Nome: Sadia Afrin Tamanna ID: 1812030042

Answer to the question no -1

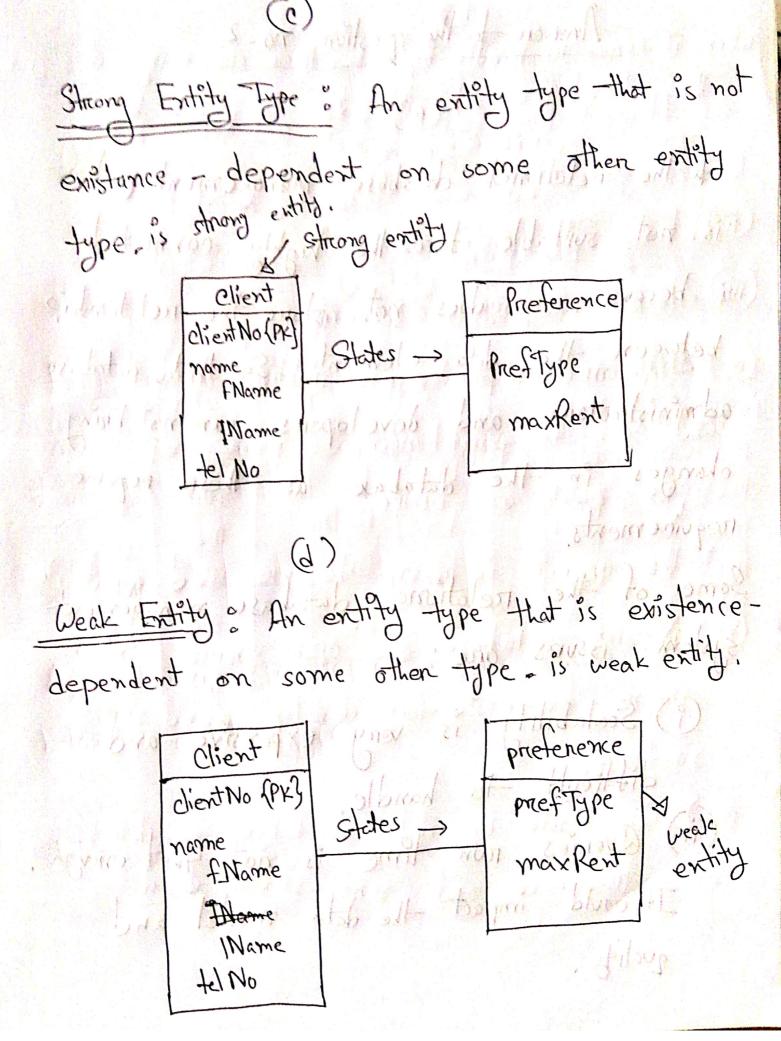
Entity relationship type is a set of meaningful associations among entity types. If Its occurrence is uniquely identifiable association.

Breanch Has. -> Staff

A relationship type represents the association between entity types.

(p)

Degree of Relationship. The number of participating entity types in relationship. Relationship of degree two is binary and of degree three is terrany Solici tora Financial Annanges



## Answer to the question no-2

1900) 1 161/1-1 1/2 (a) 1 1/2 / 1/2/2 (b)

It the relational database management ystem is not suitable for the highly connected to because, it does not stone the relationship between the data elements. So that, database administrators and developers can not bring changes in the database as their neguine requirements.

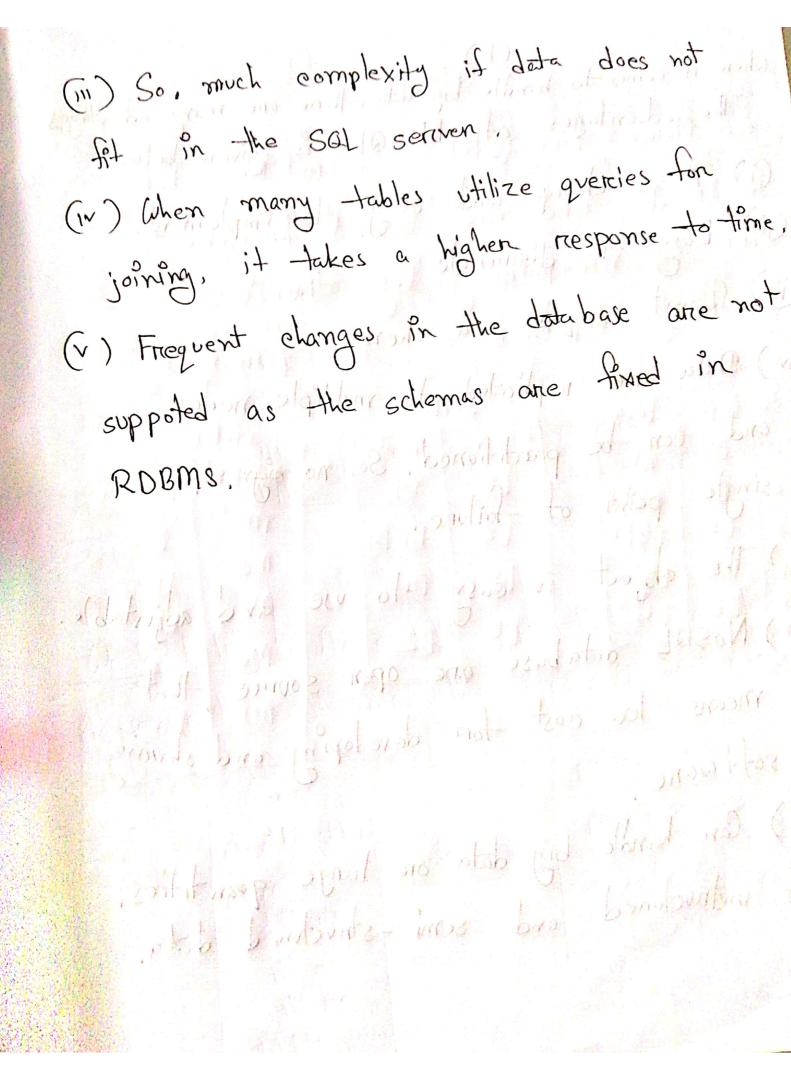
Some of the relational platabase management system issues are and some of the relational platabase management

(i) Scalability is very expensive and difficult to handle.

(ii) Queraies run time is not fast enough.

It could impact the data model and

quality.



when it comes to handle big data, there are many advantages.
The advantages of NoSQL is given below.

- (i) It is cheap and easy to implement.
- (ii) Easy to distrabute
- (iii) Don't require a schema.
- (iv) Data are replicated to multiple nodes and can be partitioned. So, no sign sign sign. single point of failure.
  - (v) The object is easy to use and adjustable.
  - (vi) Nosal database are open source that means low cost for developing and sharing software.
    - (n) Can handle big data on large quantities. of untructured and semi-structured data.

# Answer to the question no-3

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Con the Contract 3rd Monmal form (3NF): A relation-which is in 15+ and 2nd Monand form and Pn alich no non-primary-key attribute is transitively dependent on the primary bey. 2NFa 3NFa 3NFb Module Dept Lectura Lecture Dept modute MI DI ma MI DI D=DI MZ m3 DI DL M3 my DZ IM W2 My D2 M 2 MJ. EM MAI 19115 CM

#### Answer to the question no -4 (a) Customer (2) Food Cust-id PK Food-id PK Chame Frame Phon-no Ryment-id Price Ex Package id Amount Staffs Promotional-Offers staff-id Package-id PK PK SName Food-id job\_posston salary-id FK Price discount

Cus	tomer	1		
	01.1			
101	Shihab	milling	201	301
102	Tamire	2222222222	202	362
[03	Tonni	3333333333	203	

### Promotional-Offens

302 2 201/.		30.1.	1	301
		201/.	2	302
303 3 151	<b></b>	151/	3	303

# Staffs

1001	Jamal	Bales Penson	501
1002	Kamal	managen	502
1003	Jamil	chef soles lenson	501

२००

300

400

Food

1	Beef Bungen	170
2	Pizza	300
3	Chicken Bungen	160

It is in 2nd normal form (2NF)

(b) Main entites Food Customer Premoting-Offers starts	
Food	
Food-id Frame   Proce	
Customer	
Cust-id Cname Phn-no Payment id Package-id	Amount
Promotional_Offens	
Package-id Food-id discount	
Staffs	
Staff_id Sin SName Job-position Salany-id	
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Custid Amount Food-id Proice Dute insarihu	oice_no
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[Salary-id salary SDate outroice-no	D