



East West University
Department of Computer Science and Engineering

CSE 301: Assignment 01 (2% marks towards final assessment)
Submission Deadline: 01/02/2018 (Section 2), 31/01/2018 (Section 3 and 4)
Course Instructor: Dr. Mohammad Rezwanul Huq

Answer the following questions within the stipulated space as shown with a box.

1. Assume that there are two relations r and s . If the relation r has 10 tuples and 3 attributes and the relation s has 8 tuples and 2 attributes, how many tuples and attributes will appear as a result of $r \times s$ and why?

2. What is the difference between natural join and cartesian product?

3. Consider the following database schema.

account (account_no, balance)

customer (customer_no, customer_name, customer_city)

depositor (account_no, customer_no)

Write SQL statements for the following queries.

- i) Find all account no. where balance is greater than 6000.
- ii) Find all customer names who live in 'Dhaka' city.
- iii) Find all customer no. where their name starts with 'B'.
- iv) Find distinct customer cities.
- v) Show the result of natural join between customer and depositor table.
- vi) Find all customer names and their city who have an account.
- vii) Find all customer related information who have an account and the balance is greater than 8000.
- viii) Find all accounts related information where balance is in between 1000 and 5000 and also their depositor lives in 'Khulna' city.
- ix) Update the customer city to Sylhet for customer number C-102.

(Use rest of the space and the overleaf for answering question 3. No additional pages are allowed)