UNSW AUSTRALIA
SCHOOL OF ENGINEERING

ASSIGNMENT COVER SHEET

[INDIVIDUAL SUBMISSION]

For submission to: Xuemin Lin

Course code : 9311

Course name : Database Systems

Assignment : Assignment1

ACADEMIC REQUIREMENTS

Before submitting this assignment, students are strongly advised to:

- Review the assessment requirements contained in the briefing document for the assignment.
- Review the various matters related to assessment in the relevant Course Outline.
- Review the Plagiarism and Academic Integrity website at https://student.unsw.edu.au/plagiarism to ensure they are familiar with the requirements to provide appropriate acknowledgement of source materials.
- Retain a copy of this assessment for their records and in case it is misplaced and has to be re-submitted.

If after reviewing this material there is any doubt about assessment requirements then in the first instance the student should consult with the Course Coordinator and then if necessary with the Director – Undergraduate Teaching and Learning Committee.

While students are generally encouraged to work with other students to enhance learning, all assignments submitted for assessment by a student must be their entire own work and they may be required to explain any or all parts of the assignment to the Course Coordinator or other authorised persons. Collusion is where another person (s) assist in the preparation of an assignment without the consent of knowledge of the Course Coordinator.
Plagiarism and Collusion are considered as Academic Misconduct and will be dealt with according to University Policy.

STUDENT DECLARATION OF ACADEMIC INTEGRITY

I declare that:

- This assessment item is entirely my own original work, except where I have acknowledged use of source material [such as books, journal articles, other published material, the Internet, and the work of other student/s or any other person/s].
- This assessment item has not been submitted for assessment for academic credit in this, or any other course, at UNSW or elsewhere.

I understand that:

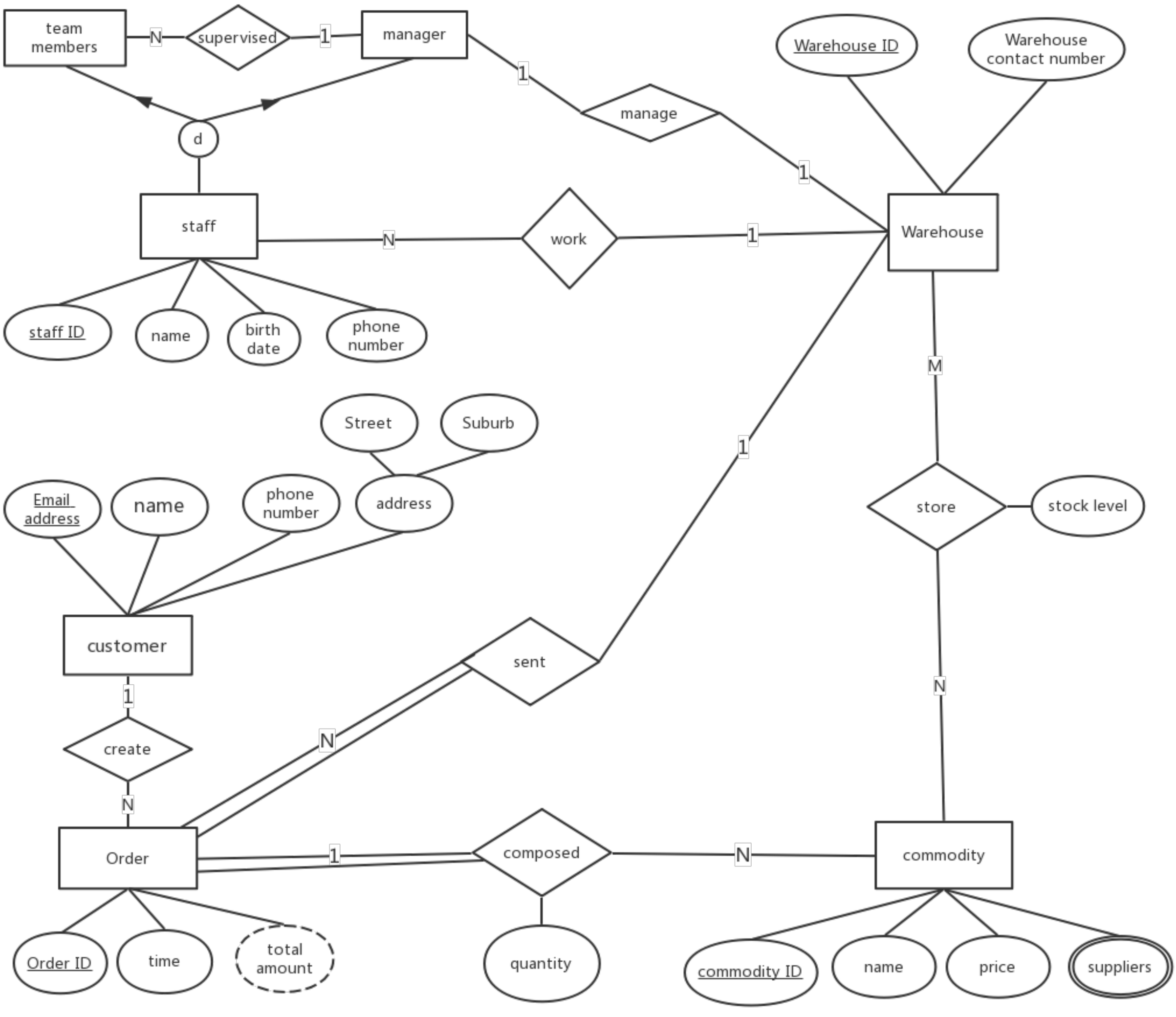
- The assessor of this assessment item may, for the purpose of assessing this item, reproduce this assessment item and provide a copy to another member of the University.
- The assessor may communicate a copy of this assessment item to a plagiarism checking service (which may then retain a copy of the assessment item on its database for the purpose of future plagiarism checking).

Student first name: TANG **Surname:** NANYANG

Student number: z5103095 **Date:** 25/03/2018

Unless stated otherwise, assignments must be lodged in the nominated Assignment Box, no later than 5.00pm on the assignment due date.

Question1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manager
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manage
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Warehouse ID
Warehouse contact number
d
staff
N
work
1
Warehouse
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birth date
phone number
M
Street
Suburb
1
Email address
name
phone number
address
store
stock level
customer
sent
1
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N
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Order
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commodity
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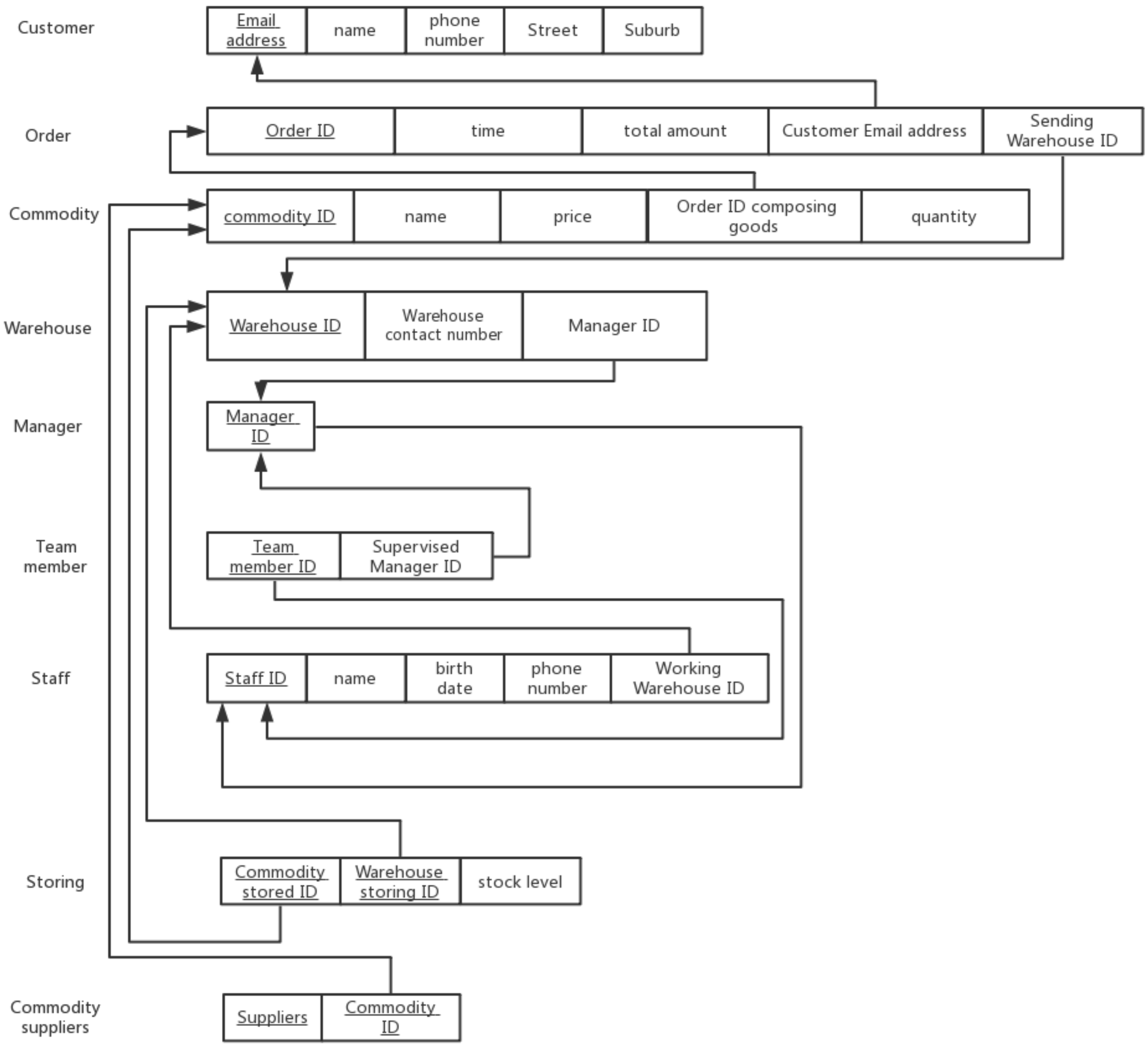
total amount
quantity
commodity ID
name
price
suppliers

Question2


Customer
Email address
name
phone number
Street
Suburb
Order
Order ID
time
total amount
Customer Email address
Sending Warehouse ID
Commodity
commodity ID
name
price
Order ID composing goods
quantity
Warehouse
Warehouse ID
Warehouse contact number
Manager ID
Manager
Manager ID
Team member
Team member ID
Supervised Manager ID
Staff
Staff ID
name
birth date
phone number
Working Warehouse ID
Storing
Commodity stored ID
Warehouse storing ID
stock level
Commodity suppliers
Suppliers
Commodity ID

Question3

1)

$\pi_{name}(\delta_{(gender='female')}\ AND_{(job='designer')}(JobRequirement \bowtie Enrolment \bowtie Student)\ )$

2)

$A \leftarrow \pi_{name}(\delta_{(job='designer')}(JobRrequirement) \bowtie Enrolment \bowtie Student)$

$A - \pi_{name}(Student \bowtie Enrolment \bowtie \delta_{(faculty='law')}(Course))$

3)

$A \leftarrow \pi_{courseName}(Course \bowtie Enrolment \bowtie \delta_{(gender='female')}(Student))$

$B \leftarrow \pi_{courseName}(Course \bowtie Enrolment \bowtie \delta_{(gender='male')}(Student))$

$\pi_{courseName}(Course) - A \cap B$