		484 HW 3
井 1	1.	Theirstname (Passengers W Tickets M (6 Departure time <12 (Flights)))
	2.	Mostination, Plane ID (Flights) / Mplane ID (Planes)
	3.	TIFlighID ( Tickets M (6 First Name = 'Isabella' (Passengers)))
	_	TiflightID(Flights & (6 Airline = Delta (Planes)))
サフ・	1. } 70	d. name. GPA. major. school 3. To -> name. GPA. major. school GPA -> major school -> major

#1.

#3

name, major -> id

Ac> F

F1 = { AC -> F3

GPA. name -> name. major.

condidate keys: 5:03.5 name. major3. 5 name. school3 5 G.PA. name3. 2. The selation is in 3NF since for dependencies in the form X > A: GPA > major, school > major name. major > 7d major is port of leas (name. major) and 7d is superkell

To is the key, anything can give id is candidate key, name, major - id name. school - name, major

3. The relation is not in BCNF because for dependencies GPA - major school - major is not superkell and major is cleanly not a subset of GPA nor school

Fz= IA>B. BD > ACES.

4. GPA - major is violated with (3.8. Englist) + (3.8 Astronomy) school - major is violated

with (Engineering. (s) # (Engineering, Aerospoce). BD is superkey, it qualifies for both of them

A is not superled so not BCNF but A is part of AD and so for the 3NF

R = 9 A, C, F3 R2 = S A.B, C.D.E3.







