

*Advanced SQL*

Training Assignments

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| Program Code | ASQL |
| 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: ASQL\_Assignment1\_Opt2**  **TYPE: Medium**  **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 ASQL\_Assignment1\_AccountName.zip (for instance: ASQL\_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.

# Day 1. Unit 1: Advanced DML Statements

## Assignment 1\_Opt2: Order Management

**Barems**: Q1: 30%, Q2.1-20%, Q2.2-20%, Q2.3-15%, Q2.4-15%

**Objectives**: H5SD - SQL skills

**Problem Descriptions**:

Question 1

Given the following database (the solid-underline fields indicate primary keys, dotted-underline fields indicate foreign keys)

* San\_Pham (Ma\_SP, Ten\_SP, Don\_Gia)
* Khach\_Hang (Ma\_KH, Ten\_KH, Phone\_No, Ghi\_Chu)
* Don\_Hang (Ma\_DH, Ngay\_DH, Ma\_SP, So\_Luong, Ma\_KH)

Write SQL statements for following activities & print out respectively the screenshots to show test data (the table data that you create to test each query) & query results:

1. Create the tables (with the most appropriate field/column constraints & types) and add at least 3 records into each created table.
2. Create an order slip VIEW which has the same number of lines as the Don\_Hang, with the following information: Ten\_KH, Ngay\_DH, Ten\_SP, So\_Luong, Thanh\_Tien

Question 2

Given the following database (the solid-underline fields indicate primary keys, dotted-underline fields indicate foreign keys)

* Employee\_Table (Employee\_Number, Employee\_Name, Department\_Number)
* Employee\_Skill\_Table (Employee\_Number, Skill\_Code, Date Registered)
* Department (Department\_Number, Department\_Name)

Let write SQL statements for following activities & print out respectively the screenshots to show test data (the table data that you create to test each query) & query results:

1. Create the tables (with the most appropriate field/column constraints & types) and add at least 3 records into each created table.
2. Specify the names of the employees whore have skill of ‘Java’ – give >=2 solutions:
   1. Use JOIN selection
   2. Use sub query
3. Specify the departments which have >=3 employees, print out the list of departments’ employees right after each department.
4. Use SUB-QUERY technique to list out the different employees (include employee number and employee names) who have multiple skills.
5. Create a view to show different employees (with following information: employee number and employee name, department name) who have multiple skills.

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**-- THE END --**