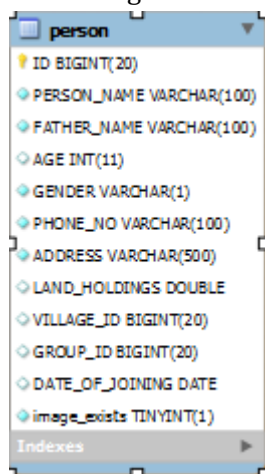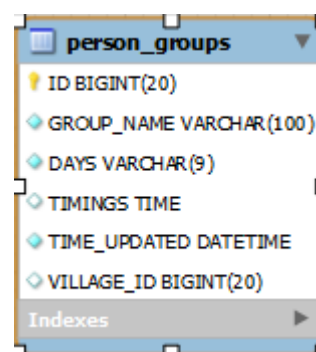# digital**GREEN** Database Schema

1. Geographies: The schema has separate tables for different levels, such as village, district. These are:
   a. VILLAGE
   b. BLOCK
   c. DISTRICT
   d. STATE
   e. COUNTRY
2. Person Information: There are two tables describing person details
   a. PERSON consists of information of each person participating in the Digital Green program. Fields like name, age are present in the table. It has a foreign key to the PERSON_GROUPS table (group_id).
   b. PERSON_GROUPS table contains the information of different self help groups (SHG). There can be multiple SHGs in a single village. The video screenings are organised for one or many SHGs.
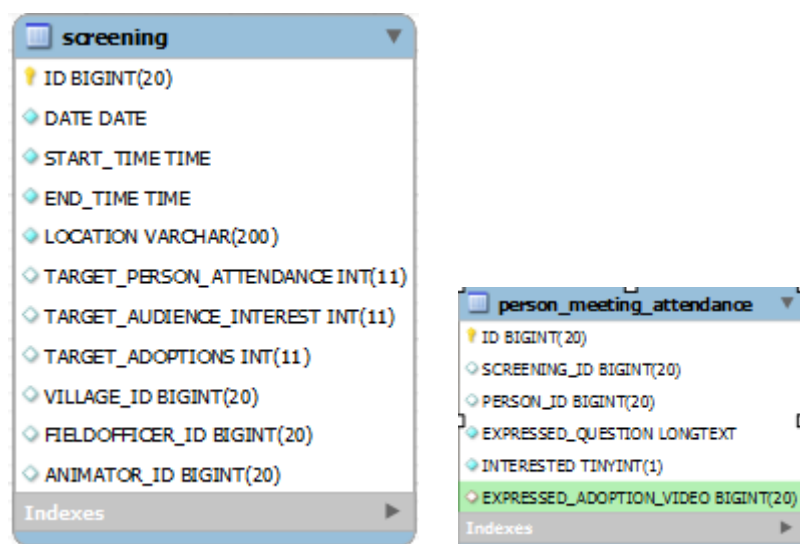
person
- ID BIGINT(20)
- PERSON_NAME VARCHAR(100)
- FATHER_NAME VARCHAR(100)
- AGE INT(11)
- GENDER VARCHAR(1)
- PHONE_NO VARCHAR(100)
- ADDRESS VARCHAR(500)
- LAND_HOLDINGS DOUBLE
- VILLAGE_ID BIGINT(20)
- GROUP_ID BIGINT(20)
- DATE_OF_JOINING DATE
- image_exists TINYINT(1)

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person_groups
- ID BIGINT(20)
- GROUP_NAME VARCHAR(100)
- DAYS VARCHAR(9)
- TIMINGS TIME
- TIME_UPDATED DATETIME
- VILLAGE_ID BIGINT(20)

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3. Screening Information: In the Digital Green model, a screening is defined as the event of showing a video to different SHGs with the help of an animator (a person from the community who conducts the screening and plays the video). An animator can have multiple roles; he could help organising the screening, help shooting a video or help facilitating the conversation in the video. The role of an animator can be understood by the context of its usage. In a screening, an animator plays the role of mediating a screening help for one or more SHGs and in which one or more videos may be shown.
   a. SCREENING table contains information of the screening that took place such as the date and time of screening, the animator who mediated in the screening. There is also a field called FIELDOFFICER who may be present to oversee the screening.
   b. PERSON_MEETING_ATTENDANCE is the relation which contains the farmers (field – person_id) who attended the screening (field – screening_id) and other information related to the attendance their attendance:
      i. *Expressed_Adoption_video* contains the information if the farmer mentions adopting any video which he saw previously. This adoption is still unverified.

ii. Interested : If the farmer found the current video interesting and would he be looking forward to adopt, it is logged by this field.

iii. Expressed_Question contains information about questions asked by the farmer during the screening, if any.

iv. The remaining fields like expressed_interest, expressed_adoption_practice_id, etc are now defunct and are not updated anymore.

4. Video Information: Three tables contain video related information as described below:.

a. VIDEO table contains detailed information about the videos that are produced in Digital Green. Video production information like start date, end date, type of video, video approval status etcetera. This table contains all the videos that were produced which include rejected and unused videos.

i. The information whether the video is fit for dissemination (another term for screening) is contained in the *suitable_for* field –

Suitable For Column Value	Interpretation
1	Dissemination
2	Video Production Training
3	Dissemination Training
4	Nothing
5	Pending for Approval

ii. *facilitator_id* is the id of the person who helps facilitating the conversation with the actor in the video. There are a few defunct fields in the table like raw_file_name, movie_maker_project_file_name etc. Initially these videos were being hosted on our own server that's why these file names information was required. Now we are uploading the videos on youtube hence these fields no longer have any relevance. The table has a filed which contains the youtube_id to record the key to uploaded videos on youtube. Videos can be of multiple types which is recorded in *video_type* field –
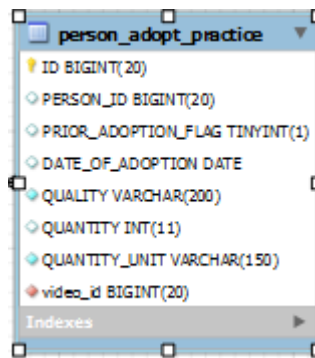
Video Type Colum Value	Interpretation
1	Demonstration

2	Success Story/Testimonial
3	Activity Introduction
4	Discussion
5	General Awareness

iii. The *viewers* column stores the number of viewers for a video, in a redundant manner (The same statistic can be calculated by summing the attendances of farmers in screening where this video was shown).

iv. The *related_practice_id* contains the foreign key to the practice that video belongs to.

b. SCREENING_VIDEOES_SCREENED is the relation that stores the screening-video pair signifying the videos shown in a particular screening. If more than one video was shown there will be multiple rows for that screening.

5. PERSON_ADOPT_PRACTICE is the relation which records videos adopted by farmers in their fields. Earlier this table contained the practices adopted by farmers but now we have changed the definition to videos adopted by farmers though the practice associated with the video is still present in the table for redundancy. Quantity field contains the unit of land in which the farmer adopted that particular technique shown in the video, whereas quality describes the quality of adoption (can be good, bad etc.)

person_adopt_practice
ID BIGINT(20)
PERSON_ID BIGINT(20)
PRIOR_ADOPTION_FLAG TINYINT(1)
DATE_OF_ADOPTION DATE
QUALITY VARCHAR(200)
QUANTITY INT(11)
QUANTITY_UNIT VARCHAR(150)
video_id BIGINT(20)
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6. PRACTICES table contains different practices that Digital Green videos fall into. In DG we define practice as the set of 5 levels which are Sector, Subsector, Topic, Subtopic and Subject, defined below:
   a. Sector: A broad category/ domain/ theme for example: Agriculture, Health.
   b. Sub-Sector: A sub-division of a sector, for example Nutrient Management, Nutrition.
   c. Practice: Actions, processes or specific methods, for example Grafting, Fertilizer Application.
   d. Sub-practice: Specific categories within a bigger practice, for example Chemical, Vermicompost.
   e. Subject: The name of the core product/crop/animal for example: Neem, Cow, Orange.

practices
ID BIGINT(20)
PRACTICE_NAME VARCHAR(200)
SEASONALITY VARCHAR(3)
SUMMARY LONGTEXT
practice_sector_id BIGINT(20)
practice_subsector_id BIGINT(20)
practice_topic_id BIGINT(20)
practice_subtopic_id BIGINT(20)
practice_subject_id BIGINT(20)
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