Lab 7 CRUD, transferability, hierarchical model (pts. 3)

Retrieve

Retrieve

Create

Create

**Submission requirements:**

Note: Work submitted must belong to you, if it matches with someone else, your work will be graded as 0 and will be reported to Associate Dean.

Attendance is mandatory to receive grade.

* Use any software to draw ERD. You can use Data Modeler. Follow the link to draw ERD : [Introduction to SQL Developer Data Modeler - YouTube](https://www.youtube.com/watch?v=wsVh1zLmQb0)
* Take screen capture of the data model and embed it under the question.
* Complete rest of the questions in the same document.
* Resave the document with your name\_lab#\_db. (E.g Amrit\_lab#\_db)
* SUBMIT ONLY WORD DOCUMENT, PDF or COPY PASTE YOUR ANSWER IN THE TEXT AREA PROVIDED.
* Submit the document in link provided in assignment section.
* OR complete the lab manually and submit the hardcopy.

1. Identify the part of the CRUD analysis that best suits the task in the table. (pts. 1)
   * Create
   * Retrieve
   * Update
   * Delete

Delete

Update

|  |  |
| --- | --- |
| Task Description | Task Name |
| **Trash** all books that are 12 years old or more. |  |
| **Change** the contact name of the publisher named ‘McGRAW Hills’ to ‘Henry Wilson’ |  |
| **Fetch** inactive customers |  |
| **Find** customers who live in the state of ONTARIO |  |
| Database should be able to **import** all customers information when upgrading the system. |  |
| Who is responsible to **input** all the information into the database? |  |

|  |  |
| --- | --- |
| **Report** which books are making profit over $50. |  |
| **Replace** the cost of the book DATABASE MANAGEMENT’ to $120. |  |
| **Print** the price of the most expensive book. |  |
| **View** all the inventory of our products. |  |
| **Read** all new customers who has placed order for ‘COMPUTER PROGRAMMING ‘ books. |  |
| **Record** all new arrivals into the database. |  |
| **Remove** the customers who did not place an order since last 5 years. |  |
| **Look up** for books published by the publisher ‘McGraw Hiils’. |  |
| **Purge** all discontinued PRODUCTS |  |

3

Retrieve

Update

Create

Retrieve

Retrieve

Create

Delete

Retrieve

Delete

a. 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. Hint: see some examples in Q1 a.

Add new students

Retrieve class code

|  |  |
| --- | --- |
| Create: |  |
| Retrieve: |  |
| Update: |  |
| Delete: |  |

1. Draw ERDs (conceptual model) for each of the following. Label each relationship in both directions. Indicate non-transferability when appropriate. (pts.1)

Update tuition

Remove resigned teachers/professors

1. Each automobile must use one and only one tire size. Each tire size may be used by one or more automobiles.
2. Each school may be attended by one or more honor students. Each honor student must attend one and only one school.
3. Develop/Draw an ER diagram to represent the following organizational chart. Create the UID /PK and Fks for each entity. Examine your ERD, if possible, convert it into recursive relationship. (pts. 1)





