# 1.1 SCHEDULE FLOW

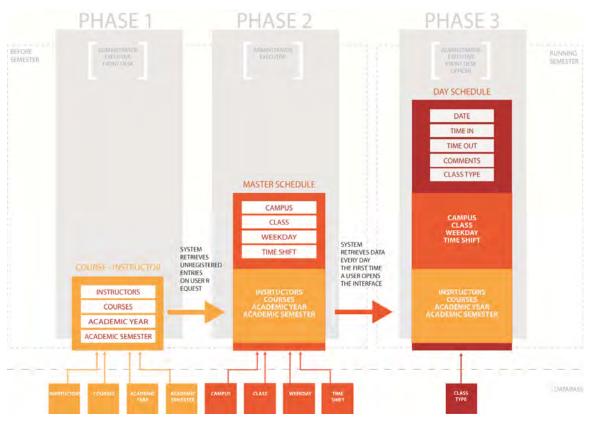


Figure 2.1 FORMAL SCHEDULE FLOW

### 1.1.1 COURSES & INSTRUCTORS

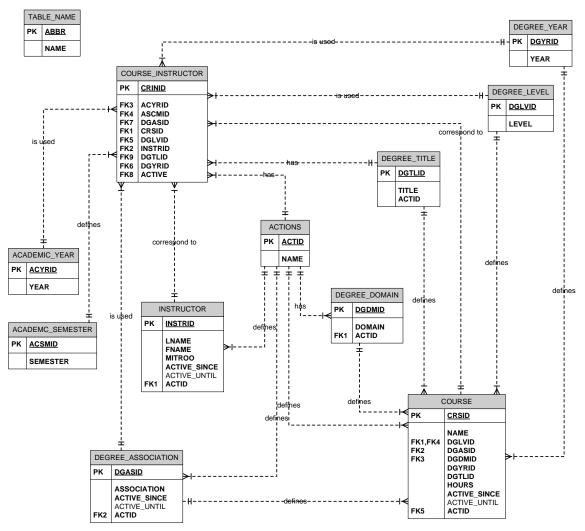


Figure 2.2 DB DESIGN - COURSES & INSTRUCTORS ERD

### 1.1.2 MASTER SCHEDULE

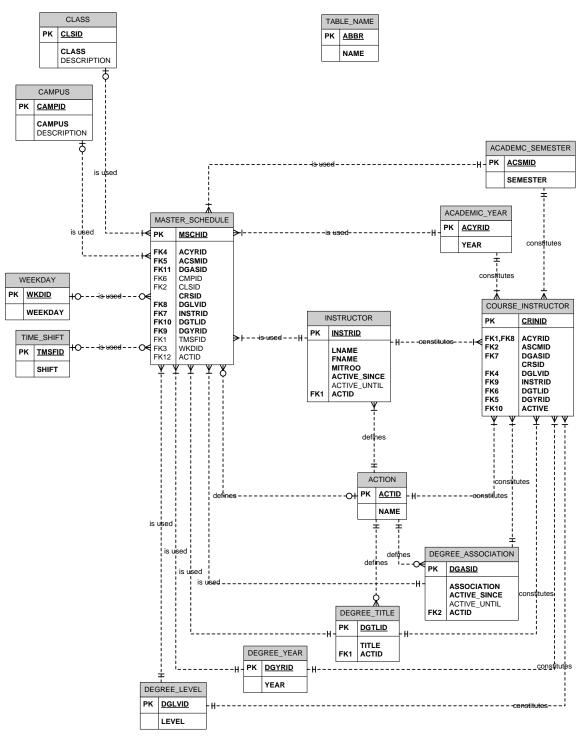


Figure 2.3 DB DESIGN - MASTER SCHEDULE ERD

# 1.2 DAY SCHEDULE

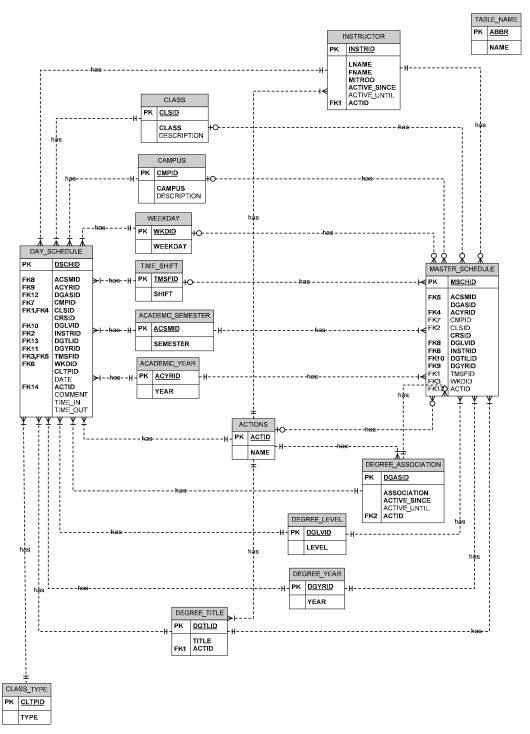


Figure 2.4 DB DESING - DAY SCHEDULE ERD

# 1.3 DATABASE ENTITIES- SCHEDULE

### Academic Semester



Figure 2.5 DB ENTITY - ACEDEMIC SEMESTER

### Academic Year

COLUMN NAME	SEMANTIC NAME	DATA TYPE	VALID DATA	NOT NULL AUTO-INCREMENT	CONSTRAINT NAME	REFERENCED TABLE NAME	REFERENCED COLUMN NAME
acyrid	ACADEMIC YEAR ID	■ INT(4)	2010, 2011	•	PRIMARY	NULL	TEXAL STATE OF THE
year	ACADEMIC YEAR	■ INT(4)	2010, 2011	*	acyr_vr_unq	NUCC	TUITE

Figure 2.6 DB ENTITY - ACADEMIC YEAR

#### Active

COLUMN NAME	SEMANTIC NAME	DATA TYPE	VALID DATA	NOT NULL AUTO-INCREMENT	CONSTRAIINT NAME	REFERENCED TABLE NAME	REFERENCED COLUMN NAME
actid	ACTIVE ID	CHAR(1)	Y,N		PRIMARY	man	CONT
a name.	ACTIVE ID	VARCHAR(3)	YES, NO		act_nm_unq	COMP	2000

Figure 2.7 DB ENTITY - ACTIVE

# Class

C	DLUMN NAME	SEMANTIC NAME	DATA TYPE	VALID DATA	NOT NULL	AUTO-INCREMENT	CONSTRAIINT NAME	REFERENCED TABLE NAME	REFERENCED COLUMN NAME
	dsid	CLASS ID	INT(3)	1, 43, 67			PRIMARY	COLUM	TEXAS .
Q	dass	CLASS NAME	VARCHAR(5)	0.12, 3.11, 4.05	4				
9	description	DESCRIPTION	E TEXT	'LAB', 'NOTES'					

Figure 2.8 DB ENTITY - CLASS

# Class Type

COLUMN NAME	SEMANTIC NAME	DATA TYPE	VALID DATA	NOT NULL AUTO-INCREMENT	CONSTRAIINT NAME	REFERENCED TABLE NAME	REFERENCED COLUMN NAME
dtpid	CLASS TYPE	CHAR(1)	SCH, EXT, MKP		PRIMARY	10038	HUUTS
type	TYPE	VARCHAR(10)	SCHEDULED, EXTENSION	*	cltp_tp_ung	EREAL	Kura

Figure 2.9 DB ENTITY - CLASS TYPE

# Campus

COLUMN NAME	SEMANTIC NAME	DATA TYPE	VALID DATA	NOT NULL AUTO-INCREMENT	CONSTRAIINT NAME	REFERENCED TABLE NAME	REFERENCED COLUMN NAME
Y cmpld	CAMPUS ID	& CHAR(1)	A, K, S	-	PRIMARY	HUSEL	Nutr
campus	CAMPUS NAME	NARCHAR (30)	AMALIAS, SKOUFOU		cmp_cmp_unq	HUSE	MULL
<ul> <li>description</li> </ul>	DESCRIPTION	III TEXT	'ADDRESS', 'NOTES'				

Figure 2.10 DB ENTITY - CAMPUS

#### Course



Figure 2.11 DB ENTITY - COURSE

## Course-Instructor

COLUMN NAME	SEMANTIC NAME	DATA TYPE	VALID DATA	NOT NULL AU	TO-INCREMENT	CONSTRAINT NAME	REFERENCED TABLE NAME	REFERENCED COLUMN NAME
crinid	COURSE-INSTRUCTOR ID	L INTEGER	543, 554, 23	2	4	PRIMARY	Bitter	(1039)
<ul><li>acyrid</li></ul>	ACADEMIC YEAR ID	1NT(4)	2011, 2012	1		fk01_crin_acyrid	academic_year	acyrid
acsmid a	ACADEMIC SEMESTER ID	CHAR(1)	A,B	1		fk03_crin_acsmid	academic_semester	acsmid
o dgasid	DEGREEE ASSOCIATION ID	VARCHAR(8)	IUKB, SUNNY, GREW	1		fk04_crin_dgasid	degree_association	dgasid
o craid	COURSE ID	INT(3)	43,554	4		fk05_crin_crsid	course	crsid
g dglvid	DEGREE LEVEL ID	CHAR(1)	B, M, P	4		fk06_crin_dglvid	degree_level	dglvid
instrid	INSTRUCTOR ID	INTEGER	43, 554	1		fk07_crin_instrid	instructor	instrid
dgdmid	DEGREE DOMAIN ID	VARCHAR(5)	COMP, IE&WM, PSY	1		fk08_crin_dgdmid	degree_domain	dgdmid
dgyrid     dg	DEGREE YEAR ID	INT(1)	1,3,2	1		fk09_crin_dgyrid	degree_year	dgyrid
active .	ACTIVE ID	CHAR(1)	Y.N	4				

Figure 2.12 DB ENTITY - COURSE INSTRUCTOR

#### Day Schedule

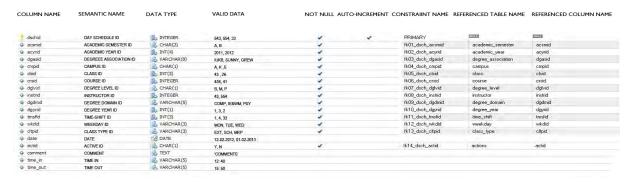


Figure 2.13 DB ENTITY - DAY SCHEDULE

### **Degree Association**

COLUMN NAME	SEMANTIC NAME	DATA TYPE	VALID DATA	NOT NULL AUTO-INCREMENT	CONSTRAIINT NAME	REFERENCED TAI	BLE NAME REFERENCED COLUMN NAME
dgasid	DEGREE ASSOCIATION ID	VARCHAR(8)	GREW, IUKD, SUNNY	v.	PRIMARY	Stone	(Inut.)
<ul> <li>association</li> </ul>	UNIVERSITY ASSOCIATION	NARCHAR (30)	GREENWICH, NEW YORK COLLEGE	¥	dgas_asc_unq	0000	THE REAL PROPERTY.
active_since	ACTIVE SINCE	28 DATE	1205-2002	4			
<ul> <li>active_until</li> </ul>	ACTIVE UNTIL	28 DATE	12-12-2011				
· actid	ACTIVE ID	CHAR(1)	Y,N	4	fk02_dgas_actid	actions	actid

Figure 2.14 DB ENTITY - DEGREE ASSOCIATION

## Degree Domain

COLUMN NAME	SEMANTIC NAME	DATA TYPE	VALID DATA	NOT NULL AUTO-INCREMENT	CONSTRAIINT NAME	REFERENCED TABLE	NAME REFERENCED COLUMN NAME
7 dgdmid	DEGREE DOMAIN ID	VARCHAR(5)	COMP, PSY		PRIMARY	100000	Rote
domain	STUDY DOMAIN	NARCHAR (50)	COMPUTER SCIENCE, PSYCHOLOGY	•	dgdm_dm_unq	ELECTION 1	BORE
actid     actid	ACTIVE ID	CHAR(1)	Y, N	*	fk01_dgdm_actid	actions	actid

Figure 2.15 DB ENTITY - DEGREE DOMAIN

### Degree Level



Figure 2.16 DEGREE LEVEL

### Degree Title



Figure 2.17 DB ENTITY - DEGREE TITLE

#### Degree Year



Figure 2.18 DB ENTITY - DEGREE YEAR

#### Instructor



Figure 2.19 DB ENTITY - INSTRUCTOR

### Master Schedule



Figure 2.20 DB ENTITY - MASTER SCHEDULE

## Time Shift



Figure 2.21 DB ENTITY - TIME SHIFT

# 1.4 DATABASE - SCHEDULE ERD

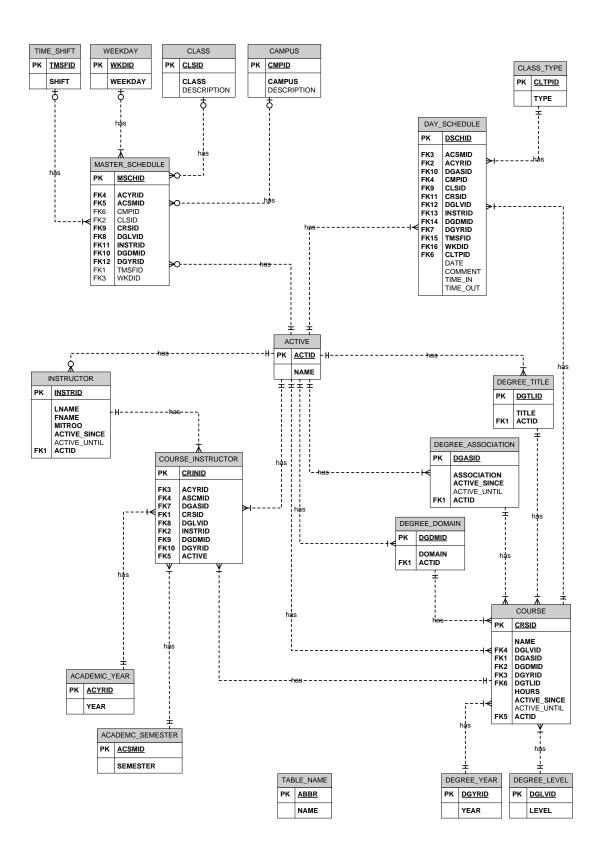


Figure 2.22 DB DESIGN - SCHEDULE ERD

## 1.5 DATABASE ENTITIES - SYSTEM

#### **Abbreviations**



Figure 2.23 DB ENTITY -ABBREVIATIONS

#### **Function**



Figure 2.24 DB ENTITY - FUNCTIONS

## **Function Category**



Figure 2.25 DB ENTITY - FUNCTION CATEGORY

### Permission



Figure 2.26 DB ENTITY - PERMISSION

# Privilege



Figure 2.27 DB ENTITY - PRIVILEGE

## Statement

COLUMN NAME	SEMANTIC NAME	DATA TYPE	VALID DATA	NOT NULL AUTO-INCREMENT	CONSTRAIINT NAME	REFERENCED TABLE NAME	REFERENCED COLUMN NAME
stmtid	STATEMENT ID	A CHAR(3)	DEL, SEL, UPD	,	PRIMARY	muan .	10000
<ul> <li>statement</li> </ul>	STATEMENT NAME	NARCHAR(10)	DELETE, SELECT, UPDATE	*	stmt_stmt_unq	NUAU	Rate

Figure 2.28 DB ENTITY - STATEMENT

## System Activity



Figure 2.29 DB ENTITY - SYSTEM ACTIVITY

## User



Figure 2.30 DB ENTITY - USER

## **User Activity**



Figure 2.31 DB ENTITY - USER ACTIVITY

# 1.6 DATABASE - SYSTEM ERD

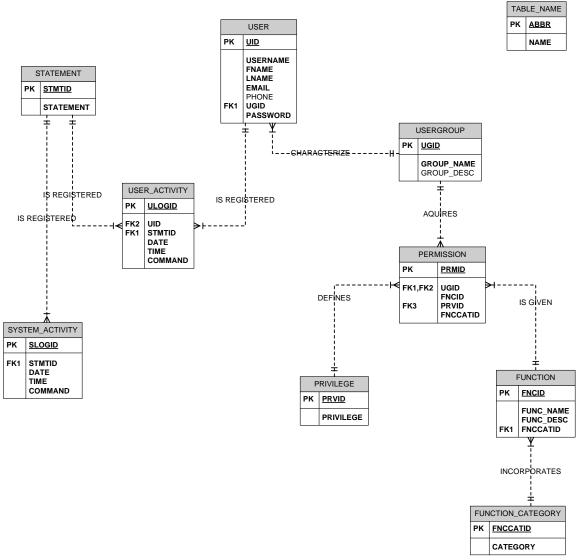


Figure 2.32 DB DESIGN - BACK-END SYSTEM ERD