1. Create the following table with values (a) Name of the table is *Table1* (b) the Primary key is *Roll* (c) Rename the table as *Science* (D) Show the average balance of the students of each department (E) Increase the Balance with 10%.

Roll	Name	Department	Balance	Grade
10101	Bikash	CSE	220.25	A
10201	Josh	ICE	340.70	B+
10301	Kevin	EEE	360.00	B-
10401	Ben	ICE	560.16	C
10102	Karim	CSE	255.98	B

2. Create the following two tables (a) Name of left table is *Account*, means respective customer has an account (b) Name of the right table is *Borrower*, means respective customer has a loan (c) Find the names of all customers who have a loan, an account, or both, from the bank.

Account_Id	Name
17	Bikash
21	Josh
25	Kevin
78	Ben
96	Karim

Loan_Id	Name
103	Karim
106	Badol
112	Jamal
110	Bikash
109	Rahim

3. If a record is updated in table *Science* when the *Balance* becomes higher than 1000, keep the whole record of that student in a separate table *Attention*.

. Create the following table using SQL DDL 2

employee (*name, occupation, joining_date, working_hour*)

. Write a single query to insert the following data into the employee table 2

Name	Occupation	Joining Date	Working Hour
Robin	Scientist	2020-10-04	12
Warner	Engineer	2020-10-04	13
Peter	Actor	2020-10-04	13
Marco	Doctor	2020-10-04	14

. Write a database trigger for the ***employee*** table that will be invoked before each time any record is inserted and will convert any negative value for *working_hour* field to 0 (zero) and *working_hour* greater than 14 to 14. 2

Import the "world.sql" file into a MySQL database named "**world_db**". After importing the database, you will find three tables named *country*, *city* and *countryLanguage*. The *country* table has a primary key named *"Code"*, which is used as a foreign key for the *city* and *countryLanguage* table. Review the schema and content of the tables carefully and write queries to answer the following:

. Find all the other countries in Asia whose life expectancy is less than the life expectancy of Bangladesh. 2

. Find the total population of each Continent 2

. Find the names and capitals of each country in the middle east. Country names should be in alphabetical order. 2

. Find the names of all the countries in Africa where English is the official language 2

1. Create the following table with values (a) Name of the table is ***Table1*** (b) Primary key is **AccID** (c) Rename the table as ***AgranaiBank*** (D) Show average balance of the customers of each**Branch**(E) Increase the **Balance**with 10%.

AccID	AccName	Branch	Balance
10101	Rahim	Rajshahi	1220.25
10201	Sohel	Khulna	2340.70
10301	Keya	Dhaka	1360.00
10401	Badol	Khulna	3560.16
10102	Karim	Rajshahi	1255.98

2. Create the following two tables (a) Name of left table is ***Account,*** means respective customer has an account (b) Name of the right table is ***Borrower,*** means respective customer has a loan (c) Find the names of all customers who have a loan, an account, or both, from the bank.

Account_id	Name
17	Bikash
21	Josh
25	Kevin
78	Ben
96	Karim

Loan_id	Name
103	Karim
106	Badol
112	Jamal
110	Bikash
109	Rahim

3. If a record is inserted in the table of question no 1***Table1***, *create Trigger that will store* **AccName** *and***AccID***automatically in a separate Table name,* ***LowBalance***, if the inserted **Balance** is less than 2000.

1. Create the following table with values (a) Name of the table is ***Table1***(b) Primary key is ***Roll***(c) Rename the table as ***Faculty***(D) Show the name and roll numbers of the students whose name begins with 'S'. (E) Show the *name* and *roll* numbers of the students whose ***Balance<300***.

Roll	Name	Department	Balance	Grade
10101	Karim	CSE	220.25	F
10201	Rahim	ICE	340.70	B+
10301	Badol	EEE	360.00	B-
10401	Sohel	ICE	560.16	F
10102	Rina	CSE	255.98	B

2. Create the following Table (a) Name of Table is ***CSE***, (b) using this table and **Table1** in question no 1, show the name of the students with their home district whose department is CSE.

Roll	Home District
10101	Rajshahi
10102	Khulna
10201	Dhaka
10301	Rajshahi
10401	Bogra

3. Create the ***Table1***as in question no 1. Now create a Trigger that will store automatically the names and roll numbers of students in another Table, name ***Passed***, once any record inserted in ***Table1*** and **Grade** is not F