

1	HB_ADULT			
ATTRIBUTE	PURPOSE	CONSTRAINT	TYPE	DESCRIPTION
<u>PERSON_ID</u>	PERSON IDENTIFIER FOR ADULTS	PK	NUMBER(10)	THIS BECOMES A SUPERTYPE FOR THE ENTITY PARENT, EMPLOYEE, GUARDIAN SUBTYPES
NAME	NAME OF THE PERSON	NN	VARCHAR2(30)	THIS SAVES NAME FOR ALL THE PARENTS, EMPLOYEES AND GUARDIANS
EMAIL	EMAIL OF THE PERSON		VARCHAR2(30)	THIS SAVES EMAIL FOR ALL THE PARENTS, EMPLOYEES AND GUARDIANS
CONTACT	CONTACT OF THE PERSON	NN, U	VARCHAR2(13)	THE PHONE NUMBER OF ANY ADULT
CNIC	GOVERNMENTAL ID OF THE PERSON	NN, U	VARCHAR2(20)	THE NATIONAL ID OF ANY ADULT
ADDRESS	ADDRESS OF THE PARENTS	NN	VARCHAR2(40)	ADDRESS OF THE PARENTS, USUALLY SAME
GENDER	FOR ACCOMPANYING CHILDREN	NN	VARCHAR2(1)	DEFINES WHO THE MOTHER OR FATHER IS, AND IF A GUARDIAN IS FEMALE

2	HB_PARENT_INFO			
ATTRIBUTE	PURPOSE	CONSTRAINT	TYPE	DESCRIPTION
<u>PARENT_ID</u>	PARENT IDENTIFIER FOR MOM/DAD	INDX, NN, FK	NUMBER(10)	REF. PARENT... THIS SERVES AS A SINGLE ID FOR BOTH MOTHER AND FATHER.
<u>PERSON_ID</u>	ID OF THE PERSON	FK	NUMBER(10)	REF. ADULT... THIS SERVES AS A COMPOUND PK WITH PARENT_ID IN THIS ENTITY

3	HB_PARENT			
ATTRIBUTE	PURPOSE	CONSTRAINT	TYPE	DESCRIPTION
<u>PARENT_ID</u>	PARENT IDENTIFIER FOR MOM/DAD	PK	NUMBER(10)	THIS SERVES AS A PRIMARY KEY FOR PARENTS TABLE

4	HB_CHILD			
ATTRIBUTE	PURPOSE	CONSTRAINT	TYPE	DESCRIPTION
<u>CHILD_ID</u>	IDENTIFIER FOR A CHILD	PK	NUMBER(10)	THIS SERVES AS A DISTINCTIVE IDENTIFIER FOR ANY CHILD ADMITTED OR NOT
NAME	NAME OF THE CHILD	NN	VARCHAR2(30)	THIS SAVES NAME FOR ALL THE CHILDREN
DOB	DATE OF BIRTH OF THE CHILD		DATE	THIS SERVES AS AN AGE IDENTIFIER TO IDENTIFY CLASS ID LATER ON
GENDER	DETERMINES GENDER	NN	VARCHAR2(1)	HELPS THE ORGANIZATION SORT CHILDREN ON BASIS OF GENDER
AGE	AGE OF THE CHILD	NN	NUMBER(10)	THIS HELPS IDENTIFY CLASS OF THE CHILD IF REGISTERED
B_FORM	BIRTH FORM OF THE CHILD	NN, U	VARCHAR2(20)	A UNIQUE IDENTIFICATION OF ANY CHILD, HOWEVER NOT SUITABLE FOR A PK

5	HB_GUARDIAN			
ATTRIBUTE	PURPOSE	CONSTRAINT	TYPE	DESCRIPTION
<u>GUARD_ID</u>	GUARDIAN IDENTIFIER FOR GUARD	NN, U	NUMBER(10)	THIS SERVES AS A UNIQUE IDENTIFIER FOR ANY GUARDIAN COMBINED WITH GUARD_ID
<u>PERSON_ID</u>	ID OF THE PERSON	FK	NUMBER(10)	REF. ADULT... THIS SERVES AS A COMPOUND PK WITH GUARD_ID IN THIS ENTITY
RELATION	RELATION TO THE CHILD	NN	VARCHAR2(20)	THIS DEFINES HOW CLOSE THE GUARDIAN IS TO THE CHILD

6	HB_EMPLOYEE			
ATTRIBUTE	PURPOSE	CONSTRAINT	TYPE	DESCRIPTION
<u>EMP_ID</u>	EMPLOYEE IDENTIFIER FOR EMP	NN, U	NUMBER(10)	THIS SERVES AS A UNIQUE IDENTIFIER FOR ANY EMPLOYEE COMBINED WITH PERSON_ID
<u>PERSON_ID</u>	ID OF THE PERSON	FK	NUMBER(10)	REF. ADULT... THIS SERVES AS A COMPOUND PK WITH EMP_ID IN THIS ENTITY
7	HB_CLASS			
ATTRIBUTE	PURPOSE	CONSTRAINT	TYPE	DESCRIPTION
<u>CLASS_ID</u>	CLASS IDENTIFIER FOR CLASSES	PK	INT	THIS SERVES AS A PRIMARY KEY FOR AVAILABLE CLASSES
8	HB_SECTION			
ATTRIBUTE	PURPOSE	CONSTRAINT	TYPE	DESCRIPTION
<u>CLASS_ID</u>	CLASS IDENTIFIER FOR CLASSES	FK, NN	INT	REF. CLASS... IT HELPS UNIQUELY CREATE SECTIONS FOR EACH CLASS
<u>SECTION_ID</u>	SECTION IDENTIFIER FOR CLASSES	NN	VARCHAR2(1)	THIS HELPS INTAKE OF MANY STUDENTS BASED ON GENDER/ABILITIES/SPACE LIMITATIONS
TITLE	NAME FOR A CLASS		VARCHAR2(40)	THIS GIVES SECTIONS NAMES FOR CREATIVITY FOR THE STUDENTS
9	HB_COURSE			
ATTRIBUTE	PURPOSE	CONSTRAINT	TYPE	DESCRIPTION
<u>COURSE_ID</u>	COURSE IDENTIFIER FOR COURSE	PK	VARCHAR2(6)	PRIMARY FOR THE SUBJECTS CODES
COURSE_NAME	NAME OF THE COURSE	NN, U	VARCHAR2(40)	IT DESCRIBES COURSES BETTER THAN IDs FOR EVERYONE
COURSE_DESC	DESCRIPTION FOR THE COURSE		VARCHAR2(50)	THIS TELLS THE STUDENTS WHAT THEY WILL BE FACING WHEN OPTING FOR THIS COURSE
10	HB_ADMITTED_STUDENT			
ATTRIBUTE	PURPOSE	CONSTRAINT	TYPE	DESCRIPTION
<u>STUDENT_ID</u>	STUDENT IDENTIFIER FOR STUDENTS	PK	VARCHAR2(7)	A STUDENT_ID IS GIVEN TO EVERY ADMITTED CHILD FOR STORING ALL INFO AT ONCE
<u>CHILD_ID</u>	CHILD IDENTIFIER FOR ALL INFO	FK, U	NUMBER(10)	REF. CHILD... TO JOIN TABLES FOR FINDING EVERY INFO ABOUT ANY CHILD
PARENT_ID	PARENT IDENTIFIER FOR ALL INFO	FK, U	NUMBER(10)	REF. PARENT... STORES PARENT FOR A STUDENT
GUARD_ID	GUARDIAN IDENTIFIER FOR ALL INFO	FK, U	NUMBER(10)	REF. GUARDIAN.. STORES GUARDIAN FOR A STUDENT
CHALLAN_NUM	GENERATED WITH NEW ADMISSION	NN, U	VARCHAR2(6)	A UNIQUE NUMBER TO IDENTIFY PAYMENT RECORDS FOR ADMISSION
FEE_AMOUNT	TOTAL AMOUNT REQUIRED	NN	NUMBER(10)	THE TOTAL AMOUNT OF THE FEES
DISCOUNT	DISCOUNT ON TOTAL AMOUNT		NUMBER(10)	THE AMOUNT TO DEDUCT FROM TOTAL AMOUNT
FINAL_AMOUNT	TOTAL - DISCOUNT		NUMBER(10)	FINAL AMOUNT THE PARENTS HAVE TO PAY
IS_PAID	A BOOLEAN FOR INFO NEEDED	NN, DEF: '0'	NUMBER(1)	KEEPS TRACK OF WHO HAS PAID AND WHO HAS NOT
JOIN_DATE	A DATE FOR ADMISSION TIME	NN	DATE	THIS HELPS IN FINDING OUT DORMANT STUDENTS IN LATER REPORTS

11	HB_STUDENT_HISTORY			
ATTRIBUTE	PURPOSE	CONSTRAINT	TYPE	DESCRIPTION
<u>SH_ID</u>	STU HISTORY ID FOR STUDENTS	PK	VARCHAR2(7)	SH_ID COMBINED WITH STUDENT_ID AS PK STORES ALL CHANGES THAT ARE UPDATED
<u>STUDENT_ID</u>	STUDENT IDENTIFIER FOR STUDENTS	FK, NN	VARCHAR2(7)	A STUDENT_ID IS GIVEN TO EVERY ADMITTED CHILD FOR STORING ALL INFO AT ONCE
CHANGES	A STRING TO STORE UPDATES	NN	VARCHAR2(2000)	STORES CHANGES IN FORMAT "ATTRIBUTE1 FROM OLD_VAL TO NEW_VAL;"

12	HB_REGISTRATION			
ATTRIBUTE	PURPOSE	CONSTRAINT	TYPE	DESCRIPTION
<u>REG_ID</u>	REGISTER IDENTIFIER FOR STUDENTS	PK	VARCHAR2(7)	A REG_ID IS GIVEN TO EVERY REGISTERED STUDENT TO ASSIGN A CLASS
<u>COURSE_ID</u>	COURSE IDENTIFIER FOR COURSE	FK, NN	VARCHAR2(6)	REF. COURSE... A COURSE REMAINS SAME FOR ALL REGISTRATION IN ONE TERM
<u>STUDENT_ID</u>	STUDENT IDENTIFIER FOR STUDENTS	FK, NN, U	VARCHAR2(7)	REF. ADMITTED_STUDENT... ONLY AN ADMITTED_STUDENT CAN BE REGISTERED
REG_CHALLAN_NUM	GENERATED WITH NEW REGISTRATION	NN, U	VARCHAR2(8)	A UNIQUE NUMBER TO IDENTIFY PAYMENT RECORDS FOR ADMISSION
REG_FEE_AMOUNT	TOTAL AMOUNT REQUIRED	NN	NUMBER(10)	THE TOTAL AMOUNT OF THE FEES FOR ANY COURSE REGISTRATION
REG_DISCOUNT	DISCOUNT ON TOTAL AMOUNT		NUMBER(10)	THE AMOUNT TO DEDUCT FROM TOTAL AMOUNT
REG_FINAL_AMOUNT	TOTAL - DISCOUNT		NUMBER(10)	FINAL AMOUNT THE PARENTS HAVE TO PAY FOR EACH COURSE REGISTRATION
IS_PAID	A BOOLEAN FOR INFO NEEDED	NN, DEF: '0'	NUMBER(1)	KEEPS TRACK OF WHO HAS PAID AND WHO HAS NOT
REG_DATE	A DATE FOR REGISTRATION TIME	NN	DATE	THIS HELPS IN FINDING OUT DORMANT STUDENTS IN LATER REPORTS

13	HB_REGISTRATION_HISTORY			
ATTRIBUTE	PURPOSE	CONSTRAINT	TYPE	DESCRIPTION
<u>REG_HIST_ID</u>	HISTORY IDENTIFIER FOR STUDENTS	PK	VARCHAR2(8)	THIS KEEPS RECORD OF EVERY REGISTERED STUDENT IN THE PAST
<u>REG_ID</u>	REGISTER IDENTIFIER FOR STUDENTS	FK, NN	VARCHAR2(7)	REF. REGISTRATION... MANY STUDENTS CAN REGISTER MANY TIME
<u>COURSE_ID</u>	COURSE IDENTIFIER FOR COURSE	FK, NN	VARCHAR2(6)	REF. COURSE... A COURSE REMAINS SAME FOR ALL REGISTRATION IN ONE TERM
<u>STUDENT_ID</u>	STUDENT IDENTIFIER FOR STUDENTS	FK, NN, U	VARCHAR2(7)	REF. ADMITTED_STUDENT... ONLY AN ADMITTED_STUDENT CAN BE REGISTERED
REG_CHALLAN_NUM	GENERATED WITH NEW REGISTRATION	NN, U	VARCHAR2(8)	A UNIQUE NUMBER TO IDENTIFY PAYMENT RECORDS FOR ADMISSION
REG_FEE_AMOUNT	TOTAL AMOUNT REQUIRED	NN	NUMBER(10)	THE TOTAL AMOUNT OF THE FEES FOR ANY COURSE REGISTRATION
REG_DISCOUNT	DISCOUNT ON TOTAL AMOUNT		NUMBER(10)	THE AMOUNT TO DEDUCT FROM TOTAL AMOUNT
REG_FINAL_AMOUNT	TOTAL - DISCOUNT		NUMBER(10)	FINAL AMOUNT THE PARENTS HAVE TO PAY FOR EACH COURSE REGISTRATION
IS_PAID	A BOOLEAN FOR INFO NEEDED	NN, DEF: '0'	NUMBER(1)	KEEPS TRACK OF WHO HAS PAID AND WHO HAS NOT
REG_DATE	A DATE FOR REGISTRATION TIME	NN	DATE	THIS HELPS IN FINDING OUT DORMANT STUDENTS IN LATER REPORTS

14	HB_CLASS_ASSIGNMENT			
ATTRIBUTE	PURPOSE	CONSTRAINT	TYPE	DESCRIPTION
<u>CA_ID</u>	CLASS ASSIGN ID OF ANY STUDENT	PK	VARCHAR2(7)	THIS RESETS ON A NEW TERM. AND BECOMES PK FOR EVERY TERM

CLASS_ID	CLASS IDENTIFIER FOR CLASSES	FK, NN	INT	REF. CLASS... IDENTIFIES CLASS FOR EVERY REGISTERED STUDENT
SECTION_ID	SECTION IDENTIFIER FOR CLASSES	FK, NN	VARCHAR2(1)	REF. SECTION... IDENTIFIES SECTION OF THE CLASS OF EVERY REGISTERED STUDENT
REG_ID	REGISTER IDENTIFIER FOR STUDENTS	FK, NN	VARCHAR2(7)	REF. REGISTRATION... KEEPS RECORD OF EVERY REG_ID AGAINST CLASS AND SECTION

15	HB_CLASS_ASSIGNMENT_HIST
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ATTRIBUTE	PURPOSE	CONSTRAINT	TYPE	DESCRIPTION
CA_HIST_ID	CLASS ASSIGN HISTORY OF STUDENTS	PK	VARCHAR2(8)	THIS KEEPS TRACK OF ALL CLASSES ASSIGNED TO EVERY STUDENT
CA_ID	CLASS ASSIGN ID OF ANY STUDENT	NN	VARCHAR2(7)	REF. CLASS_ASSIGNMENT... IDENTIFIES CLASS ASSIGNMENTS OF EACH TERM
CLASS_ID	CLASS IDENTIFIER FOR CLASSES	FK, NN	INT	REF. CLASS... IDENTIFIES CLASS FOR EVERY REGISTERED STUDENT
SECTION_ID	SECTION IDENTIFIER FOR CLASSES	FK, NN	VARCHAR2(1)	REF. SECTION... IDENTIFIES SECTION OF THE CLASS OF EVERY REGISTERED STUDENT
REG_ID	REGISTER IDENTIFIER FOR STUDENTS	FK, NN	VARCHAR2(7)	REF. REGISTRATION... KEEPS RECORD OF EVERY REG_ID AGAINST CLASS AND SECTION

16	HB_NEW_CLASS_ASSIGNMENT
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ATTRIBUTE	PURPOSE	CONSTRAINT	TYPE	DESCRIPTION
NCA_ID	NEW_CLASS_ASSSIGNMENT IDENTITY	PK	VARCHAR2(8)	THIS KEEPS TRACK OF ALL CLASSES CHANGED FOR EVERY STUDENT
STUDENT_ID	STUDENT IDENTIFIER FOR STUDENTS	FK, NN, U	VARCHAR2(7)	REF. ADMITTED_STUDENT... CHANGE THE CLASS USING STUDENT_ID TO ID STUDENT
CLASS_ID	CLASS IDENTIFIER FOR CLASSES	FK, NN	INT	REF. CLASS... IDENTIFIES OLD CLASS FOR EVERY STUDENT
SECTION_ID	SECTION IDENTIFIER FOR CLASSES	FK, NN	VARCHAR2(1)	REF. SECTION... IDENTIFIES OLD SECTION OF THE CLASS FOR EVERY STUDENT
NEW_CLASS_ID	NEW CLASS IDENTIFIER	NN	INT	IDENTIFIES NEW CLASS OF EVERY STUDENT ASSIGNED A NEW SECTION
NEW_SECTION_ID	NEW SECTION IDENTIFIER	NN	VARCHAR2(1)	IDENTIFIES NEW SECTION OF EVERY STUDENT ASSIGNED A NEW SECTION
EMP_ID	EMPLOYEE TO PROCESS ASSIGNMENT		NUMBER(10)	CONFIRMS AND PROCESSES THE NEW CLASS ASSIGNMENT
REASON	REASON FOR CHANGE	NN	VARCHAR(20)	DESCRIBES WHY A STUDENT WAS REQUIRED TO CHANGE HIS/HER SECTION/CLASS

17	HB_ACCOMPANY_RECORD
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ATTRIBUTE	PURPOSE	CONSTRAINT	TYPE	DESCRIPTION
ACCOMPANY_ID	ACCOMPANY FORM IDENTIFIER	PK	VARCHAR2(6)	EVERY TIME A STUDENT IS ACCOMPANIED, FORM IS FILLED WITH A NEW ACCOMPANY_ID
STUDENT_ID	STUDENT IDENTIFIER FOR STUDENTS	FK, NN, U	VARCHAR2(7)	REF. ADMITTED_STUDENT... ACCOMPANY THE STUDENT USING STUDENT_ID
GUARD_ID	GUARDIAN IDENTIFIER FOR GUARD	FK, NN, U	NUMBER(10)	REF. GUARDIAN... THIS GUARDIAN ACCOMPANIES THE STUDENT. <i>HAS TO BE FEMALE</i>
IS_PREG	A BOOLEAN FOR POSITIVE PREGNANCY	NN	NUMBER(1)	KEEPS TRACK IF ANY EXTRA ASSISTANCE REQUIRED BY FEMALE GUARDIAN
REASON	A STRING TO TELL WHY ACCOMPANIED	NN	VARCHAR2(20)	THIS REASON IS REQUIRED WHEN A PARENT/MOM IS MISSING FOR YOUNG STUDENTS