DBA 240 Final Project
Business Requirements Document

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OVERVIEW

Rebound serves the needs of high school students in the Durham County public school system who have received out-of-school suspensions. While the initial offenses range from verbally showing disrespect to teachers to behaviors like smoking many of these students face obstacles to success in their daily life such as homelessness, drug addiction, mental health issues, poverty, lack of proficiency in English or have experienced traumatic events.

The program Rebound provides to these students:
- allows their record to show an in-school suspension in place of the more serious out-of-school suspension
- provides a safe and supportive atmosphere where students can complete their assigned school work during their suspension
- completes a comprehensive assessment of each student to determine the root causes of their negative behavior at school.
- provides a variety of services on site during the suspension and in addition refers students to other types of services to help them get and stay on track for graduation.

Privacy Implications of working with student data:

Individual student data is a highly protected class of information and thus data security concerns are a high priority for this project. Various classes of data will be included in the Rebound database with the following levels of sensitivity:

Non-sensitive: includes publicly released aggregate data from Durham County Public Schools.
FERPA: identif able student data must meet FERPA privacy standards
Other data

DATABASE IMPLEMENTATION PHASES

Because cooperation with external government entities will be required for the analysis, design, and implementation of certain portions of the database this project is most efficiently implemented in phases:

Phase I
- eliminate manual entry of referral form into excel by Rebound staff
- add the Durham County Public school ID number to the referral form (if allowable)
- automate weekly attendance reports
- collect data on services provided to students by rebound
- collect data on referrals to additional outside services for later follow-up

Out-of-scope
anonymous survey data collection of students and parents
> *An existing outside tool such as SurveyMonkey would be the best approach to automating the survey data collection process. It is readily available and free or low cost and easy to use.*

Phase II
· automate the JPCP reporting process through NC Allies
· address Elna B. Spaulding referral fields
· analyze probation officer referral data form
· address granular Risk Assessment data
· termination report (probation officers)
requires additional analysis

Phase III
· develop metrics and access to comparative data for analysing the effectiveness of Rebound
· collaborate with existing agencies and organizations (summer 2016)
requires additional analysis

The remainder of this document will focus on Phase I.

ENTITIES

STUDENT

REFERRAL

SUSPENSION

GUARDIAN

SERVICE

PROVIDER

REFERANT

ATTENDANCE SCHEDULE

STUDENT

Students who have received out-of-school suspension are typically referred to the program by a school official but may refer themselves or be referred by a parent.

All information contained on the referral form must be captured in the database this includes:

student id, durham public school student ID, first name, last name, middle name, school, grade (9-12), address, city, state, ZIP, home phone, cell phone, email, DOB, concerns (from check list: gang involvement, substance use or abuse, recent history of fighting or aggression, recent history of suicidal thoughts or attempts, suspended more than once this school year, oppositional behavior, low intellectual functioning, homelessness or risk of homelessness, other), student strengths, foster care, juvenile probation, number of suspensions in previous 12 months, risk assessment score, trauma disclosed, expected graduation date, actual graduation date.

Rebound staff must add the following information:
Student Demographic information: race/ethnicity, free/reduced lunch Y/N, IEP, gender, language spoken at home

GUARDIAN

Each student record must be linked to a parent or guardian with the following data: guardian id, f rst name, last name, address, city, state, ZIP, email, and phone number(s) (home, work, cell), relationship to student. A student must have one guardian, but may have more than one guardian on f le. Guardians may have one or more children in the program.

Guardian to Student is a many-to-many relationship and will be connected via an intersection table.

REFERRAL

For each individual referral for a student (some students are referred multiple times for repeated suspensions) the following data needs to be captured: student id, referral type (school, self, parent/guardian, court), referrant id, referral date, reason for suspension, checkbox for received parent permission for Rebound referral, reason for not attending Rebound (in cases where the student chooses not to attend Rebound during the suspension).

Referral types:
- SELF (self-referrals will link back to the student)
- GUARDIAN (parent/guardian referrals will link back to the guardian table)
- SCHOOL (Durham County Public School referrals will link back to the DCPS table)
- COURT(court referrals will link back to the justice table)

Referrals made by students and parents will link back to their contact information contained in the student and guardian tables.

REFERRAL (continued)

School Referrals
DCPS referrals will link back to a DCPS table containing the contact information of the referrant: referrant id (employee id), f rst name, last name, school, phone number, email, position/title (e.g. guidance counselor, principal).

Court Referrals
Data contained in Court Referral forms will be collected in the JUSTICE table. Fields include: referral id, NC-JOIN id, program, county, juvenile justice involvement, court ordered, diversion plan or contract, risk score.

Student information contained in NC DPS JJ/JCPC referrals is considerable, however, this aspect of this database requires further analysis and portions of this data is out of scope at this time.

REBOUND SUSPENSION

For each suspension spent at Rebound the following information must be kept:
suspension id, referral id, start date, end date, length of suspension (number of days), level of completion, student reason for attending rebound, assigned staff, level of engagement, tree completed, exit survey completed, wrap-up meeting completed, schoolwork assessment completed.

SERVICE

Students may receive a variety of individualized counseling and with counselors, tutors and social workers, and in addition may sometimes be referred to other care providers or organizations. Data to be captured includes: suspension id, service referral indicator, date of service or referral, service type, provider id, duration (# hours), referred service provided indicator, follow-up date, notes.

PROVIDER

Provider id, provider type, f rst name, last name, organization, home phone number, cell phone number, work phone number, email, address, city, state, zip, website, note.

ATTENDANCE SCHEDULE

Dates that each students are in attendance at Rebound must be captured and sent back to their high school on a weekly basis: suspension id, date, suspension status, attendance status, note.

LOOK-UP TABLES

COMPLETION CODE

COMPLETION CODE	COMPLETION CODE DESCRIPTION
04	SUCCESSFUL COMPLETION
03	SATISFACTORY COMPLETION
02	UNSUCCESSFUL COMPLETION
01	TERMINATED FOR NONCOMPLIANCE

ENGAGEMENT LEVEL

ENGAGEMENT LEVEL CODE	ENGAGEMENT LEVEL CODE DESCRIPTION
04	HIGHLY ENGAGED
03	ENGAGED
02	PARTIALLY ENGAGED
01	DISENGAGED

SUSPENSION STATUS CODE

SUSPENSION STATUS CODE	SUSPENSION STATUS DESCRIPTION
01	ASSIGNED TO REBOUND
02	REBOUND CLOSED
03	REBOUND FULL
04	WAIT-LISTED
05	NOT ASSIGNED TO REBOUND

ATTENDANCE STATUS CODE

ATTENDANCE STATUS CODE	ATTENDENCE STATUS DESCRIPTION
01	PRESENT
02	ABSENT
03	EXCUSED ABSENCE
04	OTHER

REFERRAL TYPE

| REFERRAL TYPE CODE	REFERRAL TYPE DESCRIPTION
01	SELF
02	PARENT/GUARDIAN
03	SCHOOL
04	COURT

ENTITY RELATIONSHIPS

MATRIX

	STUDENT	GUARDIAN	REFERRAL	SUSPENSION	ATTENDANCE SCHDULE	SERVICE	PROVIDER	REFERRANT
STUDENT		HAS	RECEIVES A					
GUARDIAN	IS RESPONSIBLE FOR							
REFERRAL	IS WRITTEN FOR			INITIATES				IS WRITTEN BY
SUSPENSION			IS INITIATED BY		HAS A	INCLUDES		
ATTENDANCE SCHDULE				IS FOR				
SERVICE				OCCURS DURING			IS PROVIDED BY	
PROVIDER						PROVIDES		
REFERRANT			COMPLETES A					
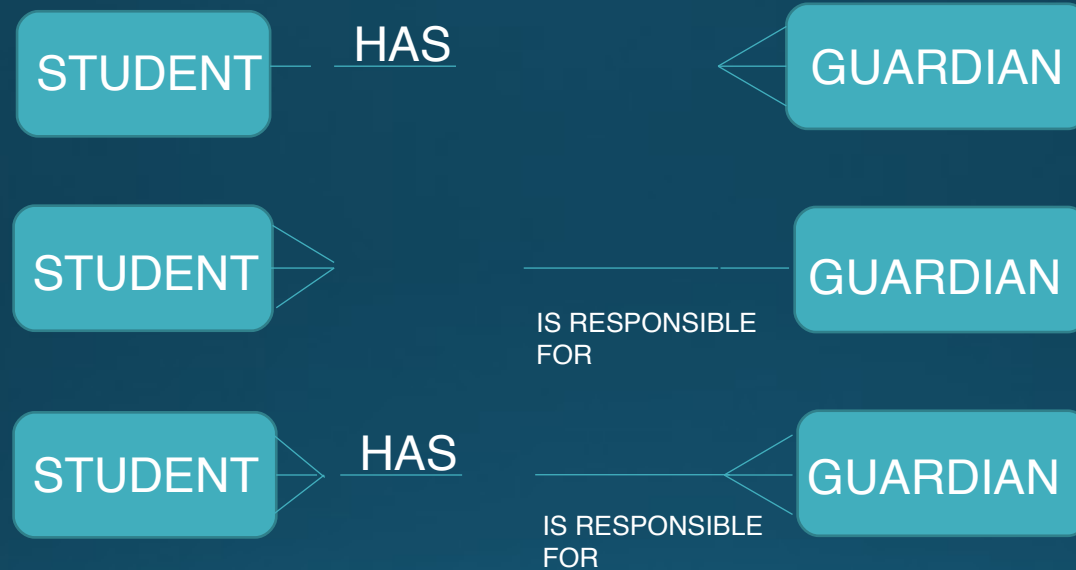
Each student must have one or more guardians.
Each guardian must be responsible for one or more students.
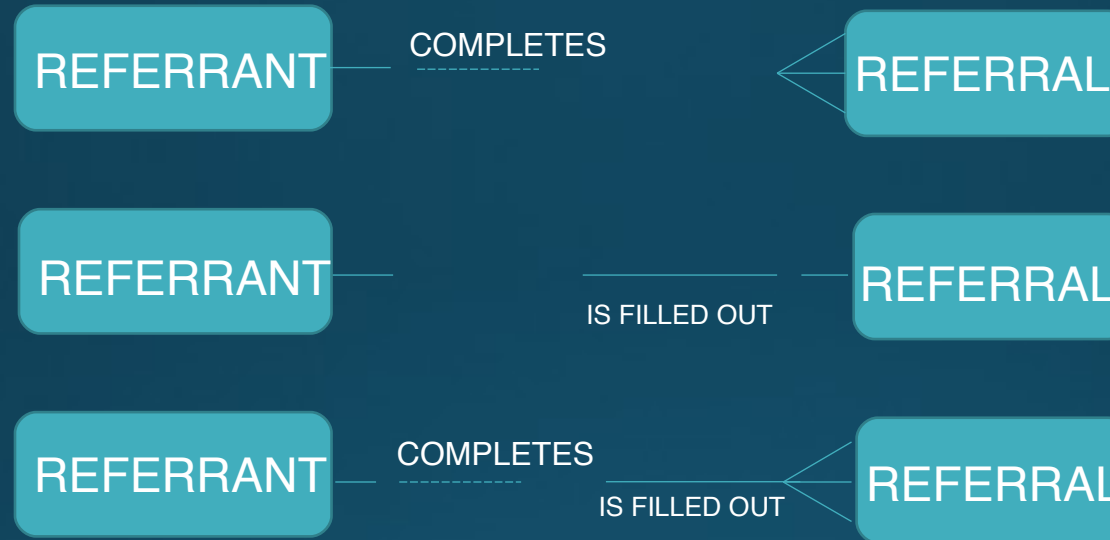
Each student must receive one or more referrals. Each referral must be written for one and only one student.
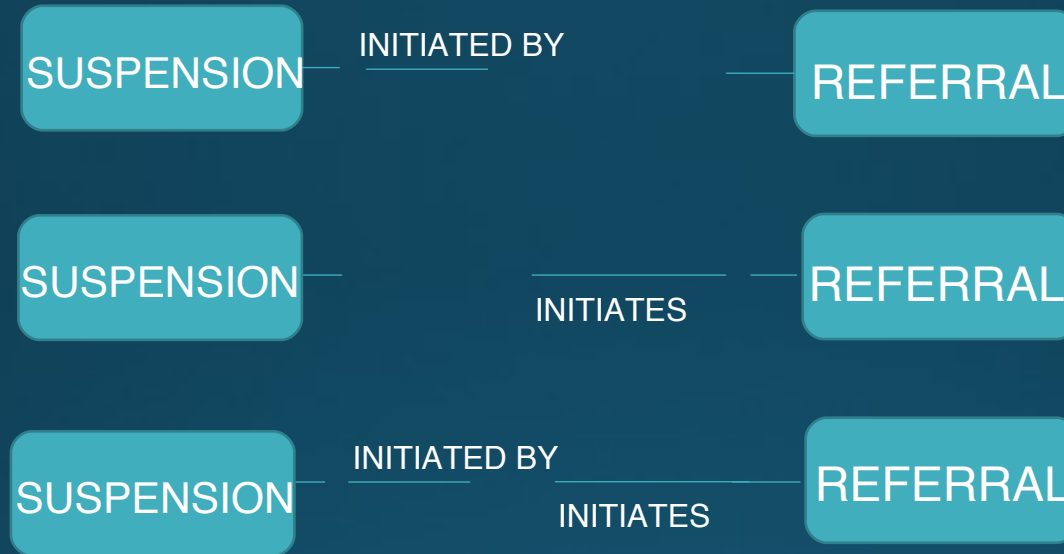
Each Rebound suspension must be initiated by one and only one referral.
Each referral may initiate one and only one Rebound suspension spent at Rebound.

Each referrant may complete one or more referrals.
Each referral to Rebound must be filled out by one and only one referrant.

PROVIDER —— PROVIDES ----- SERVICE

PROVIDER ——— IS PROVIDED BY —— SERVICE

PROVIDER —— PROVIDES ----- IS PROVIDED BY SERVICE
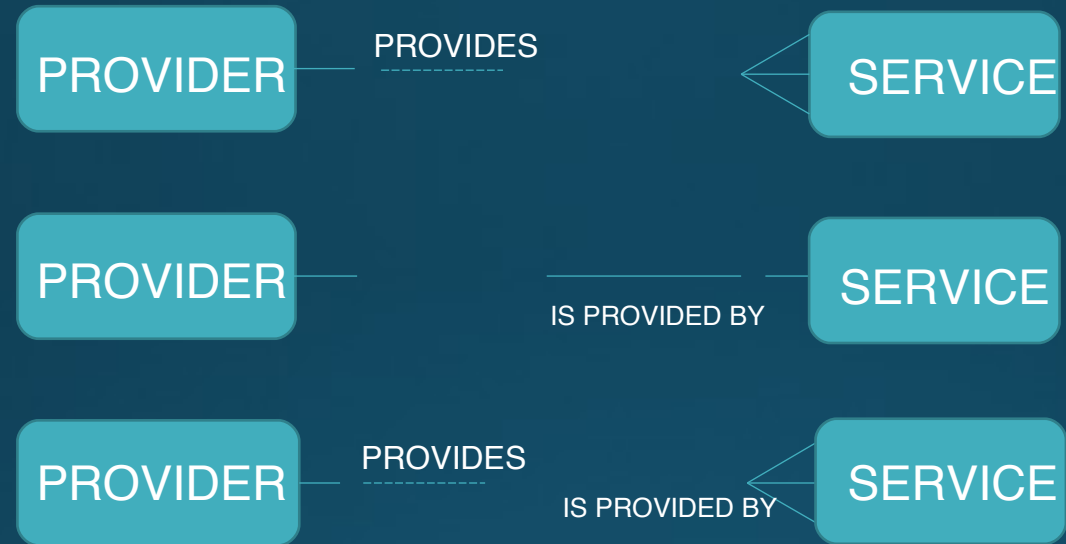
Each provider may provide one or more services.
Each service is provided by one and only one
provider.
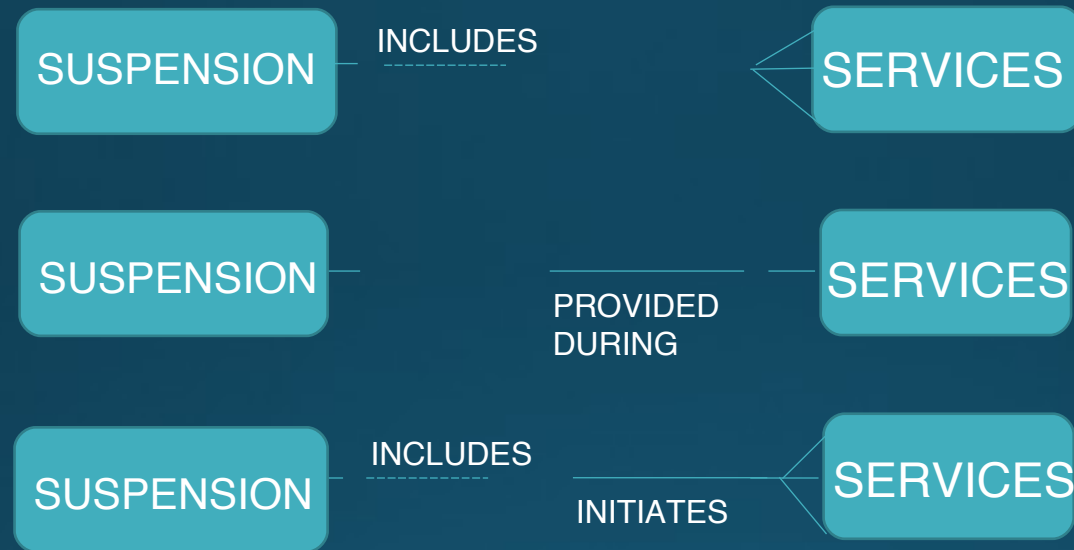
Each suspension may include one or more services.
Each service is provided in conjunction with one and only one suspension.

Each suspension must have one or more attendance schedule records (one for each day).
Each attendance schedule record must be for one and only one suspension.

REBOUND
ENTITY RELATIONSHIP DIAGRAM
Part A

ATTENDANCE_SCHEDULE
- suspension id
- date
- suspension status
- attendance status
- note

SUSPENSION STATUS
- suspension status code
- suspension status desc
- note

ATTENDANCE STATUS
- attendance code
- attendance status desc
- note

STUDENT
- student id
- dcps_id
- first name
- last name
- school
- grade
- address
- city
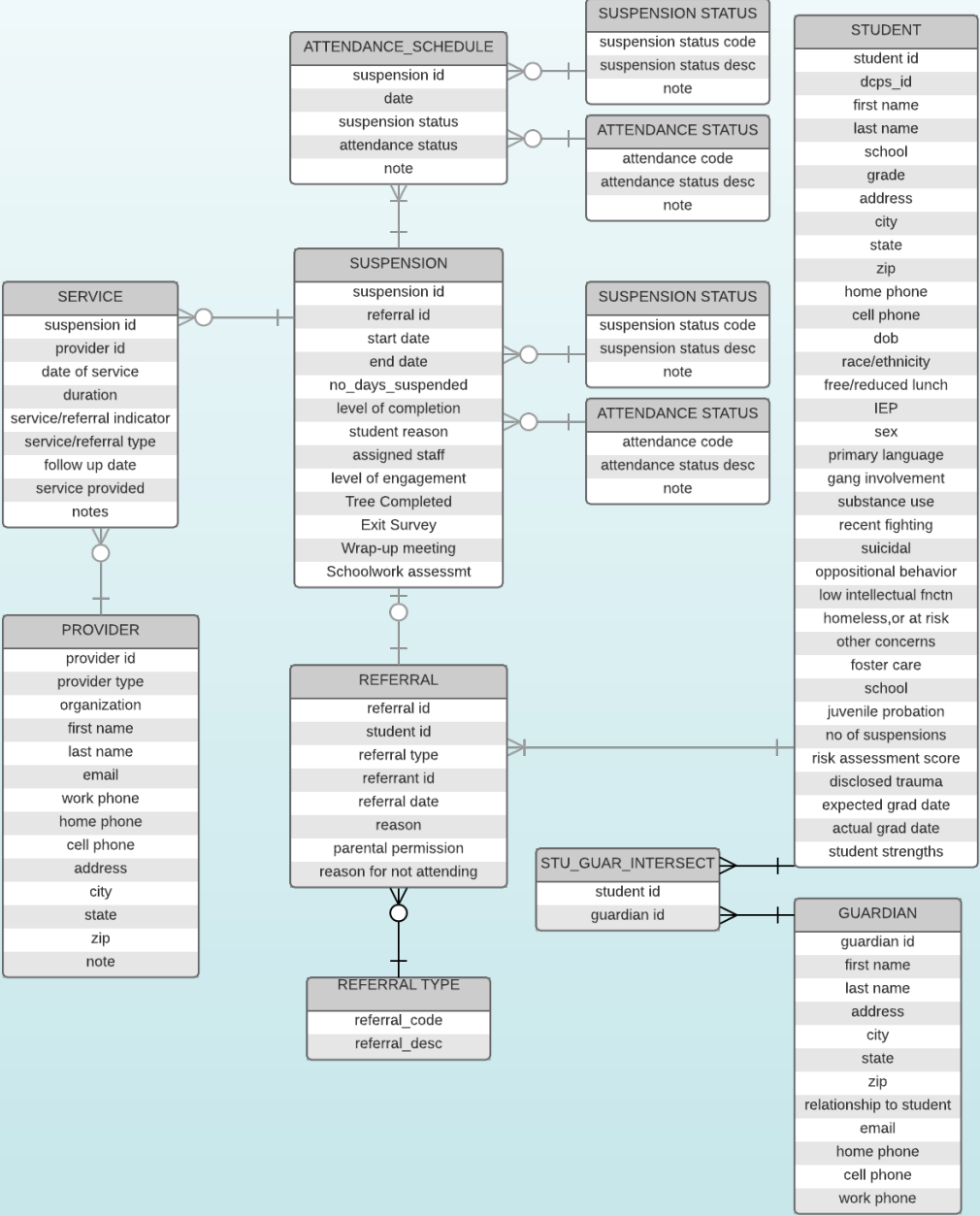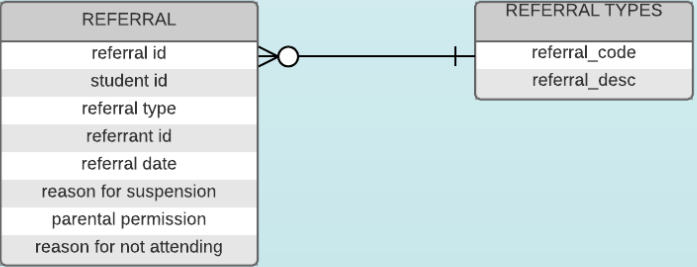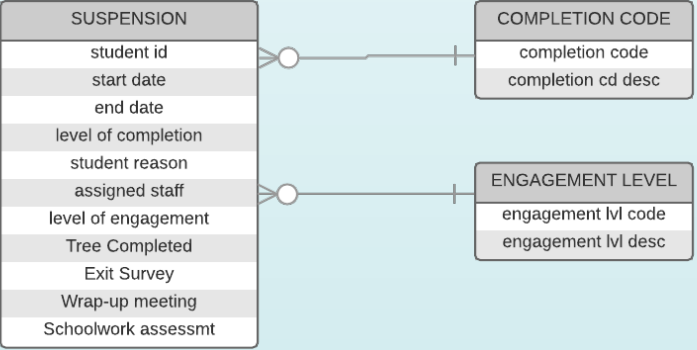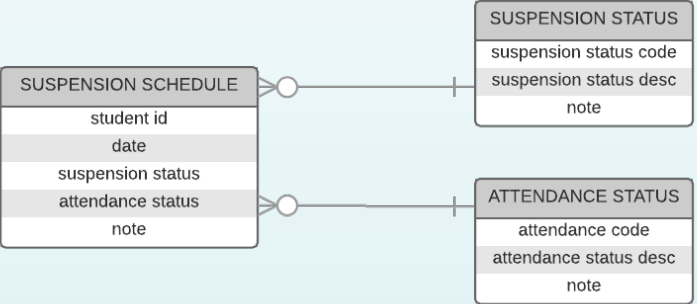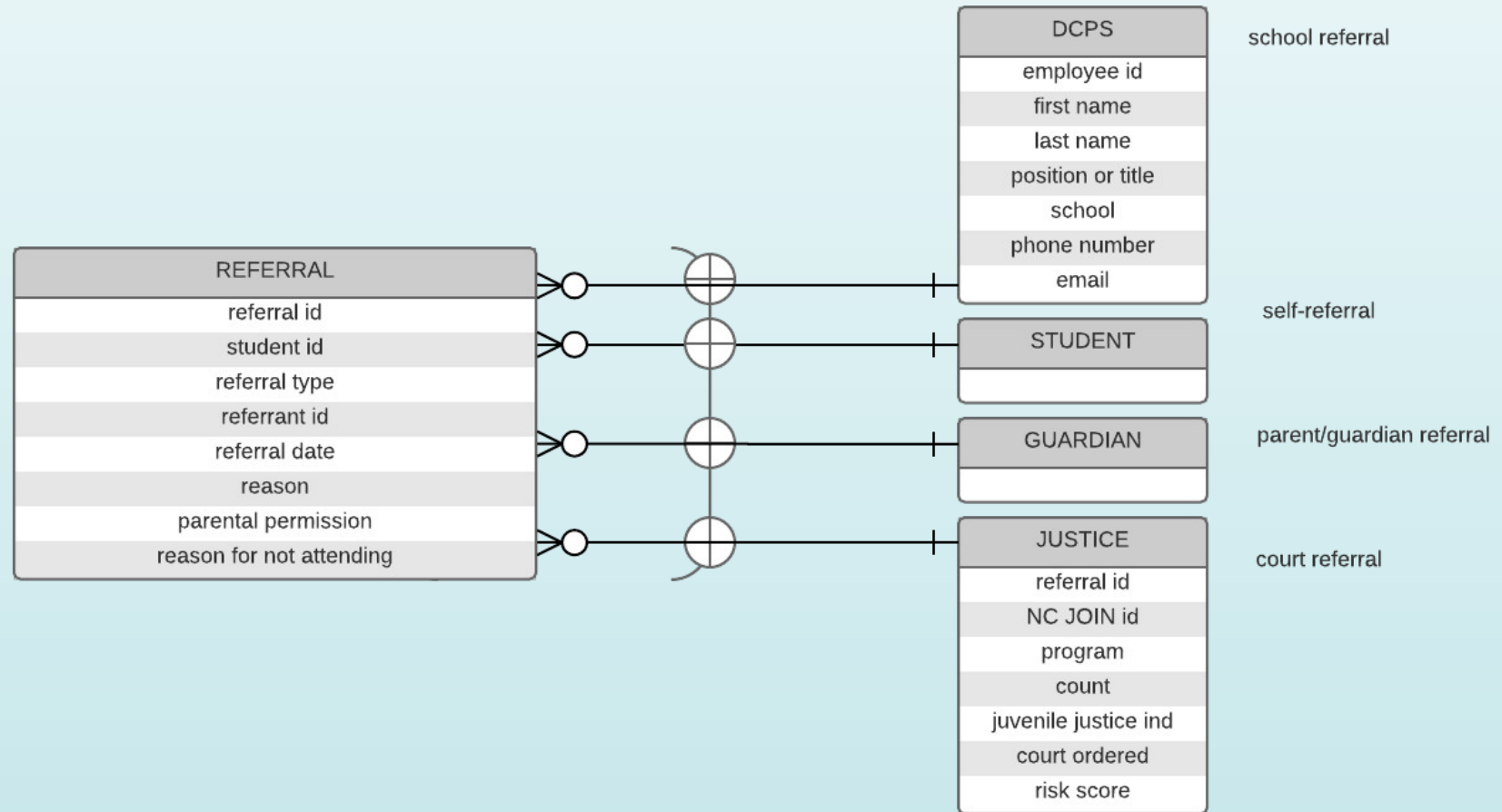- state
- zip
- home phone
- cell phone
- dob
- race/ethnicity
- free/reduced lunch
- IEP
- sex
- primary language
- gang involvement
- substance use
- recent fighting
- suicidal
- oppositional behavior
- low intellectual fnctn
- homeless,or at risk
- other concerns
- foster care
- school
- juvenile probation
- no of suspensions
- risk assessment score
- disclosed trauma
- expected grad date
- actual grad date
- student strengths

SUSPENSION
- suspension id
- referral id
- start date
- end date
- no_days_suspended
- level of completion
- student reason
- assigned staff
- level of engagement
- Tree Completed
- Exit Survey
- Wrap-up meeting
- Schoolwork assessmt

SUSPENSION STATUS
- suspension status code
- suspension status desc
- note

ATTENDANCE STATUS
- attendance code
- attendance status desc
- note

SERVICE
- suspension id
- provider id
- date of service
- duration
- service/referral indicator
- service/referral type
- follow up date
- service provided
- notes

PROVIDER
- provider id
- provider type
- organization
- first name
- last name
- email
- work phone
- home phone
- cell phone
- address
- city
- state
- zip
- note

REFERRAL
- referral id
- student id
- referral type
- referrant id
- referral date
- reason
- parental permission
- reason for not attending

STU_GUAR_INTERSECT
- student id
- guardian id

GUARDIAN
- guardian id
- first name
- last name
- address
- city
- state
- zip
- relationship to student
- email
- home phone
- cell phone
- work phone

REFERRAL TYPE
- referral_code
- referral_desc

SUSPENSION SCHEDULE

| student id |
| date |
| suspension status |
| attendance status |
| note |

SUSPENSION STATUS

| suspension status code |
| suspension status desc |
| note |

ATTENDANCE STATUS

| attendance code |
| attendance status desc |
| note |

SUSPENSION

| student id |
| start date |
| end date |
| level of completion |
| student reason |
| assigned staff |
| level of engagement |
| Tree Completed |
| Exit Survey |
| Wrap-up meeting |
| Schoolwork assessmt |

COMPLETION CODE

| completion code |
| completion cd desc |

ENGAGEMENT LEVEL

| engagement lvl code |
| engagement lvl desc |

REFERRAL

| referral id |
| student id |
| referral type |
| referrant id |
| referral date |
| reason for suspension |
| parental permission |
| reason for not attending |

REFERRAL TYPES

| referral_code |
| referral_desc |

REBOUND
REFERRAL ARC
Part C

REFERRAL
referral id
student id
referral type
referrant id
referral date
reason
parental permission
reason for not attending

DCPS
employee id
first name
last name
position or title
school
phone number
email

school referral

STUDENT

self-referral

GUARDIAN

parent/guardian referral

JUSTICE
referral id
NC JOIN id
program
count
juvenile justice ind
court ordered
risk score

court referral

LOGICAL MODEL
TABLE STRUCTURE, SAMPLE DATA AND SQL

REBOUND
LOGICAL DESIGN

SERVICES

PK	suspension_id	INT
PK	service_date	DATE
PK	ser_type	VARCHAR2
	ser_ref_ind	CHAR(1)
FK	provider_ID	INT
	duration_hrs	INT
	follow_up_date	DATE
	service_provided	CHAR(1)
	note	VARCHAR2

SCHEDULES

PK	suspension_id	INT
PK	date	DATE
FK	susp_status	INT
FK	attend_status	INT
	note	VARCHAR2

STUDENTS

PK	student_id	INT
UI	dcps_student_id	INT
	fname	VARCHAR2
	lname	VARCHAR2
	school	VARCHAR2
	grade	INT
	address	VARCHAR2
	city	VARCHAR2
	state	CHAR(2)
	zip	INT
	home_phone	CHAR(12)
	cell_phone	CHAR(12)
	dob	DATE
	race	VARCHAR2
	lunch	INT
	sex	CHAR(1)
	language	VARCHAR2
	gang	CHAR(1)
	substance	CHAR(1)
	fighting	CHAR(1)
	suicidal	CHAR(1)
	behavior	CHAR(1)
	low_intel_fn	CHAR(1)
	homelessness	CHAR(1)
	other	CHAR(1)
	foster	CHAR(1)
	juv_pro	CHAR(1)
	no_suspen	INT
	risk_assess	INT
	trauma	CHAR(1)
	exp_grad_date	DATE
	actual_grad_date	DATE
	iep	CHAR(1)
	risk_score	INT
	strengths	VARCHAR2

PROVIDERS

PK	provider_id	INT
	provider_type	VARCHAR2
	organization	VARCHAR2
	fname	VARCHAR2
	lname	VARCHAR2
	address	VARCHAR2
	city	VARCHAR2
	state	CHAR(2)
	zip	CHAR(10)
	email	VARCHAR2
	home_phone	CHAR(12)
	cell_phone	CHAR(12)
	work_phone	CHAR(12)
	note	VARCHAR2

GUARDIANS

PK	guar_id	INT
	fname	VARCHAR2
	lname	VARCHAR2
	address	VARCHAR2
	city	VARCHAR2
	state	CHAR(2)
	zip	CHAR(10)
	relation	VARCHAR2
	email	VARCHAR2
	home_phone	CHAR(12)
	cell_phone	CHAR(12)
	work_phone	CHAR(12)

SUSPENSIONS

PK	suspension_id	INT
FK	referral_id	INT
	start_date	DATE
	end_date	DAT
	no_days_suspended	INT
FK	lvl_complete	INT
FK	assign_staff	INT
FK	lvl_engamt	INT
	student_reason	VARCHAR(40)
	tree	CHAR(1)
	survey	CHAR(1)
	wrap_up	CHAR(1)
	school_assess	CHAR(1)

REFERRALS

PK	referral_id	INT
FK	student_id	INT
FK	referral_type	VARCHAR2(20)
FK	referrant_id	INT
	referral_date	DATE
	reason_suspended	VARCHAR2(20)
	guard_permis	CHAR(1)
	reason_not_atten	VARCHAR2(20)

STU_GUA_INTERSECTION

PK	student_id	INT
PK	guar_id	INT

LOOK-UP TABLES

COMPL_CODE

PK		
	completion_code	INT
	comp_code_desc	VARCHAR2

ENGAGEMENT_LVL

PK		
	engagement_lvl_cd	INT
	engagement_lvl_desc	VARCHAR2

SUSP_STATUS

PK		
	susp_status_cd	INT
	susp_status_desc	VARCHAR2
	susp_status_note	VARCHAR2

ATTENDANCE_STATUS

PK		
	attnd_cd	INT
	attnd_status_desc	VARCHAR2
	attnd_status_note	VARCHAR2

REFERRAL_TYPES

PK		
	ref_code	INT
	ref_desc	VARCHAR2(20)

ADDITIONAL TABLES

DCPS

PK		
	employee_id	INT
	fname	VARCHAR2
	lname	VARCHAR2
	title	VARCHAR2
	school	VARCHAR2
	phone	CHAR(12)
	email	VARCHAR2

JUSTICE

PK		
	referral_id	INT
	NC_JOIN_id	INT
	program	VARCHAR2(20)
	county	VARCHAR2(20)
	juvenile_justice_ind	CHAR(1)
	court_ordered_ind	CHAR(1)
	risk_score	INT

COMPLETION CODE

COMPLETION_CODE	compl_code	compl_code_desc
KEY	PK	
TYPE	INT	VARCHAR2(30)
INSTANCES:	04	Successful completion
	03	Satisfactory completion
	02	Unsuccessful completion
	01	Terminated for noncompliance

```
CREATE TABLE completion_code (
     compl_code INTEGER
          CONSTRAINT compl_code_pk PRIMARY
KEY,     compl_code_desc VARCHAR2(30));
```

ENGAGEMENT LEVEL

ENGAGEMENT_LVL	engagement_lvl_code	engagement_lvl_desc
KEY	PK	
TYPE	INT	VARCHAR2(30)
INSTANCES:	04	Highly engaged
	03	Engaged
	02	Partially engaged
	01	Disengaged

```
CREATE TABLE engagement_lvl (
       engagement_lvl_code INTEGER
             CONSTRAINT engagement_lvl_code_pk PRIMARY
KEY,       engagement_lvl_desc VARCHAR2(30)
);
```

ATTENDANCE STATUS

ATTENDANCE_STATUS	attend_status_code	attend_status_desc
KEY	PK	
TYPE	INT	VARCHAR2(20)
INSTANCES:	01	Present
	02	Absent
	03	Excused absence
	04	Other

CREATE TABLE attendance_status (

    attend_status_code INTEGER

       CONSTRAINT attend_status_code_pk PRIMARY KEY,
attend_status_desc VARCHAR2(20)

);

REFERRAL TYPES

REFERRAL_TYPE	referral_type_code	referral_type_desc
KEY	PK	
TYPE	INT	VARCHAR2(20)
INSTANCES:	01	Self-referral
	02	Guardian referral
	03	DCPS referral
	04	Court referral

```
CREATE TABLE referral_type (
    referral_type_code  INTEGER
        CONSTRAINT referral_type_code_pk PRIMARY
KEY,     referral_type_desc VARCHAR2(20)
);
```

SUSPENSION STATUS

SUSPENSION_STATUS	susp_status_code	susp_status_desc
KEY	PK	
TYPE	INT	VARCHAR2(45)
INSTANCES:	01	Assigned to Rebound
	02	Not assigned to Rebound – Rebound closed
	03	Not assigned to Rebound – Rebound full
	04	Wait-listed
	05	Elected not to attend Rebound

```
CREATE TABLE suspension_status (
    susp_status_code INTEGER
        CONSTRAINT susp_status_code_pk PRIMARY
KEY,    susp_status_desc VARCHAR2(45)
);
```

DURHAM COUNTY PUBLIC SCHOOLS

DCPS	employee_id	fname	lname	title	school	phone	email
KEY	PK						
TYPE	INT	VARCHAR(50)	VARCHAR(50)	VARCHAR(30)	VARCHAR(30)	VARCHAR(12)	VARCHAR(60)
INSTANCES:	101	Brian	Bailey	Counselor	Riverside HS	919-344-6789	bbailey@dcps.edu
	102	Gentry	Cook	Principal	Western HS	919-123-4567	gcook@dcps.edu

```
CREATE TABLE dcps (
      employee_id INTEGER
            CONSTRAINT employee_id_pk PRIMARY KEY,
      fname VARCHAR2(50),      lname VARCHAR2(50),
      title  VARCHAR2(30),  school VARCHAR2(30),
phone     VARCHAR2(12),  email VARCHAR2(60)
);
```

JUSTICE

JUSTICE	referral_id	NC_JOIN_id	program	county	juvenile_justice_ind	court_ordered_ind	risk_score	comments
KEY	PK							
TYPE	INT	INT	VARCHAR2 (40)	VARCHAR2 (40)	VARCHAR(1)	VARCHAR(1)	INT	VARCHAR (200)
INSTANCES:	100001	837282	DPS JJ	DURHAM	Y	Y	15	
	100516	847298	JCPC	DURHAM	Y	N	25	

```
CREATE TABLE justice (
        referral_id INTEGER
                CONSTRAINT referral_id_pk PRIMARY KEY,
        NC_JOIN_id INT,
        program VARCHAR2(40),
        county VARCHAR2(40),
        juvenile_justice_ind VARCHAR2(1),
        court_ordered_ind VARCHAR2(1),
        risk_score INT,
        comments VARCHAR2(200),
        outcome VARCHAR2(50),
        event VARCHAR(200)
);
```

GUARDIANS

GUARDIANS	guardian_id	fname	lname	address	city	state	zip	relation	email	home_phone	cell_phone	work_phone
KEY	PK											
TYPE	INT	VARCHAR2 (50)	VARCHAR2 (50)	VARCHAR2 (50)	VARCHAR2 (25)	VARCHAR2 (2)	VARCHAR2 (10)	VARCHAR (50)	VARCHAR (50)	CHAR (12)	CHAR (12)	CHAR (12)
INSTANCES:	502	Mary	Smith	101 Markhaim St.	Durham	NC	12121-1212	Mother	msmith@yah	919-222-2222	919-222-2222	919-222-2222

```
CREATE TABLE guardians (
    guardian_id INTEGER
        CONSTRAINT guardian_id_pk PRIMARY KEY,

    fname VARCHAR2(50),
    lname VARCHAR2(50),
    address VARCHAR2(50),
    city VARCHAR2(25),
    state VARCHAR2(2),
    zip VARCHAR2(10),
    relation VARCHAR2(50),
    email VARCHAR2(50),
    home_phone CHAR(12),
    cell_phone CHAR(12),
    work_phone CHAR(12)
);
```

STU_GUAR_INTERSECTION

STU_GUAR_INTER	student_id	guardian_id
KEY	PK, FK	PK, FK

```
CREATE TABLE stu_guar_inter (
    student_id INTEGER,
    guardian_id INTEGER,
    CONSTRAINT stu_guar_pk
        PRIMARY KEY (student_id, guardian_id)
);
```

REFERRALS

REFERRALS	referral_id	student_id	referral_ type	referral_ date	referrant_id	guard_ permis	reason_not_ attending	reason_ suspended
KEY	PK	FK, NOT NULL	FK, NOT NULL	NOT NULL				
TYPE	INT	INT	INT	DATE	INT	VARCHAR2 (1)	VARCHAR (50)	VARCHAR (40)
INSTANCES:	1	1001	3	05/01/16	101	Y		

```
 CREATE TABLE referrals (
       referral_id INTEGER
              CONSTRAINT rf_referral_id_pk PRIMARY KEY,
       student_id INTEGER,
       referral_type INTEGER,
       referral_date DATE,
       referrant_id INTEGER,
       guar_permis VARCHAR2(1),
       reason_not_attending VARCHAR2(50),
       reason_suspended VARCHAR2(50),
       CONSTRAINT rf_student_id_fk
              FOREIGN KEY  (student_id)     REFERENCES      STUDENTS(student_id),
       CONSTRAINT rf_referral_type_fk
              FOREIGN KEY  (referral_type) REFERENCES    REFERRAL_TYPE(referral_type_code)
 );
```

SUSPENSIONS

SUSPENSIONS	suspen_id	referral_id	start_date	end_date	no_days	lvl_complete	student_reason	assigned_staff	tree	survey	wrap_up	school_asses s	lvl_engmnt
KEY	PK	FK				FK		FK					FK
TYPE	INT	INT	DATE	DATE	INT	INT	VARCHAR 2(40)	INT	VARCHAR 2 (1)	VARCHAR2 (1)	VARCHA R2(1)	VARCHA R2(1)	INT
INSTANCES :	1	1	04/30/16	05/02/16	2	4		Mary Smith	Y	Y	Y	Y	4

```sql
CREATE TABLE suspensions (
suspen_id INTEGER
        CONSTRAINT suspen_id_pk PRIMARY KEY,
referral_id INTEGER,
start_date  DATE,
end_date DATE,
no_days INTEGER,
lvl_complete INTEGER,
student_reason VARCHAR2(40),
assigned_staff INTEGER,
tree VARCHAR2(1),
survey VARCHAR2(1),
wrap_up VARCHAR2(1),
school_assess VARCHAR2(1),
lvl_engagement INTEGER,
        CONSTRAINT su_referral_id_fk
            FOREIGN KEY (referral_id)     references REFERRALS(referral_id),
        CONSTRAINT su_lvl_complete_fk
            FOREIGN KEY (lvl_complete)    references    completion_code(compl_code),
        CONSTRAINT su_assigned_staff_fk
            FOREIGN KEY (assigned_staff)     references PROVIDERS(provider_id),
        CONSTRAINT su_lvl_engagement_fk
            FOREIGN KEY (lvl_engagement)     references engagement_lvl(engagement_lvl_code)
);
```

ATTENDANCE SCHEDULES

ATT_SCHED	suspension_id	susp_date	susp_status	attend_status	note
KEY	PK	PK	FK	FK	NULL
TYPE	INT	DATE	INT	INT	VARCHAR2 (200)
INSTANCES:	1	05/01/16	1	1	
	1	05/02/16	1	1	
	2	05/02/16	1	2	

```
CREATE TABLE att_schedules (
      suspension_id INTEGER
            CONSTRAINT suspension_id_pk PRIMARY KEY,      susp_date DATE,
      susp_status INT,
      attend_status INT,
      note VARCHAR2(200),
            CONSTRAINT susp_status_fk
                  FOREIGN KEY (susp_status)      references  SUSPENSIONS(suspen_id),
            CONSTRAINT attend_status_fk
                  FOREIGN KEY (attend_status)    references
ATTENDANCE_STATUS(attend_status_code)
);
```

SERVICES

SERVICES	suspension_id	service_date	service_type	ser_ref_ind	provider_id	duration_hrs	follow_up_date	service_provided	note
KEY	PK, FK	PK	PK		FK				
TYPE	INT	DATE	CHAR(1)	CHAR(1)	INT	INT	DATE	CHAR(1)	VARCHAR2(200)
INSTANCE	1	05/01/16	C	S	323	2		Y	

```
CREATE TABLE services (
        suspension_id INTEGER,
        service_date DATE,
        service_type INT,
        ser_ref_ind CHAR(1),
        provider_id INT,
        duration_hours INT,
        follow_up_date DATE,
        ser_provided_ind CHAR(1),
        note VARCHAR2(200),
                CONSTRAINT service_pk PRIMARY KEY (suspension_id, service_date, service_type),
                CONSTRAINT ser_provider_id_fk
                        FOREIGN KEY (provider_id)      references      PROVIDERS(provider_id),
                CONSTRAINT ser_suspension_id_fk
                        FOREIGN KEY (suspension_id)      references      SUSPENSIONS(suspen_id)
);
```

STUDENTS

STUDENTS	student_id	dcps_id	school	grade	Fname	Lname	Address	City	State	Zip	Email	dob
KEY	PK											
TYPE	INT	INT	VARCHAR2(20)	INT	VARCHAR2(20)	VARCHAR2(20)	VARCHAR2(20)	VARCHAR2(20)	CHAR(2)	CHAR(10)	VARCHAR2(40)	DATE
INSTANCE	232	8443544	HILLSIDE	9	Debbie	Jones	111 Main St.	Durham	NC	11111-2222		03/07/00

	race	lunch	sex	home_language	gang	substance	fighting	suicidal	low_intel_fn	homeless	other_risk_factors	foster
KEY												
TYPE	VARCHAR2(20)	CHAR(1)	CHAR(1)		CHAR(1)	CHAR(1)	CHAR(1)	CHAR(1)	CHAR(1)	CHAR(1)	VARCHAR2(200)	CHAR(1)
INSTANCE		Y	F	English	N	N	Y	N	N	N		N

	juv_pro	no_suspen	risk_assess	trauma	exp_grad_dt	act_grad_dt	iep	strengths	home_phone	cell_phone	work_phone
KEY											
TYPE	CHAR(1)	INT	INT	CHAR(1)	DATE	DATE	CHAR(1)		CHAR(12)	CHAR(12)	CHAR(12)
INSTANCE	N	2	5	N	05/01/19		Y		919-222-1111		

```sql
create table students(
        student_id INTEGER
                constraint student_id_pk PRIMARY KEY,
        dcps_id INTEGER,
        school VARCHAR2(20),
        grade INTEGER,
        fname VARCHAR2(20),
        lname VARCHAR2(20),
        address VARCHAR2(20),
        city VARCHAR2(20),
        state_of_residence CHAR(2),
        zip CHAR(10),
        email VARCHAR2(40),
        dob DATE,
        race VARCHAR2(20),
        lunch CHAR(1),
        sex CHAR(1),  home_language
        VARCHAR2(20),
        gang CHAR(1),
        substance CHAR(1),
        f ighting CHAR(1),
        suicidal CHAR(1),
        low_intel_fn CHAR(1),
        homeless CHAR(1),
        other_risk_factors VARCHAR2(200),
        foster CHAR(1),
        juv_pro CHAR(1),
        no_suspen INTEGER,
        risk_assess INTEGER,  trauma CHAR(1),
        exp_drad_dt DATE,
        act_grad_dt DATE,
        iep CHAR(1),
        strengths VARCHAR2(200),
        home_phone CHAR(12),
        work_phone CHAR(12),
        cell_phone CHAR(12)
);
```

PROVIDERS

PROVIDERS	provider_id	provider_type	Org	Fname	Lname	Address	City	State	Zip	Email	home_phone	cell_phone	work_phone	note	website
KEY	PK														
TYPE	INT	VARCHAR2(20)	VARCHAR2(20)	VARCHAR2(20)	VARCHAR2(20)	VARCHAR2(20)	VARCHAR2(20)	CHAR(2)	CHAR(10)	VARCHAR2(40)	CHAR(12)	CHAR(12)	CHAR(12)	VARCHAR2(200)	VARCHAR2(50)
INSTANCE	232	COUSELING	MyCouseling	Linda	Mavery	111 Main St.	Durham	NC	11111-2222	lmavery@mycounseling.com	919-222-1111				

```
CREATE TABLE providers (
        provider_id INTEGER
                CONSTRAINT provider_id_pk PRIMARY KEY,
        provider_type VARCHAR2(20),
        org VARCHAR2(20),
        fname VARCHAR2(20),
        lname VARCHAR2(20),
        address VARCHAR2(20),
        city VARCHAR2(20),
        state CHAR(2),
        zip CHAR(10),
        email VARCHAR2(40),
        home_phone CHAR(12),
        cell_phone CHAR(12),
        work_phone CHAR(12),
        note VARCHAR2(200),
        website VARCHAR2(50)
);
```

REPORTING REQUIREMENTS

Weekly attendance reports

Central office report: first name, last name, school, grade, dates attended Rebound
School reports: (same as above minus school, but broken down by school and sent to each principal)

Quarterly/Annual reports

Quarterly and annual reports contain basic information on the students who have attended Rebound: total number of students served broken down by school, grade level, sex, race, primary language spoken in the home, court involvement, free/reduced lunch, level of engagement and level of completion statistics.

Additional information includes: average number of days at Rebound, total number of student-days at rebound, a break-down of time allocated to various Rebound activities, number of referrals from Rebound to other organizations.

The data is supplemented with qualitative information and summaries of data from the student and parent surveys.

Phase III: Metrics and comparative data

Requires further analysis.

Additional data that would allow Rebound to draw powerful conclusions about the efficacy of its program include:

Individual student data:
Quarterly grades for grades 9-12 (or GPA), tardies, absences, infractions, suspensions, and graduation date for all students referred to rebound (whether they are program participants or not)

This would allow Rebound to evaluate whether a students grades and behaviour changed after rebound, and how students that were referred to rebound but did not attend faired compared to students who did attend rebound.

School-wide Durham County data:
Suspension data
number of suspensions quarterly broken down by: offense, school, grade, expected graduation date

Graduation rate:
percent of each cohort of students graduating broken down by:
expected graduation date, school, graduation rate broken down by school, demographics and whether student has been suspended or not.

Long-term follow-up voluntary surveys of Rebound participants:
Similar to existing surveys but over a longer time frame.