

**TEST PROJECT**  
**PRACTICAL SKILLS**

**MODULE 1: SYSTEM ANALYSIS AND DESIGN &  
DATABASE DESIGN**

**MAJORS: SOFTWARE TECHNOLOGY**

**Exam Paper Code: SAT02**

<b>SCHOOL LEADERSHIP</b>	<b>CHIEF SUBCOMMITTEE ON EXAM DEVELOPMENT</b>
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*Guide contestants*

Student's name	Date of birth	Placement	Module 1
			System Analysis and Design & Database Design

## GUIDE CONTESTANTS

### Module 1: System Analysis and Design & Database Design

**Time:**

- Preparation Time: 05 minutes
- Time Duration: 150 minutes
- Break Time: 10 minutes

**Scores:**

Exam content		Marks
1	System Analysis and Design	50
2	Database Design	50
Total Marks		100

**Candidates are required to note:**

- Ensure safety standards of health and computer
- Do the test independently without discussing while doing the test
- Comply with regulations of exam room and proctor's instructions
- Fill the information in the form
- Complete all requirements in the content of the exam
- Do not use documents, the Internet and other communication devices during the assignment
- If the exam does not have special requirement for the file name and storage location, contestants save all exam file name in the folder as following format:

**D:\WorkSkills\System Analysis and Design & Database Design**

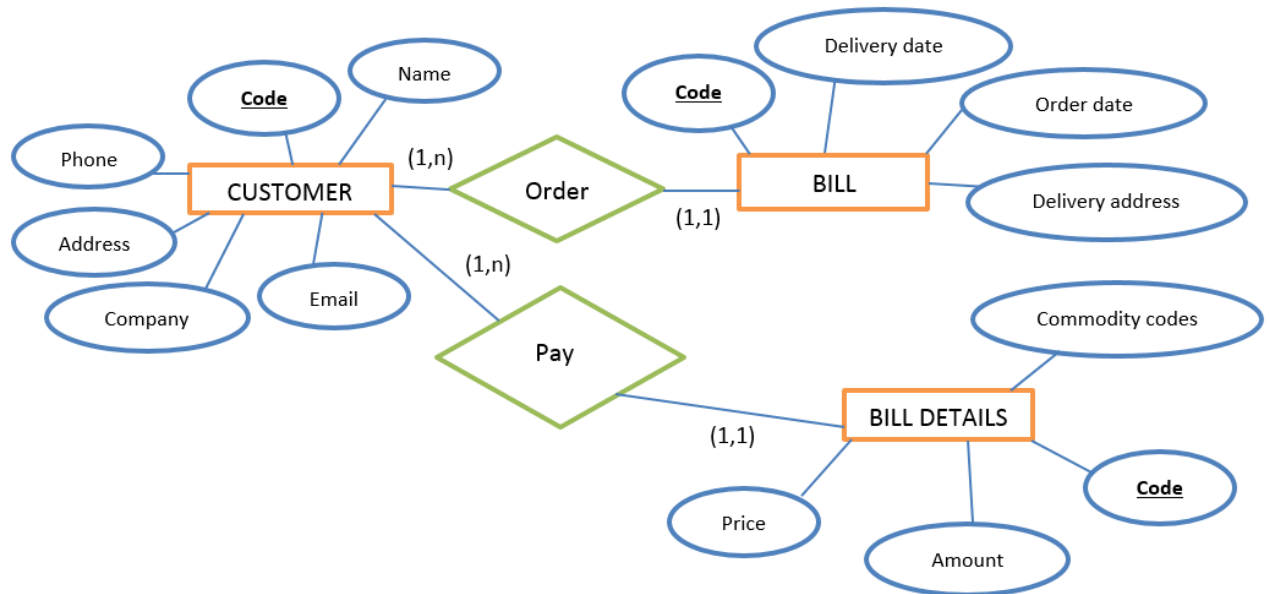
**<Student's Name>\_< Student code >[.< extension >]**

Student's name	Date of birth	Placement	Module 1
			System Analysis and Design & Database Design

## CONTENT OF THE TEST

### Question 1:

Below is the ER model:



1. Change from ER model to relational model.
2. Convert ER model to logical data model.

### Question 2:

Based on the previous ER model (Question 1), write SQL statements to do the following:

1. Create a database and name it **SalesManagement** then create tables with reasonable data types.
2. Create constraints on tables to ensure the accuracy and reliability of the data.
3. Insert 4 valid records into each table.
4. Select all fields from the **customer** table who have address at Vinh Long province.
5. Create a view that selects customer's code, name and counts the number of bills that customer ordered.
6. Create a procedure that inserts a new record into the **bill** table.

*Assessment guidelines*

<b>Student's name</b>	<b>Date of birth</b>	<b>Position</b>
		<b>Computer Network Design</b>

**GENERAL TRANSCRIPT**

<b>Exam content</b>		<b>Maximum Marks</b>	<b>Achieved Marks</b>
1	System Analysis and Design	50	
2	Database Design	50	
<b>Total Marks</b>		<b>100</b>	

**TEST TIME**

<b>Get to know the equipment</b>		<b>Time Duration</b>		<b>Break Time</b>			
Starting time		Starting time		Starting time		Starting time	
Ending time		Ending time		Ending time		Ending time	

**TEACHERS' SIGNATURE**

<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>