CSE 581

**Lab 8: Data Manipulation**

**Purpose:**

Work with tables – Fill the tables with data, extract the data.

**Deliverables:**

Multiple screenshots, as described through the lab.

Scripts that you used to carry out the actions.

**Steps:**

1. Insert the following data into the tables you created last lab in database CSE581labs. Make sure that the data matches perfectly.

*For each table* provide a **screenshot** of script execution as well as a **screenshot** of running a select against the table, displaying its data.

***USERS:***

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **NTID** | **FirstName** | **MiddleI** | **LastName** | **EmailAddress** | **Password** |
| 01-HJPotter | Harry | J | Potter | [hp@hw.edu](mailto:hp@syu.edu) | Hedwig |
| 02-RBWeasley | Ron | B | Weasley | [rw@hw.edu](mailto:rw@syu.edu) | Scabbers |
| 03-HJGranger | Hermione | J | Granger | [hg@hw.edu](mailto:hg@syu.edu) | Crookshanks |
| 10-Rlupin | Remus | <NULL> | Lupin | [rl@hw.edu](mailto:rl@syu.edu) | moon |
| 11-Fflitwick | Filius | <NULL> | Flitwick | [ff@hw.edu](mailto:ff@hg.edu) | <NULL> |
| 16-Rhagrid | Rubeus | <NULL> | Hagrid | [rh@hw.edu](mailto:rh@syu.edu) | BuckBeak |

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***COURSES:***

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CourseID** | **CourseCode** | **CourseTitle** | **Faculty** | **OpenSeats** |
| 1 | DADA101 | Defence Against the Dark Arts BASIC | 10-Rlupin | 3 |
| 2 | DADA201 | Defence Against the Dark Arts INTERMEDIATE | 10-Rlupin | 2 |
| 3 | DADA301 | Defence Against the Dark Arts ADVANCED | 10-Rlupin | 1 |
| 4 | CHMS101 | Charms BASIC | 11-Fflitwick | 2 |
| 5 | CHMS201 | Charms INTERMEDIATE | 11-Fflitwick | 0 |
| 6 | CHMS301 | Charms ADVANCED | 11-Fflitwick | 4 |
| 7 | HOM101 | History of Magic BASIC | <NULL> | 10 |

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***LETTER GRADES:***

|  |  |  |
| --- | --- | --- |
| **LetterGradeID** | **LetterGrade** | **Description** |
| 1 | O | Outstanding |
| 2 | E | Exceeds Expectations |
| 3 | A | Acceptable |
| 4 | P | Poor |
| 5 | D | Dreadful |
| 6 | T | Troll |

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***COURSE GRADING:***

|  |  |  |  |
| --- | --- | --- | --- |
| **GradingScaleID** | **LetterGradeID** | **CourseID** | **GradeValue** |
| 1 | 1 | 1 | 95 |
| 2 | 2 | 1 | 90 |
| 3 | 3 | 1 | 80 |
| 4 | 4 | 1 | 70 |
| 5 | 5 | 1 | 60 |
| 6 | 6 | 1 | 0 |
| 7 | 1 | 2 | 100 |
| 8 | 2 | 2 | 90 |
| 9 | 3 | 2 | 85 |
| 10 | 4 | 2 | 75 |
| 11 | 5 | 2 | 64 |
| 12 | 6 | 2 | 0 |

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***COURSE ENROLLMENT:***

|  |  |  |  |
| --- | --- | --- | --- |
| **EnrollmentID** | **StudentId** | **CourseID** | **FinalGrade** |
| 1 | 01-HJPotter | 1 | <NULL> |
| 2 | 01-HJPotter | 4 | <NULL> |
| 3 | 03-HJGranger | 1 | <NULL> |
| 4 | 03-HJGranger | 4 | <NULL> |
| 5 | 02-RBWeasley | 1 | <NULL> |
| 6 | 02-RBWeasley | 4 | <NULL> |
|  |  |  |  |

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***NEXT PAGE***

1. Make the following updates (use UPDATE and DELETE, as needed):

*For each data modification* provide a **screenshot** of script execution. When all of the changes were done, also provide a **screenshot** of all tables, displaying the new data.

1. Lupin has been fired. Assign his classes to Hagrid. Remove Lupin from the database.

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1. Harry has received a final grade of 96 in Defence Against the Dark Arts, and 91 in Charms.

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1. Ron has received a final grade of 91 in Defence Against the Dark Arts, and 88 in Charms.

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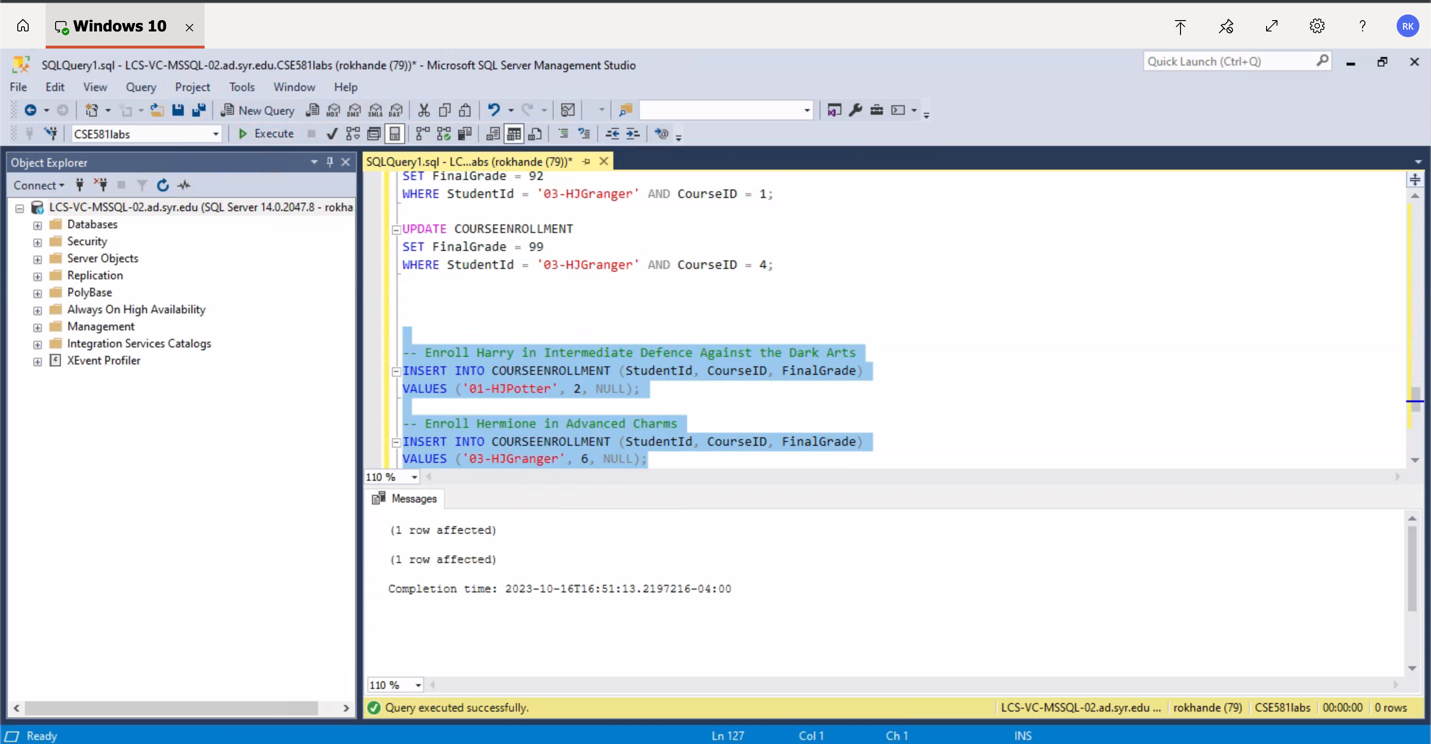
1. Hermione has received a final grade of 92 in Defence Against the Dark Arts, and 99 in Charms.

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1. Enroll Harry in Intermediate Defence Against the Dark Arts.
2. Enroll Hermione in Advanced Charms.

For both questions, screenshot below



TABLES AFTER UPDATE QUERIES.

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