06	02	124

## SOL 02: KETS

<b>u</b>	AGENC	<del>)</del>	Super	keys	
	Coudi			<b>-</b> ()	
			U		
(2)	Primar	y ceys			
3	Compos	ilte keys			
		U			
(3)	Foreign	keys			
B	Intro	क ८०१	( ()	(1 V )	
9	401100	10 -40			
	SUPER				<b>N.A. M.C.</b>
	A col	(s) tha	t Cou	be used to	identify a row
	uniq	uely.	•		
	Table:	Student	2		
		Student			
		Student email		phone-40\	psp
				•	
	name			phone-40 SC	PSP CK (Minimal)
	name			•	
	name mane email			•	
	name mail PSP	email		•	
	name   name   name   psp name   name	email		•	
	name   mame   email psp mame   name   name   email	email email email	borcu	•	
	name   mame   email psp mame   name   name   email	email email email	borcu	•	
	name   mame   email psp mame   name   name   email	email	borcu	•	

	CANDIDATE	K E T
	Minimal set	of col(s) that can be used to
	edentify a	of col(s) tuct can be used to
	0	. •
	PRIMARY KEY	
	17 15 0 C	row in a table.
	rounty a	1000 (11 04 106/R.
Mae.	ODB Soots of	we date based on Plc.
(	D) DIS Created	an index on PK (indexes are stored in
		disk)
	(4 bytes)	(20 bytes)
	int	Stolong.
	GOOD PK (	since, used co index)
(Ž)	Should be sr	nall ion size.
<b>3</b>	Rosely cla	uges.
	V	0
C	DC) CI	(2
	123	101
	124	502
	125	
	126	205
	27	301
		407
	128.	407

COMPOSITE KET (Combroation) confu multiple columns is a composite key. student-classes clossid Stud Lid 101 102 101 102 Candedate PK: (Shed id, classid) Earprid, Dept Email

	Assumo: (FName, LName) -> UNIQUE
	A. Employee id  B. Email  C. (FName, (Nam)  D. (I Name, Dept) X  Cemar, Eass  temar, Enss
(	FOREIGN REY
(PL)	/SOL -> Structure a Overy Language. Note: CASE INSENSITIVE
	Assignments: Care Sensitive (appenhower cose)
(	CREATE TABLE
	CREATE TABLE < table-name> (
	Col-uame data-type CONSTRAINTS
	) 9

9	CREATE TABLE STUDENTS (
¥	· ·
	Stud-id INT PRIMARY LET
	shed-mane valchar (50)
	` ~
	,
	) '
	Constitution of the state of th
	CONSTRAINT (Restrictions, Validation, Limitation)
$\sim$	PRIMARY REY (UNIQUE+ NOT NULL)
	NOT NULL
(N)	UNIQUE
79)	
6	AUTO-INCR CHECK e.g salary INT CHECK salary >0
	VEFFOCT .
7	FOREIGN KEY
<b>(</b> E)	CREATE INDEX
	BREAK TILL -> 81,23 Am,
	dalla Chidala (Chidala Lila halia)
	stole: Students (FK) table: bakeles  stol s-name bakeled bid b-name
-	Std S-name batch 3d b-name  1 April 1 X
	2 Caranjuyan 2 - 2 7
	3 Racelan 2
	y Asar 18
	( Sheethan 1
	6. Maheudm 4

FOREIGN KEY

	UMOVE ( Need NOT be PK)	
D	Botches Proport will stoke all	
Po.	Botches Parent will notify all bird two Children if the bename referred value gets deleted (updated).	
	the children if the	
	became referred value gets	
	deleted / apares.	
	Cuild can do -	
	Students (1) CASCADE	
	S-id (2) SET NULL	
0	wild s-name (3) RESTRICT /NU ACTION	
	boke 30 (FC) (SET DEFAULT (defout	4)
		ソ
	(Not supported MySQL)	
QUERIE	s	
CREATE DATA	ABASE SQL 030524;	
use SQL_030	<del>-</del>	
CREATE TABI	LE BATCHES (	
B_ID INT UNI		
b_name VaRo	HaR(50)	
);		
	BATCHES(B_ID, B_NAME)	
VALUES (1, 'N (2, 'EVENING		
	LE STUDENTS ( PRIMARY KEY AUTO_INCREMENT,	
	VARCHAR(50) NOT NULL,	
BATCH_ID IN	T,	
	Y (BATCH_ID) REFERENCES BATCHES(B_ID) CASCADE ON UPDATE CASCADE	
);	SASSADE ON OF DATE CASCADE	
	CTUDENTS (CTUD NAME DATOU ID)	
VALUES ('KA	STUDENTS (STUD_NAME, BATCH_ID) USHIK', 1),	

('SHUBHAM', ('ALIZAIN', 2);	
	1452. Cannot add or update a child row:
	y constraint fails 4`.`students`, CONSTRAINT `students_ibfk_1`
	(EY (BATCH_ID') REFERENCES 'batches' (B_ID'))
	( = 2 ,
LIDDATE DAT	
UPDATE BATO SET B_ID = 99	
WHERE B_ID	
	1451. Cannot delete or update a parent row:  y constraint fails (sql_030524). students,
	NT `students_ibfk_1` FOREIGN KEY (`BATCH_ID`)
	ES `batches` (B_ID`))
DELETE EDOL	M BATCHES WHERE B_ID = 1;
DELETE PRO	WI BAICHES WHERE B_ID = 1,
	1451. Cannot delete or update a parent row: a foreign key constraint fails
(`sql_030524`. `batches` (`B_l	`students`, CONSTRAINT `students_ibfk_1` FOREIGN KEY (`BATCH_ID`) REFERENCES ID`))
(=_	
DROP TABLE	STUDENTS;