JIS COLLEGE OF ENGINEERING

NAME	:	**Manjit Pal**
STREAM	:	**BCA**
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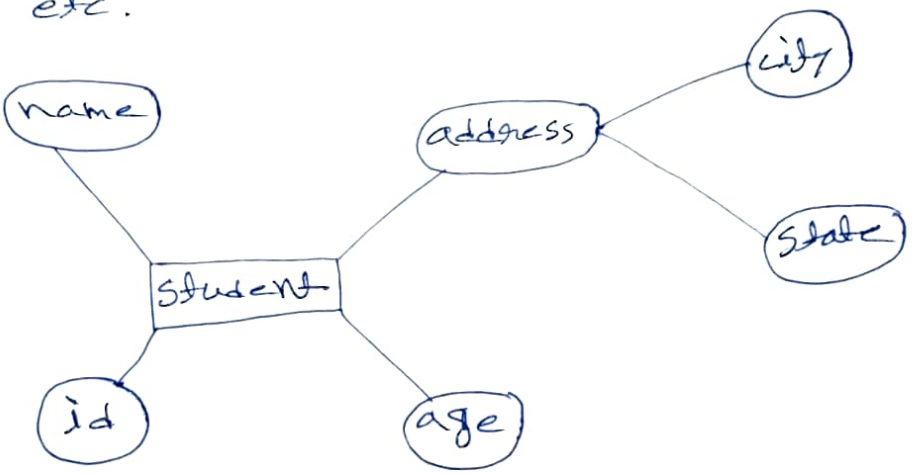
1) What is ER-Diagram?

=> ER-Diagram is stands for entity relationship diagram. An entity relationship or ER-model describes the structure of a database with the help of a diagram, which also known as ER-Diagram. An ER-Diagram/model is a design or blueprint of a database that can later be implemented as a data base.

Ex:- Suppose we design a school database. In this database the student will be an entity with several attributes like address, name, id, age etc.



2) Define all components of ER-Diagram.

=> Fundamentally the ER-Diagram is a structured design of the database. It acts as a framework created with the specialized symbol for the database entities. It mainly based on three components. Those are :-

① entities :- Entites are objects or concepts that represents important data. Entities are the typically nouns such as product, customer, location or promotion. There are four type of entity.

(i) Tangible (ii) conceptual (iii) strong (iv) weak Entity.

② attributes :- An attributes is a property or characteristic of an entity. An entity may contain any number of attributes. One of the attributes is considered as the primary key. Such as a student is an entity and it has many attributes like age, roll.no, address, father's name etc.

③ relationship :- It is mainly used to document the interaction between to entites. Relationship are usually verbs such as asign, asociate, track and provide useful information that can't be discerned with the entity types.

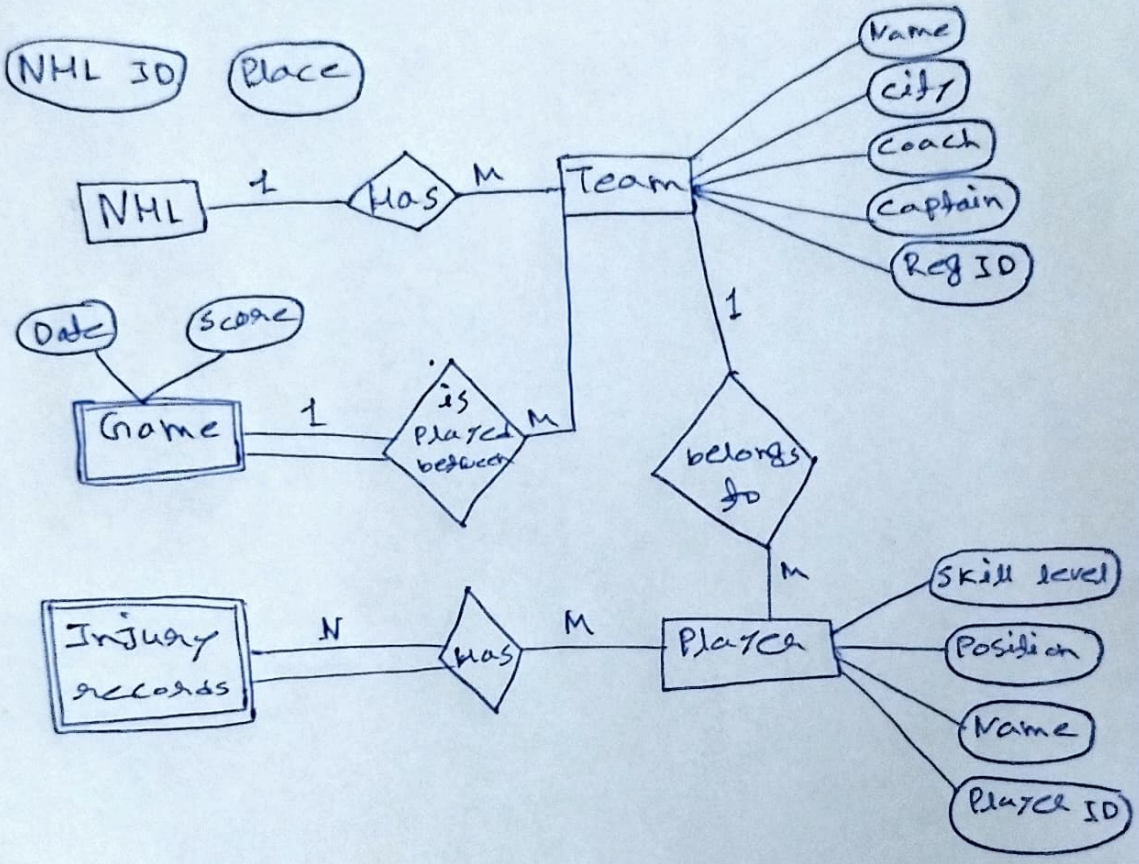
3) ERD of NHL

=) Entity

NHL, Team, Game, Injury, records, Player.

Attribute

Name, city, coach, captain, Player ID, Position, Skill level.



-: NHL ER- Diagram :-