group header. Save and close the report. [1 Mark]
18. Open the **Customer Purchases** report:
- Force automatic page breaks to ensure each Customer ID displays on a separate page. Ensure there are no blank pages. Save and close the report. [5 Marks]
19. Import the **Contacts** spreadsheet from your candidate drive into the **Auctioneers** database as a new table named **Contacts**. Use the first row as field names and **Salesperson ID** as the primary key. Accept all other default settings. [5 Marks]
20. Open the **Commission** form:
- Apply the **showcom** macro to the command button named **Show Commission** in the form footer. This macro will display the **Commission** caption and control when the **Show Commission** button is clicked. Save and close the form. [5 Marks]
- Save and close all open objects and close any open applications.

END OF SAMPLE TEST