Date: / /
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Roll No: Ap22
Admission No : U2005022
Sub - DBMS.
The second secon
Tutorial -4
Q1. Student table:
Aadhar_id -> CK/PK
Aadhar-id -> Phone No, DOB, Address, Fname, Lname,
Email.
Prime = Aadhar id)
Non prime = & DOB, ? hone no, Address, L-name,
Not in First NF as multivalued attribute
is present, hence no other forms is
Not in First NF as multivalued attribute is present, hence no other forms is possible further.
Course Branch table:
Student unique-id -> course id, date of enrolment,
Course name
course id - course span, course name
CK = & student unique id not of envolments }
CK = & student unique id not of envolments ;
Prime = { student id, no. of enrol monts)
Prime = f student id, no. et enrol monts) Non prime = of course id, course span, course nome
It is in 1st Normal form as postial dependency exist as student unique-id (part of ck) is
exist as student unique-id (part of Ck) is

determining non prime attributes Subjects: Subject id -> PK Subject id - total credits, lecture id CR = subject id Prime attributes = of subject-id). Non prime attributes = of total-cred, lecture-id] It is in BCNF as in FD's all attributes on LAS is CK. Exam: Student unique - id -> PK. Student unique-id -> Grades, call, & SalA CK = Student renique id Prime = of student anique - id y. Non prime = of Grades, CalA, SaPAY. It is in BONF as in Fp's LHS is Q2. Student table fladhaz-id - PK Aadhan-id - DOB, Email-id, F-name, L-name, Address. Hence Ck = of Aadhan - idy Prime Att. = of Adhan-idy Non prime Att. & of DOB, Email-id, F-name, L'name Address? Hence it is in BCNF as in FD's LHS is CK.

The table Training id -> PK

Training - id -> training type, training sporn

Training type -> Training - id. Prime = f Training - id, training type?

Non prime = f Training pan }

Training pan } It satisfies BONF ou Pp's LHS is CU. (ampany table: Company-id - type, comp-namo. Comp-name - type Prime = f comp-description, comp-idy

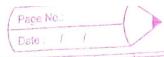
Prime = f comp-description, comp-idy

Non prime = f comp-name, type y It is in 2nd NF and it is not in 3rd NF Ows a mon prime attribute is deferming another non-prime attribute. Single offer. offerid - salary, location position -> salary stogether CK = { offer-id, position} Prime attribute = of offer id, position y Non prime = of Location, salaryy

It is 1st NF and not in 2nd NF non-prime attribute partial dependency). Hence not in and NF. Multi offer Offerid, company -> Location, Salary

CK = Offer-id

This in BCNF as in PD's LHS is CK. Academie défails : Student unique-id -> CapA, SGPA, credits CK = Student unique id Prime attributes = Sstudent unique-idy Non prime attributes = 2 CAPA, SERPA, credity It is in BCNF as lin for LHS is B3. Staff: Staff-id - name. Cle 2 & staff_id y
Prime Attr. = & 3taff_id y.
Non. prime Attr. = & namez It is in BCNF as in FD's LHS is Student - table : Aadhar-id -> PK Hadhar-id - DOB. Email-id, F-name, L-name



	Late.
	Henre ck c Dadi a idi
	Prime = of Aadhar-idy
	Non prime = of DOB, Email - id, F-name, L-name
	1) d x 285 Y
	Hence it is in BCNF as in FD's LHS is
	C K
	Banka
	Books
	ISBN - PK
	JSBN - Author, Category, Price, no. of page
	Author -> category.
4-	Author -> category. Ck = & ISBNY.
Itis	as transitive dependency exist.
	Dis transitive dependency exist.
	Manhainne = 2 ISBNY
	Non prime = & Author, Category, price, no. of pages &
	Publisher:
	Publisher_id - name.
	Cu = f Publisher_ id).
	Vrime = 7 tublisher-10 y.
P.	Cu = f Publisher_id y. Prime = f Publisher_id y. Non prime = f name y BCNF as LHS of FD's one a is Ch.
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