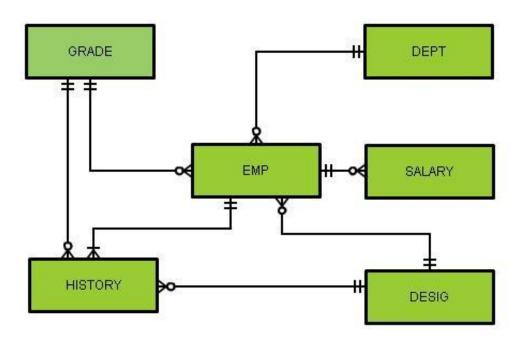
DBT Lab exam (Duration 2 Hours)

Section I - SQL (30 marks)

Instructions:

- 1. Questions 1-2 carry FOUR marks each.
- 2. Questions 3-4 carry FIVE marks each.
- 3. Questions 5 6 carry SIX marks each.(These questions have option to choose one out of two questions)
- 4. You are advised to save all the queries along with the screenshots to a file with you Roll No.
 - * If any query is not copied it will not be evaluated.
- 5. Refer to the ER Diagram for table structure and key migration details.



- 1. List the employees who got salary allowance between Rs.1000 to Rs.1500 in the year 2012.
- 2. List the oldest employee of the office.
- 3. List the employees who have atleast two person working under him/her and the number of their subordinates. List the employee with highest number of subordinates first, next the person with next highest number of subordinates and so on.
- 4. List the departments in which average salary of employees is more than average salary of the company.
- 5. Create a procedure to count employees by gender from employee table. Use OUT keyword to store the count. Display the result of this procedure.
- 6. Create a function to count number of employee born in a particular year. Execute this function by passing an year 1970

Section II – NoSQL(MongoDB) (10 marks)

Instructions:

- Questions 1 and 10 carry HALF marks each.
- Questions 3- 8 carry ONE marks each.
- Question no 2 is of TWO marks.
- You are advised to save all the queries along with the screenshots to a file with you Roll No.
 - * If any query is not copied it will not be evaluated.
- 1- Create a database **country**
- 2- Insert the following documents in citizen collection

first	last	age	gender	hair_colour	occupation	nationality
matthew	setter	40	m	brown	developer	australian
james	caan	28	m	brown	actor	american
arnold	chaw	53	m	brown	actor	american
tony	curtis	61	m	brown	developer	american
jamie	curtis	32	f	brown	actor	american
michael	caine	36	m	brown	actor	english
judi	dench	47	f	white	developer	english

- 3-Retrieves all male, American actors and sort them in ascending order of age.
- 4-Update the record for James Caan specifying that his hair is grey, not brown.
- 5-Return Count of the documents in the citizen collection whose age is greater than 35
- 6-Increment age of citizen whose first name is tony by 3

- 7-Create an index on the age field of the citizen collection
- 8-Remove the documents from citizen collection whose last name is "curtis".
- 9-Display all the indexes of the citizen collection
- 10-Drop database COUNTRY