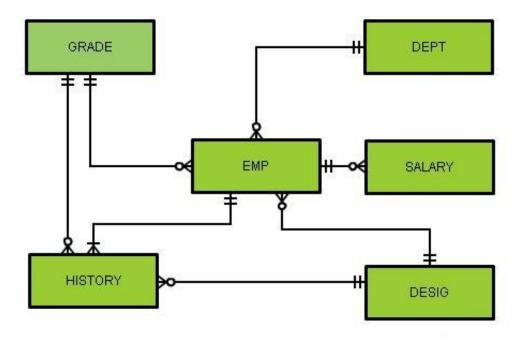
DBT Lab exam (Duration 2 Hours)

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.(Both the questions have options you can choose either one of the two)
- 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. Create a view to display number of employees working in each department. Display this view
- 2. List the employee with maximum number of promotions. Also list the number of promotions that he/she got..
- 3. List the empcode, average take home pay and department name for those employees who are drawing salary lesser than the average salary of employees working for 'accounts' department
- 4. List the supervisor code, supervisor name and number of subordinates for those supervisor who have minimum 3 employee working under him.
- 5. Create a procedure to count number of employee born in a particular year. Execute this function by passing an year 1970
- 6. Create a procedure to get maximum salary for a particular department. Use a variable grade to set the grade as A if max salary is more than 5000. Execute this procedure

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 students

2-Insert the following documents in participants 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
sheena	bora	41	f	brown	actor	american

- **3-**Retrieves all female, American actors and sort them in ascending order of age.
- **4-**Update the record for tony curtis specifying that his hair is grey, not brown.

- **5-**Count of the documents in the participants collection whose age is less than 35
- **6-**Increment age of participant whose last name is curtis by 3
- 7-Create an index on the age field of the participants collection
- **8-**Remove the documents from participant collection whose last name is "chaw".
- **9-**Display all the indexes of the participant collection
- **10-**Drop database Students