

Database Design

5-4: Understanding CRUD Requirements

Practice Solutions

Vocabulary

Directions: Identify the vocabulary word for each definition below.

| | |
|---------------|--|
| Consultant | One who gives expert or professional advice |
| CRUD analysis | The practice of checking a data model for create, retrieve, update, and delete functions that the business requires |
| Functions | Used to perform calculations on data, modify individual data items, manipulate output for groups of rows, format dates and numbers for display, and convert column datatypes |
| Obsolete | No longer in use |

Try It / Solve It

1. Identify the part of the CRUD analysis that best suits the task in the table.

- Create
- Retrieve
- Update
- Delete

| | |
|----------|-----------------|
| Alter | Update |
| Bring up | Retrieve |
| Change | Update |
| Discard | Delete |
| Enter | Create |
| Find | Retrieve |
| Import | Create |
| Input | Create |
| Load | Create |
| Look up | Retrieve |
| Modify | Update |

| | |
|--------|-----------------|
| Print | Retrieve |
| Purge | Delete |
| Read | Retrieve |
| Record | Create |
| Remove | Delete |
| Report | Retrieve |
| Trash | Delete |
| View | Retrieve |

2. Relate CRUD analysis to a school enrollment environment. Consider the data or information used in a school and identify at least one example for each CRUD function.

Solution:

Answers will vary. Suggested responses:

Create – As new students enter the school, they will need to be added to the database.

Retrieve – The school must retrieve attendance and grade records for specific reports and meetings.

Update – When a student's address, course grade, or parent contact changes, it must be updated.

Delete – After five years, attendance records of students need to be deleted from our records.