Advanced SQL

Training Assignments

Program Code	ASQL
Version	3.1
Effective Date	01/11/2016

Hanoi, 11/2016

RECORD OF CHANGES

*A - Added M - Modified D - Deleted

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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![FRESHER ACADEMY logo]	**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) 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:

   a. Use JOIN selection

   b. 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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