Table: administrator		
Column	Data type	Constraints
adminId	INTEGER	•NOT NULL •UNIQUE
Global table constraints		
•PRIMARY KEY("adminId" AUTOINCREMENT)		

Table: assignment		
Column	Data type	Constraints
assignmentId	INTEGER	•PRIMARY KEY •UNIQUE •NOT NULL
description	TEXT	
dueDate	DATETIME	
assignmentTitle	VARCHAR	
classId	INTEGER	•REFERENCES class (classId) •NOT NULL

Table: audio		
Column	Data type	Constraints
audioId	INTEGER	•PRIMARY KEY •UNIQUE •NOT NULL
userId	INTEGER	•REFERENCES user (userId) •NOT NULL
nativeText	VARCHAR	
englishTranslation	VARCHAR	
audioLength	TEXT	
uploadDate	DATE	
fileLocation	VARCHAR	
languageId	INTEGER	•REFERENCES language (languageId)

Table: auth_group		
Column	Data type	Constraints
id	integer	•NOT NULL •PRIMARY KEY AUTOINCREMENT
name	varchar	•NOT NULL •UNIQUE

Table: auth_group_permissions		
Column	Data type	Constraints
id	integer	•NOT NULL •PRIMARY KEY AUTOINCREMENT
group_id	integer	•NOT NULL •REFERENCES "auth_group" ("id")
permission_id	integer	•NOT NULL •REFERENCES "auth_permission" ("id")

Table: auth_permission		
Column	Data type	Constraints

id	integer	•NOT NULL
		•PRIMARY KEY AUTOINCREMENT
content_type_id	integer	•NOT NULL
		•REFERENCES "django_content_type" ("id")
codename	varchar	•NOT NULL
name	varchar	•NOT NULL

Table: auth_user

Column	Data type	Constraints
id	integer	•NOT NULL
		•PRIMARY KEY AUTOINCREMENT
password	varchar	•NOT NULL
last_login	datetime	•NULL
is_superuser	bool	•NOT NULL
username	varchar	•NOT NULL
		•UNIQUE
last_name	varchar	•NOT NULL
email	varchar	•NOT NULL
is_staff	bool	•NOT NULL
is_active	bool	•NOT NULL
date_joined	datetime	•NOT NULL
first_name	varchar	•NOT NULL

Table: auth_user_groups

Column	Data type	Constraints
id	integer	•NOT NULL
		•PRIMARY KEY AUTOINCREMENT
user_id	integer	•NOT NULL
		•REFERENCES "auth_user" ("id")
group_id	integer	•NOT NULL
		•REFERENCES "auth_group" ("id")

Table: auth_user_user_permissions

Column	Data type	Constraints
id	integer	•NOT NULL
		•PRIMARY KEY AUTOINCREMENT
user_id	integer	•NOT NULL
		•REFERENCES "auth_user" ("id")
permission_id	integer	•NOT NULL
		•REFERENCES "auth_permission" ("id")

Table: class

Column	Data type	Constraints
classId	INTEGER	•NOT NULL
		•UNIQUE
startDate	datetime	•NOT NULL
endDate	datetime	•NOT NULL
className	INTEGER	•NOT NULL
Global table constraints		
•PRIMARY KEY("classId" AUTOINCREMENT)		

Table: django_admin_log

Column	Data type	Constraints
id	integer	•NOT NULL •PRIMARY KEY AUTOINCREMENT
action_time	datetime	•NOT NULL
object_id	text	•NULL
object_repr	varchar	•NOT NULL
change_message	text	•NOT NULL
content_type_id	integer	•NULL •REFERENCES "django_content_type" ("id")
user_id	integer	•NOT NULL •REFERENCES "auth_user" ("id")
action_flag	smallint unsigned	•NOT NULL •CHECK ("action_flag" >= 0)

Table: django_content_type		
Column	Data type	Constraints
id	integer	•NOT NULL •PRIMARY KEY AUTOINCREMENT
app_label	varchar	•NOT NULL
model	varchar	•NOT NULL

Table: django_migrations		
Column	Data type	Constraints
id	integer	•NOT NULL •PRIMARY KEY AUTOINCREMENT
app	varchar	•NOT NULL
name	varchar	•NOT NULL
applied	datetime	•NOT NULL

Table: django_session		
Column	Data type	Constraints
session_key	varchar	•NOT NULL •PRIMARY KEY
session_data	text	•NOT NULL
expire_date	datetime	•NOT NULL

Table: feedback		
Column	Data type	Constraints
feedbackId	INTEGER	•NOT NULL •UNIQUE •PRIMARY KEY
writtenComments	TEXT	
rating	INTEGER	•NOT NULL
audioFeedbackLocation	VARCHAR	•NOT NULL
audioId	INTEGER	•REFERENCES audio (audioId) •NOT NULL
raterName	VARCHAR	•NOT NULL

Table: language		
Column	Data type	Constraints

languageId	INTEGER	•PRIMARY KEY
		•UNIQUE
		•NOT NULL
languageName	VARCHAR	

Table: learner		
Column	Data type	Constraints
learnerId	INTEGER	•NOT NULL
		•UNIQUE
Global table constraints		
•FOREIGN KEY("learnerId") REFERENCES "user"("userId")		
•PRIMARY KEY("learnerId")		

Table: linkAudios		
Column	Data type	Constraints
audioId	INTEGER	•REFERENCES audio (audioId)
		•NOT NULL
linkId	INTEGER	•REFERENCES multiLink (linkId)
		•NOT NULL

Table: multiLink		
Column	Data type	Constraints
linkId	INTEGER	•PRIMARY KEY AUTOINCREMENT
		•UNIQUE
		•NOT NULL
uniqueLink	VARCHAR	•UNIQUE
		•NOT NULL
creatorId	INTEGER	•REFERENCES user (userId)
		•NOT NULL

Table: researcher		
Column	Data type	Constraints
reacherId	INTEGER	•NOT NULL
		•UNIQUE
Global table constraints		
•FOREIGN KEY("reacherId") REFERENCES "user"("userId")		
•PRIMARY KEY("reacherId" AUTOINCREMENT)		

Table: teacher		
Column	Data type	Constraints
teacherId	INTEGER	•NOT NULL
		•UNIQUE
Global table constraints		
•PRIMARY KEY("teacherId" AUTOINCREMENT)		

Table: user		
Column	Data type	Constraints
userId	INTEGER	•NOT NULL
		•UNIQUE

firstName	TEXT	•NOT NULL
		•DEFAULT ' '
lastName	TEXT	•NOT NULL
		•DEFAULT ' '
emailAddress	TEXT	•NOT NULL
		•DEFAULT ' '
password	varchar	
dateJoined	datetime	•NOT NULL
		•DEFAULT ' '
lastLoginDate	datetime	•NOT NULL
		•DEFAULT ' '
is_Confirmed	BOOLEAN	
is_Learner	BOOLEAN	
is_Researcher	BOOLEAN	
is_Teacher	BOOLEAN	
confirmation	TEXT	
Global table constraints		
•PRIMARY KEY (userId)		

Index: auth_group_permissions_group_id_b120cbf9	
Property	Value
Indexed table	auth_group_permissions_group_id_b120cbf9
Unique index	No

Column	Collation	Sort order
group_id		

Index: auth_group_permissions_group_id_permission_id_0cd325b0_uniq	
Property	Value
Indexed table	auth_group_permissions_group_id_permission_id_0cd325b0_uniq
Unique index	Yes

Column	Collation	Sort order
group_id		
permission_id		

Index: auth_group_permissions_permission_id_84c5c92e	
Property	Value
Indexed table	auth_group_permissions_permission_id_84c5c92e
Unique index	No

Column	Collation	Sort order
permission_id		

Index: auth_permission_content_type_id_2f476e4b	
Property	Value
Indexed table	auth_permission_content_type_id_2f476e4b
Unique index	No

Column	Collation	Sort order
content_type_id		

Index: auth_permission_content_type_id_codename_01ab375a_uniq	
Property	Value
Indexed table	auth_permission_content_type_id_codename_01ab375a_uniq
Unique index	Yes

Column	Collation	Sort order

content_type_id		
codename		

Index: auth_user_groups_group_id_97559544

Property	Value
Indexed table	auth_user_groups_group_id_97559544
Unique index	No

Column	Collation	Sort order
group_id		

Index: auth_user_groups_user_id_6a12ed8b

Property	Value
Indexed table	auth_user_groups_user_id_6a12ed8b
Unique index	No

Column	Collation	Sort order
user_id		

Index: auth_user_groups_user_id_group_id_94350c0c_uniq

Property	Value
Indexed table	auth_user_groups_user_id_group_id_94350c0c_uniq
Unique index	Yes

Column	Collation	Sort order
user_id		
group_id		

Index: auth_user_user_permissions_permission_id_1fbb5f2c

Property	Value
Indexed table	auth_user_user_permissions_permission_id_1fbb5f2c
Unique index	No

Column	Collation	Sort order
permission_id		

Index: auth_user_user_permissions_user_id_a95ead1b

Property	Value
Indexed table	auth_user_user_permissions_user_id_a95ead1b
Unique index	No

Column	Collation	Sort order
user_id		

Index: auth_user_user_permissions_user_id_permission_id_14a6b632_uniq

Property	Value
Indexed table	auth_user_user_permissions_user_id_permission_id_14a6b632_uniq
Unique index	Yes

Column	Collation	Sort order
user_id		
permission_id		

Index: django_admin_log_content_type_id_c4bce8eb

Property	Value
Indexed table	django_admin_log_content_type_id_c4bce8eb
Unique index	No

Column	Collation	Sort order
content_type_id		

Index: django_admin_log_user_id_c564eba6	
Property	Value
Indexed table	django_admin_log_user_id_c564eba6
Unique index	No

Column	Collation	Sort order
user_id		

Index: django_content_type_app_label_model_76bd3d3b_uniq	
Property	Value
Indexed table	django_content_type_app_label_model_76bd3d3b_uniq
Unique index	Yes

Column	Collation	Sort order
app_label		
model		

Index: django_session_expire_date_a5c62663	
Property	Value
Indexed table	django_session_expire_date_a5c62663
Unique index	No

Column	Collation	Sort order
expire_date		