

**Introduction to Database System**

**Fall 2020**

# Lab Mid Paper

**Time Allowed: 2 hours**

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| --- | --- |
| Name: |  |
| Registration No |  |
| Serial Number (of attendance sheet) |  |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Q1 | Q2 | Q3 | Q4 | Q5 | Q6 | Q7 | Q8 | Q9 | Q10 | Q11 | Q12 | Total |
| Total | 15 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 70 |
| Obtained |  |  |  |  |  |  |  |  |  |  |  |  |  |

**Instructions:**

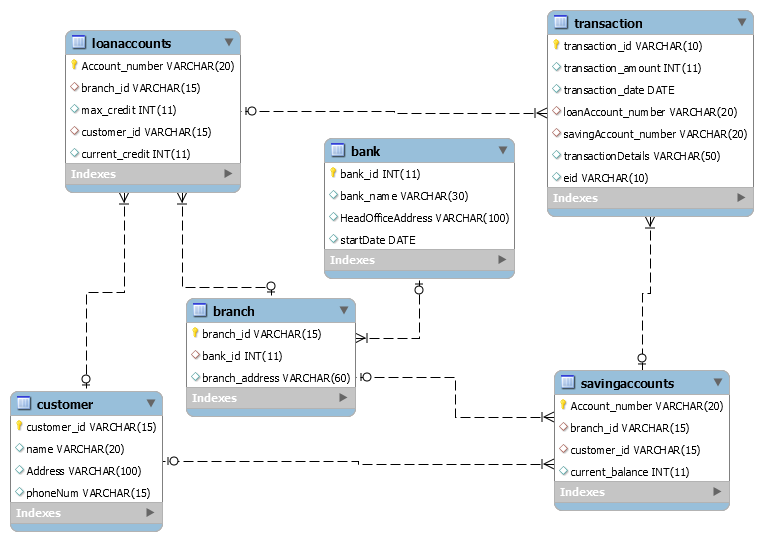
1. **This is closed Book/closed Notes Exam, no cheat sheet is allowed.**
2. **Understanding of question is part of paper**. Therefore, no queries will be entertained during examination.
3. **Bank schema, Chess schema** and SQL files are uploaded on LMS. Use database **Bank schema** to solve **Part 1** and **Chess** to solve **Part 2** of Paper.
4. You can use any method or approach to solve a query unless you are explicitly instructed to use specific approach.
5. Use proper indentation/formatting while writing queries.
6. SOME ONE is always with You, so be Relaxed. SOME ONE is always watching You, so be Honest. Keep Calm & stay Blessed.

# Part 1 (DDL)

**Note: Perform this question only on computer and submit MS Word file.**

**You need to write query (text form) + its output (screen shot with execution time)**

The Schema of **Bank System** is



**Q1.** Create table **Employee** with following fields

1. eid varchar (10)
2. branch\_id varchar (15)
3. name varchar (25)
4. address varchar (50)
5. age float

**Constraints.**

* **eid**in Employee, is primary key
* **branch\_id**in Employee, is foreign key from branch

**Q2.** Now add column (**designation** varchar (25)) in Employee table.

**Q3.** Requirements have been changed you are required to set **10000** as default value of **max\_credit** in loanaccounts table.

**Q4.** Change datatype of age in Employee to **Int** from float.

**Q5.** There is no relationship between Employee and Transaction table, so make a relation between these two tables using alter command. **Note** eid in transaction, should be foreign key from employee

**Part 2 (DML)**

**For each of the following, write a SQL query that satisfies the given**

**requirements, You need to write query (text form) + its output table**

**(screen shot with execution time)**

**Q6.**  Show the details of those players whose names third letter is ‘S’.

**Q7.** Show all data of sponsors other than ‘azhar’ and ’galib’.

**Q8.**  Retrieve the first names of those players who participated in the tournament named as ‘awami’.

**(Do it with Joins)**

**Q9.** Print the detail of tournament organized by “alinawaz” or “shabana azmi”.

**(Do it with Inner/Nested query)**

**Q10.** Print the name of player who have participated in more than one tournament.

**(Do it with Inner/Nested query)**

**Q11.** Print the number of the clubs which are located in Lahore or Faisalabad.

**(Do it with Inner/Nested query)**

**Q12.** Show names of players who participated in tournament which was organized by organizer ‘Rahat fateh’ and tournament was organized in a club located in ‘lahore’.