

*SQL Essential*

Training Assignments

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| Program Code | SQLE |
| Version | 3.1 |
| Effective Date | 01/11/2016 |

**Hanoi, 11/2016**

RECORD OF CHANGES

\*A - Added M - Modified D - Deleted

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| --- | --- | --- | --- | --- |
| Date | Changes | A\* M, D | Contents | Version |
| 14-Oct-2016 | Create | A | Add the new assignments. | v1.0 |
| 14-Oct-2018 | Update | M | Template. | v1.1 |
| 01-Jun-2019 | Update | M | Update Objective | v1.2 |
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|  | **CODE: Assignment2\_Opt1**  **TYPE: n/a**  **LOC: n/a**  **DURATION: 180 MINUTES** |

# For the following assignments:

* Print out respectively the screenshots to show the query results.
* Pack screenshots and SQL scripts or your answers into the zip file named Assignment<i>\_AccountName.zip (for instance: Assignment1\_NamNT.zip) then handle to the evaluator via email ([XYZ@fsoft.com.vn](mailto:XYZ@fsoft.com.vn) ) or follow the guidance of the class admin.

# Lesson 2: SQL Basic

## Assignment 2\_Opt1: Fresher Training Management

**Barem**: a: 40% (4), b: 10%(1), c: 15%(1.5), d: 15%(1.5), e: 20%(2)

**Objective**: H5SD - SQL skills

**Problem Description**:

In the design for the Fresher Training Management, given the Trainee table with below initial attributes fields:

* **TraineeID**: trainee identifier, auto increment field
* **Full\_Name**: full name of the trainee
* **Birth\_Date**: trainee birth date
* **Gender**: only have one of two value male, female
* **ET\_IQ**: entry test point (IQ) of trainee, integer, value range from 0 to 20
* **ET\_Gmath**: entry test point (GMath) of trainee, integer, value range from 0 to 20
* **ET\_English**: entry test point (English) of trainee, integer, value range from 0 to 50
* **Training\_Class**: the class code that trainee is joining
* **Evaluation\_Notes**: trainee evaluation notes, free text.

**Questions to answer**:

1. Create the tables (with the most appropriate/economic field/column constraints & types) and add at least 10 records into each created table.
2. Change the table TRAINEE to add one more field named Fsoft\_Account which is a not-null & unique field.
3. Create a VIEW which includes all the ET-passed trainees. One trainee is considered as ET-passed when he/she has the entry test points satisfied below criteria:

* ET\_IQ + ET\_Gmath >=20
* ET\_IQ>=8
* ET\_Gmath>=8
* ET\_English>=18

1. Query all the trainees who is passed the entry test, group them into different birth months.
2. Query the trainee who has the longest name, showing his/her age along with his/her basic information (as defined in the table).

**Estimated Time to complete**:180 mins.

**-- THE END --**