

GLOBAL GREEN VISA PROJECT

SUMMATIVE GROUP 7

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Global_green_visa_holders

<u>holder_ID</u>	first_name	last_name	passport_no	email	Passport expiry
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Participating Countries

G-20_Nation - boolean(True/False)

<u>Country_ID</u>	Country_name	Region	G-20_Nation
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Partners

partner_id	organisation	address	years_in_partnership
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Participating_countries_partners

<u>partner_id</u>	<u>country_ID</u>
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GGV_fee_for_participant_countries

<u>GGV fee ID</u>	Country_ID	fee_for_neighboring	fee for G-20_Nation	fee for non-G-20_Nation
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Payment_details

QR_code - in the form of a URL

Preferred_investment(eg megafauna,bioconservation,watershed protection etc)

<u>payment_ID</u>	GGV_fee_ID	holder_ID	amount_paid	QR_code	preferred_investment	payment_date	expiry_date
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Escrow_account

Each country will have its own escrow account. This table assigns an ID for each country's escrow account

<u>escrow_ID</u>	country_ID
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Escrow_account_transaction

Payment from the user goes into the country's specific escrow account. This table keeps track of the payments into each of the escrow accounts. If one wants to know, for instance, the transactions into Kenya's escrow account, they will find the escrow_ID for Kenya, then filter this table to have records with escrow_ID for Kenya.

<u>Transaction_id</u>	payment_ID	escrow_ID
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Customer_travel_history

<u>cth_ID</u>	payment_ID	arrival_date	departure_date
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National_manager

<u>manager_ID</u>	country_ID	GGV_Purchases_for_country	No_GGV_Visitors	avg_visit_duration	GGV_visits_per_visitor	revenue_per_year	Total Bond Revenue Expenditures (per week month year)
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<u>manager_ID</u>	first_name	last_name	email_address	country_ID
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Beneficiaries

Beneficiary type could be NGO, etc

Trustfund_ID helps to know which country's trustfund they received money from

<u>beneficiary_ID</u>	Name_of_beneficiary	beneficiary_type	amount_allocated	purpose	date_issued	address	Previous_years_budget	Trust_fund_ID
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Bond

<u>bond_ID</u>	country_ID	face_value	maturity_period	start_date	end_date	coupon_rate
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Investor_bond_buyer

An investore could be a person or organization

<u>investor_ID</u>	organization	first_name	last_name	address	passport_no	country_of_origin
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Trust_fund_country

Each country will have it's own trust fund monitored by its board of directors. This table assigns an ID to each country's trust fund

<u>Trust_fund_ID</u>	country_ID
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Investment_purchase - Trust_fund(country specific) - connects investor and Bond

<u>investment_ID</u>	Trust_fund_ID	investor_ID	bond_ID	date_purchased	amount_received
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auditors_identification

<u>auditor_ID</u>	auditor_name
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Auditors for countries

Conservation_results_report - URL - Assumes only the most recent report will be stored

<u>auditor_ID</u>	country_ID	conservation_results_report	escrow_ID
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Directors

<u>director_ID</u>	first_name	last_name	passport_no	Field_of specialization	Years_of experience	email_address
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Trust_fund_a_board_manages

<u>board_ID</u>	Trust_fund_ID
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Board_a_director_belongs_to

<u>BD_ID</u>	board_ID	director_ID
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Advisor

<u>advisor_ID</u>	First_name	Last_name	Field_of specialization	years_of_experience	passport_no	email_address
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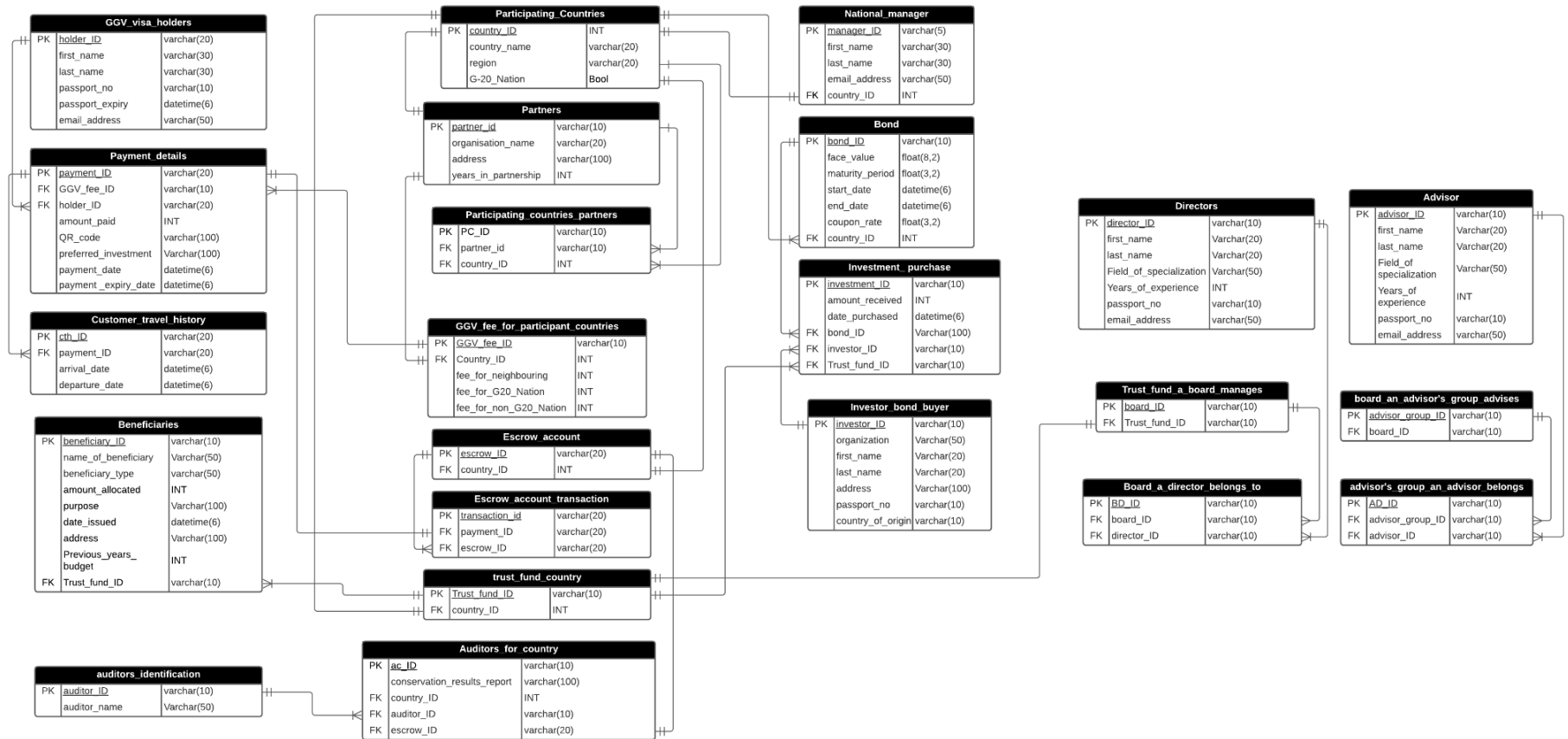
board_an_advisor's_group_advises

<u>advisor_group_ID</u>	board_ID
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advisor's_group_an_advisor_belongs

<u>AD_ID</u>	advisor_group_ID	advisor_ID
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Global Green Visa ERD:



Link to image: <https://drive.google.com/file/d/1QqIvdkAE2ZCZgyGoLnTEYYGA8OpVeJPX/view?usp=sharing>

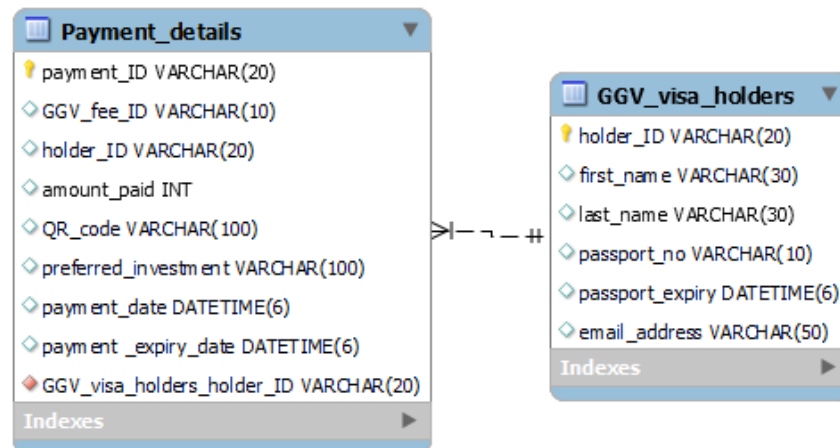
The Individual Relationships of our database is as the following: -

NO	Entity 01	Entity 02	Relation type
1	GGV_visa_holders	Payment_details	one to many relationship
2	Payment_details	Customer_travel_history	one to many relationship
3	Payment_details	Escrow_account_transaction	one to one relationship
4	GGV_fee_for_participant_countries	Payment_details	one to many relationship
5	trust_fund_country	Beneficiaries	one to many relationship
6	auditors_identification	Auditors_for_country	one to many relationship
7	Escrow_account	Auditors_for_country	one to one relationship
8	trust_fund_country	Investment_purchase	one to many relationship
9	trust_fund_country	Trust_fund_a_board_manages	one to one relationship
10	Escrow_account	Escrow_account_transaction	one to many relationship
11	GGV_fee_for_participant_countries	Partners	one to one relationship
12	Participating_Countries	Partners	one to one relationship
13	Participating_Countries	National_manager	one to one relationship
14	Participating_Countries	Bond	one to many

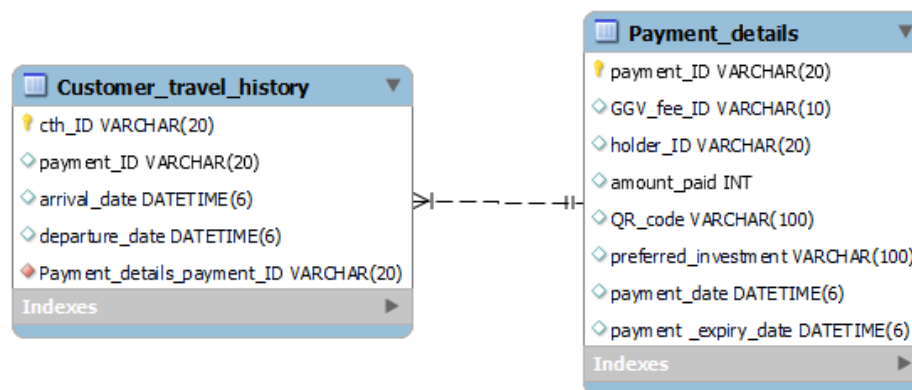
			relationship
15	Bond	Investment_purchase	one to many relationship
16	Investor_bond_buyer	Investment_purchase	one to many relationship
17	Participating_Countries	Partners	Many to many Relationship
18	Advisor	board_an_advisor's_group_advises	Many to many Relationship
19	Directors	Trust_fund_a_board_manages	Many to many Relationship

ER Diagrams of the relations by number is as the following:

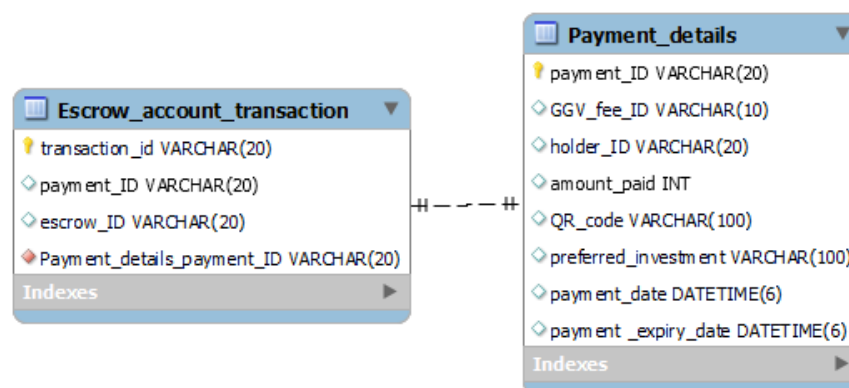
Relation 01:



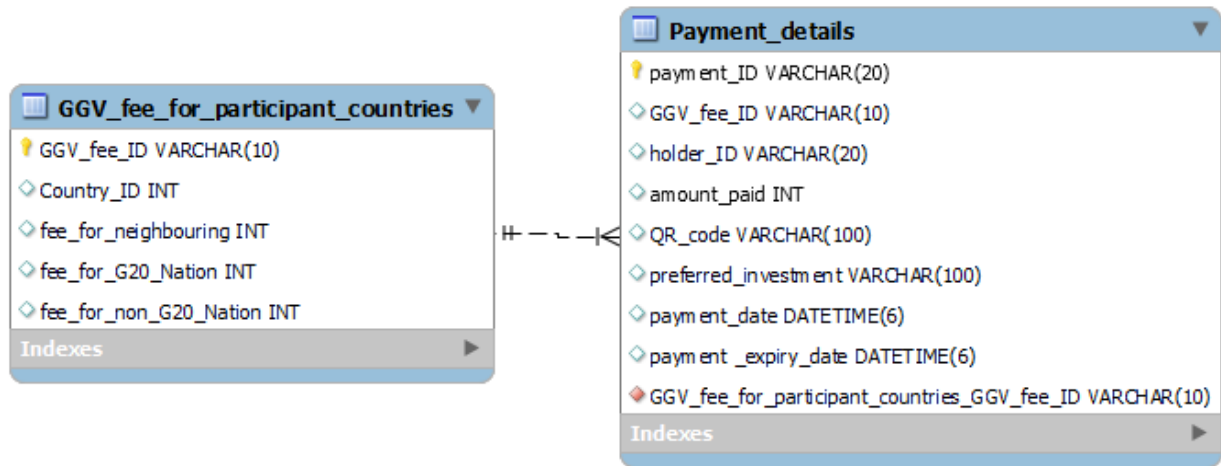
Relation 02:



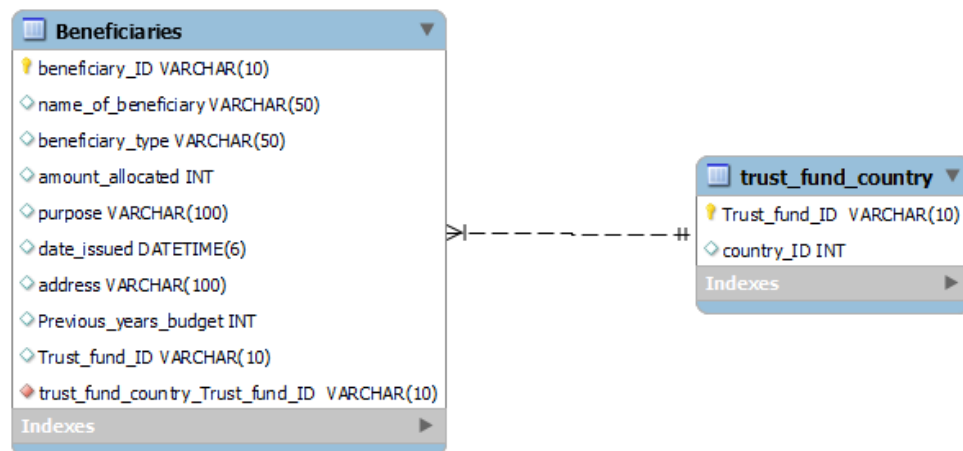
Relation 03:



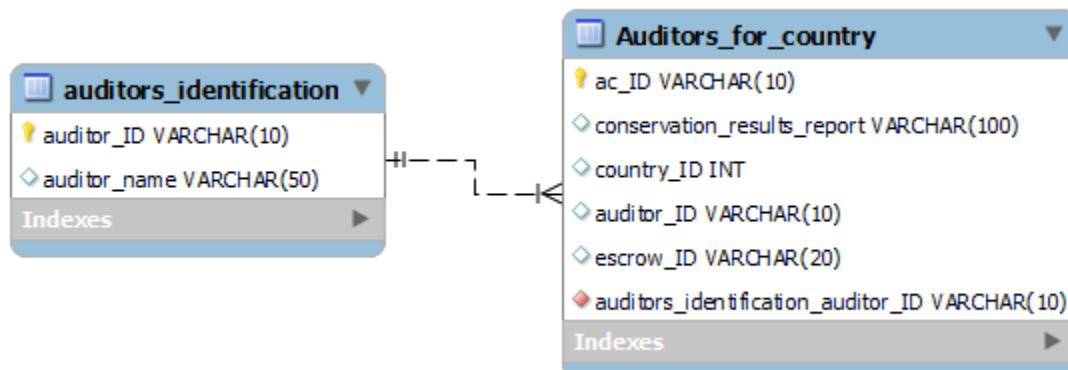
Relation 04:



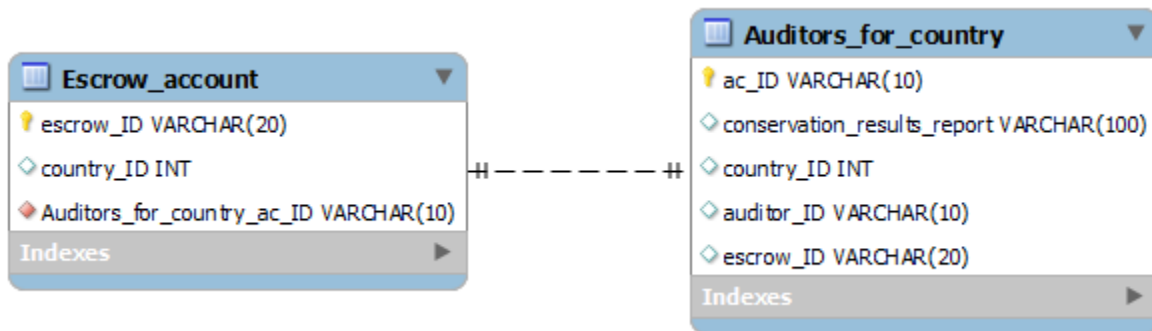
Relation 05:



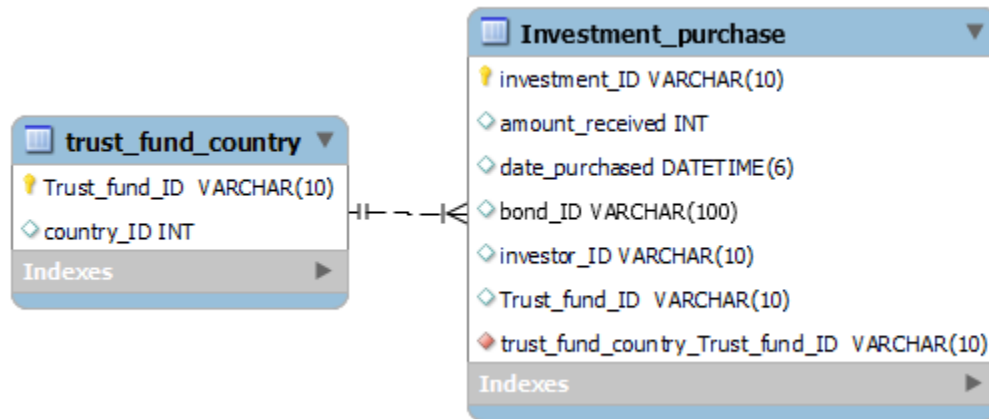
Relation 06:



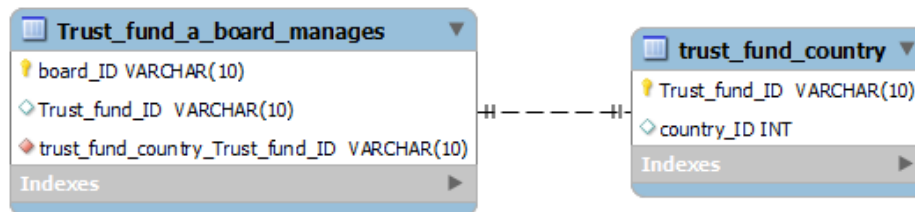
Relation 07:



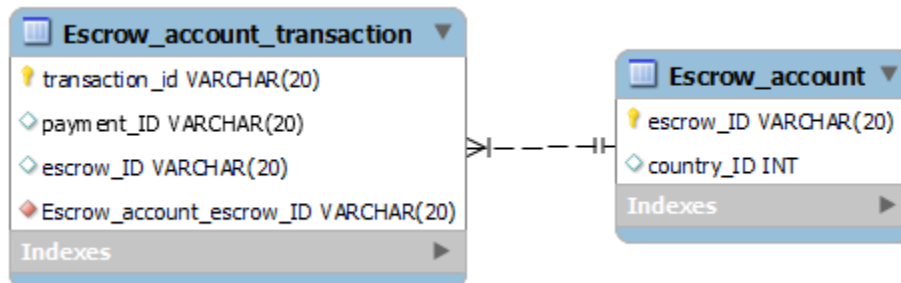
Relation 08:



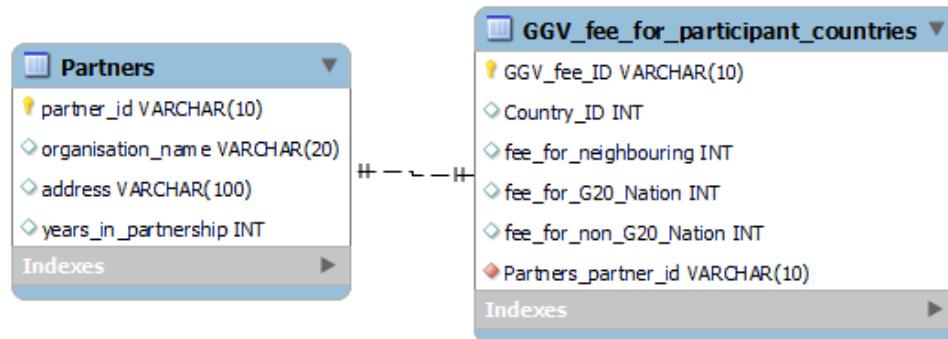
Relation 09:



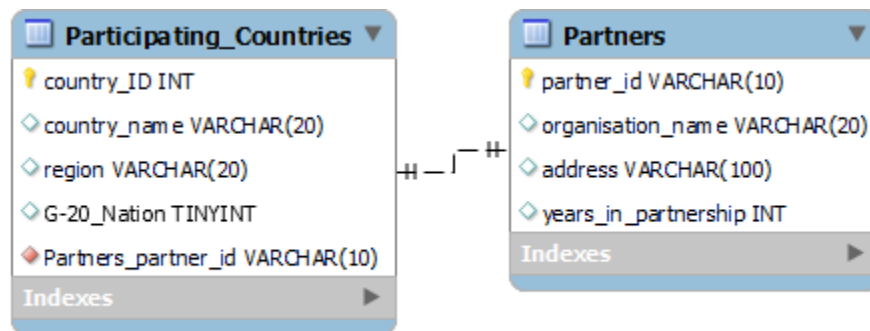
Relation 10:



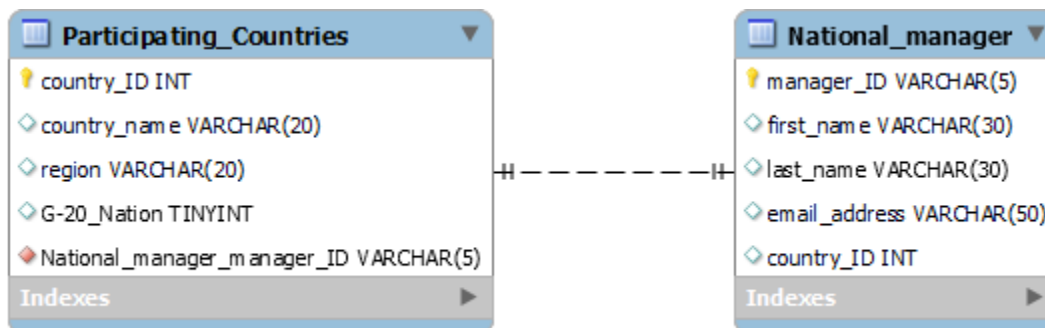
Relation 11:



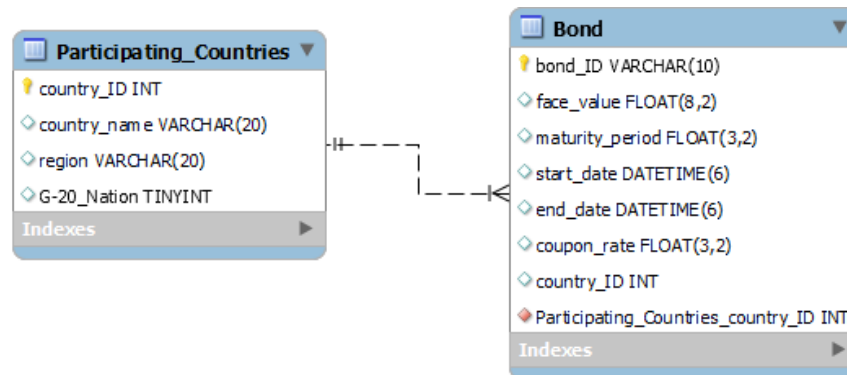
Relation 12:



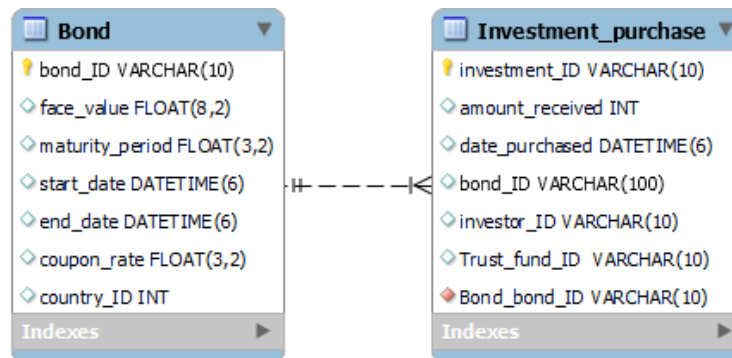
Relation 13:



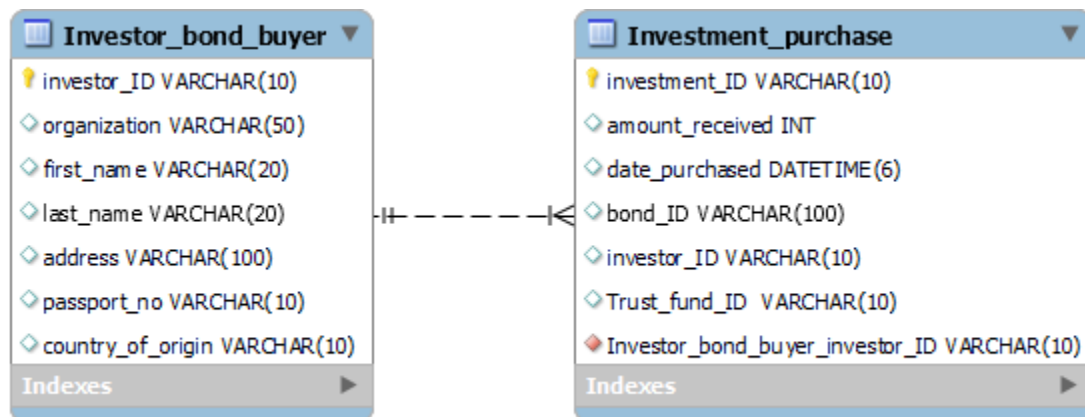
Relation 14:



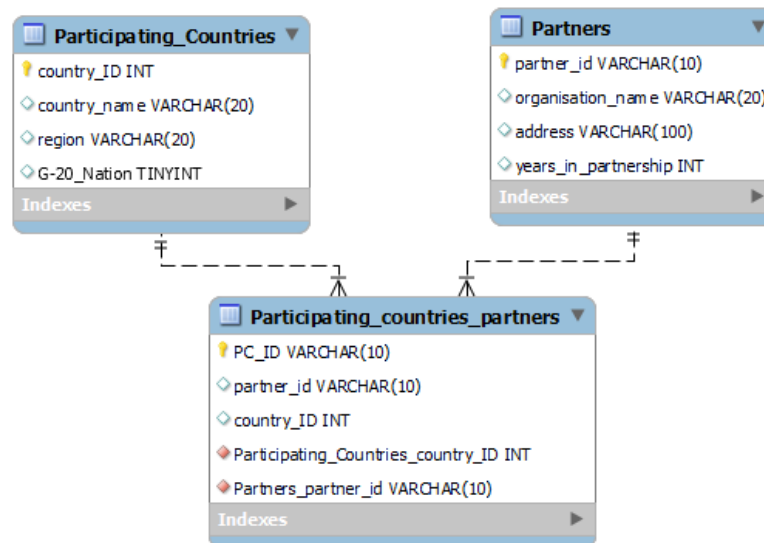
Relation 15:



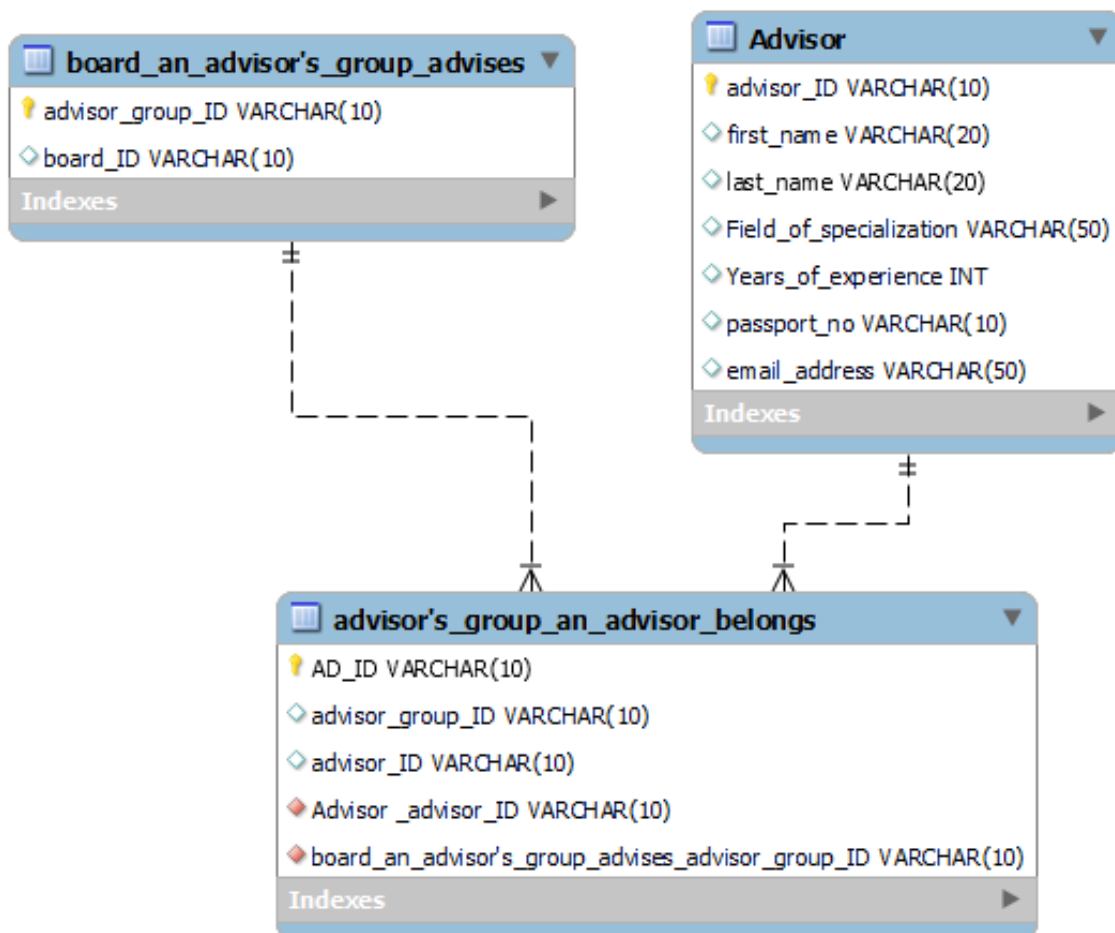
Relation 16:



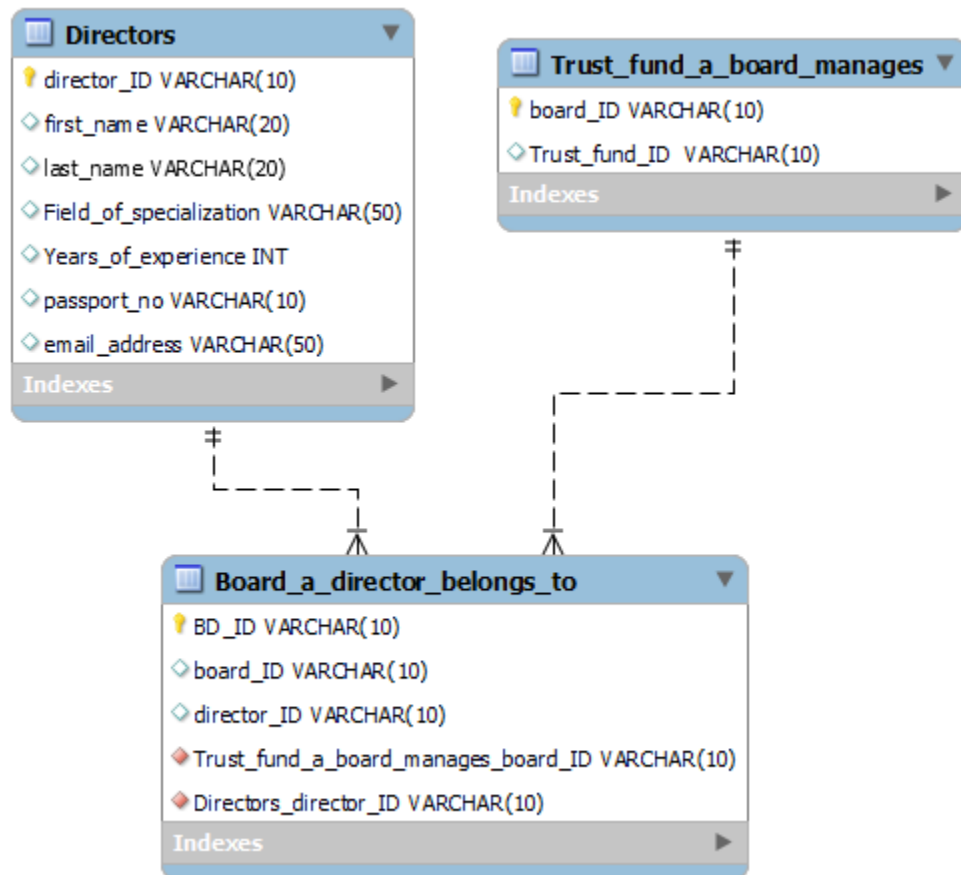
Relation 17:



Relation 18:



Relation 19:



#####

THE SQL CODE ..

You can find a complete version of the sql code here at that [DOC](#)

```
CREATE DATABASE GLOBAL_GREEN_VISA;
USE GLOBAL_GREEN_VISA;
```

```
CREATE TABLE `GGV_visa_holders` (
  holder_ID varchar(20) NOT NULL,
  first_name varchar(30),
  last_name varchar(30),
  passport_no varchar(10),
```

```
    passport_expiry datetime(6),  
    email_address varchar(50),  
    PRIMARY KEY (holder_ID)  
);
```

```
CREATE TABLE Participating_Countries (  
    country_ID INT NOT NULL,  
    country_name varchar(20),  
    region varchar(20),  
    G_20_Nation BOOLEAN,  
    PRIMARY KEY (`country_ID`)  
);
```

```
CREATE TABLE Partners (  
    partner_id varchar(10) NOT NULL,  
    organisation_name varchar(20),  
    address varchar(100),  
    years_in_partnership INT,  
    PRIMARY KEY (partner_id)  
);
```

```
CREATE TABLE Participating_countries_partners (  
    PC_ID varchar(10) NOT NULL,  
    partner_id varchar(10),  
    country_ID INT,  
    PRIMARY KEY (PC_ID),  
    CONSTRAINT PC_FK FOREIGN KEY(partner_id) REFERENCES Partners(partner_id),  
    CONSTRAINT PC_FK1 FOREIGN KEY(country_ID) REFERENCES  
Participating_Countries(country_ID)  
);
```

```
CREATE TABLE GGV_fee_for_participant_countries (  
    GGV_fee_ID varchar(10) NOT NULL,  
    Country_ID INT,  
    fee_for_neighbouring INT,  
    fee_for_G20_Nation INT,  
    fee_for_non_G20_Nation INT,  
    PRIMARY KEY (GGV_fee_ID),
```


CONSTRAINT FK FOREIGN KEY(country_ID) REFERENCES
Participating_Countries(country_ID)

);

CREATE TABLE Payment_details (
payment_ID varchar(20) NOT NULL,
GGV_fee_ID varchar(10),
holder_ID varchar(20),
amount_paid INT,
QR_code varchar(100),
preferred_investment Varchar(100),
payment_date datetime(6),
payment_expiry_date datetime(6),
PRIMARY KEY (payment_ID),
CONSTRAINT PD_FK FOREIGN KEY(GGV_fee_ID) REFERENCES
GGV_fee_for_participant_countries(GGV_fee_ID),
CONSTRAINT PD_FK1 FOREIGN KEY(holder_ID) REFERENCES
`GGV_visa_holders` (holder_ID)

);

CREATE TABLE Escrow_account (
escrow_ID varchar(20) NOT NULL,
country_ID INT,
PRIMARY KEY (escrow_ID),
CONSTRAINT EA_FK FOREIGN KEY(country_ID) REFERENCES
Participating_Countries(country_ID)

);

CREATE TABLE Escrow_account_transaction (
transaction_id varchar(20) NOT NULL,
payment_ID varchar(20),
escrow_ID varchar(20),
PRIMARY KEY (transaction_id),
CONSTRAINT ET_FK FOREIGN KEY(escrow_ID) REFERENCES Escrow_account(escrow_ID),
CONSTRAINT ET_FK1 FOREIGN KEY(payment_ID) REFERENCES
Payment_details(payment_ID)

);

```
CREATE TABLE Customer_travel_history (  
    cth_ID varchar(20) NOT NULL,  
    payment_ID varchar(20),  
    arrival_date datetime(6),  
    departure_date datetime(6),  
    PRIMARY KEY (cth_ID),  
    CONSTRAINT CT_FK FOREIGN KEY(payment_ID) REFERENCES  
    Payment_details(payment_ID)  
);
```

```
CREATE TABLE National_manager (  
    manager_ID varchar(5),  
    first_name varchar(30),  
    last_name varchar(30),  
    email_address varchar(50),  
    country_ID INT,  
    PRIMARY KEY (manager_ID),  
    CONSTRAINT NM_FK FOREIGN KEY(country_ID) REFERENCES  
    Participating_Countries(country_ID)
```

);

```
CREATE TABLE trust_fund_country (  
    Trust_fund_ID varchar(10) NOT NULL,  
    country_ID INT,  
    PRIMARY KEY (Trust_fund_ID ),  
    CONSTRAINT TC_FK FOREIGN KEY(country_ID) REFERENCES  
    Participating_Countries(country_ID)
```

);

```
CREATE TABLE Beneficiaries (  
    beneficiary_ID varchar(10) NOT NULL,  
    name_of_beneficiary Varchar(50),  
    beneficiary_type varchar(50),  
    amount_allocated INT,
```

```

purpose Varchar(100),
date_issued datetime(6),
address Varchar(100),
Previous_years_budget INT,
Trust_fund_ID varchar(10),
PRIMARY KEY (beneficiary_ID),
CONSTRAINT BC_FK FOREIGN KEY(Trust_fund_ID ) REFERENCES
trust_fund_country(Trust_fund_ID )
);

```

```

CREATE TABLE Bond (
bond_ID varchar(10),
face_value float(8,2),
maturity_period float(3,2),
start_date datetime(6),
end_date datetime(6),
coupon_rate float(3,2),
country_ID INT,
PRIMARY KEY (bond_ID),
CONSTRAINT B_FK FOREIGN KEY(country_ID) REFERENCES
Participating_Countries(country_ID)
);

```

```

CREATE TABLE Investor_bond_buyer(
investor_ID varchar(10),
organization Varchar(50),
first_name Varchar(20),
last_name Varchar(20),
address Varchar(100),
passport_no varchar(10),
country_of_origin varchar(10),
PRIMARY KEY (investor_ID)
);

```

```

CREATE TABLE Investment_purchase (
investment_ID varchar(10) not null,
amount_received INT,
date_purchased datetime(6),
bond_ID Varchar(100),

```

```

investor_ID varchar(10),
Trust_fund_ID varchar(10),
PRIMARY KEY (investment_ID),
CONSTRAINT IP_FK FOREIGN KEY(bond_ID) REFERENCES Bond(bond_ID),
CONSTRAINT IP_FK1 FOREIGN KEY(investor_ID) REFERENCES
Investor_bond_buyer(investor_ID),
CONSTRAINT IP_FK2 FOREIGN KEY(Trust_fund_ID) REFERENCES
trust_fund_country(Trust_fund_ID)

);

```

```

CREATE TABLE auditors_identification (
  auditor_ID varchar(10) NOT NULL,
  auditor_name Varchar(50),
  PRIMARY KEY (auditor_ID)
);

```

```

CREATE TABLE Auditors_for_country (
  ac_ID varchar(10) NOT NULL,
  conservation_results_report varchar(100),
  country_ID INT,
  auditor_ID varchar(10),
  escrow_ID varchar(20),
  PRIMARY KEY (ac_ID),
  CONSTRAINT AC_FK FOREIGN KEY(country_ID) REFERENCES
Participating_Countries(country_ID),
  CONSTRAINT AC_FK1 FOREIGN KEY(auditor_ID) REFERENCES
auditors_identification(auditor_ID),
  CONSTRAINT AC_FK2 FOREIGN KEY(escrow_ID) REFERENCES Escrow_account(escrow_ID)

);

```

```

CREATE TABLE Directors(
  director_ID varchar(10),
  first_name Varchar(20),
  last_name Varchar(20),
  Field_of_specialization Varchar(50),
  Years_of_experience INT,
  passport_no varchar(10),

```

```
email_address varchar(50),  
PRIMARY KEY (director_ID)  
);
```

```
CREATE TABLE Trust_fund_a_board_manages (  
board_ID varchar(10),  
Trust_fund_ID varchar(10),  
PRIMARY KEY (board_ID),  
CONSTRAINT TM_FK FOREIGN KEY(Trust_fund_ID) REFERENCES  
trust_fund_country(Trust_fund_ID)  
  
);
```

```
CREATE TABLE Board_a_director_belongs_to (  
BD_ID varchar(10),  
board_ID varchar(10),  
director_ID varchar(10),  
PRIMARY KEY (BD_ID),  
CONSTRAINT BD_FK FOREIGN KEY(board_ID) REFERENCES  
Trust_fund_a_board_manages(board_ID),  
CONSTRAINT BD_FK1 FOREIGN KEY(director_ID) REFERENCES Directors(director_ID)  
);
```

```
CREATE TABLE Advisor (  
advisor_ID varchar(10),  
first_name Varchar(20),  
last_name Varchar(20),  
Field_of_specialization Varchar(50),  
Years_of_experience INT,  
passport_no varchar(10),  
email_address varchar(50),  
PRIMARY KEY (advisor_ID)  
);
```

```
CREATE TABLE `board_an_advisor's_group_advises` (  
advisor_group_ID varchar(10),  
board_ID varchar(10),  
PRIMARY KEY (advisor_group_ID),
```

```

CONSTRAINT BA_FK FOREIGN KEY(board_ID) REFERENCES
Trust_fund_a_board_manages(board_ID)
);

```

```

CREATE TABLE `advisor's_group_an_advisor_belongs` (
  AD_ID varchar(10),
  advisor_group_ID varchar(10),
  advisor_ID varchar(10),
  PRIMARY KEY (AD_ID),
  CONSTRAINT AA_FK FOREIGN KEY(advisor_group_ID) REFERENCES
`board_an_advisor's_group_advises` (advisor_group_ID),
  CONSTRAINT AA_FK1 FOREIGN KEY(advisor_ID) REFERENCES Advisor(advisor_ID)
);

```

GENERATED TABLES

Global green visa holders

Result Grid Filter Rows: Export: Wrap Cell Content:						
	Field	Type	Null	Key	Default	Extra
▶	email_address	varchar(50)	YES		NULL	
	first_name	varchar(30)	YES		NULL	
	holder_ID	varchar(20)	NO	PRI	NULL	
	last_name	varchar(30)	YES		NULL	
	passport_expiry	datetime(6)	YES		NULL	
	passport_no	varchar(10)	YES		NULL	

Participating countries

Result Grid Filter Rows: Export: Wrap Cell Content:						
	Field	Type	Null	Key	Default	Extra
▶	country_ID	int	NO	PRI	NULL	
	country_name	varchar(20)	YES		NULL	
	region	varchar(20)	YES		NULL	
	G_20_Nation	tinyint(1)	YES		NULL	

Partners

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

	Field	Type	Null	Key	Default	Extra
▶	partner_id	varchar(10)	NO	PRI	NULL	
	organisation_name	varchar(20)	YES		NULL	
	address	varchar(100)	YES		NULL	
	years_in_partnership	int	YES		NULL	

Participating_countries partners

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

	Field	Type	Null	Key	Default	Extra
▶	PC_ID	varchar(10)	NO	PRI	NULL	
	partner_id	varchar(10)	YES	MUL	NULL	
	country_ID	int	YES	MUL	NULL	

GGV_ fee_for_participant_countries

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

Field	Type	Null	Key	Default	Extra
▶ GGV_fee_ID	varchar(10)	NO	PRI	NULL	
Country_ID	int	YES	MUL	NULL	
fee_for_neighbouring	int	YES		NULL	
fee_for_G20_Nation	int	YES		NULL	
fee_for_non_G20_Nation	int	YES		NULL	

Payment details

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

	Field	Type	Null	Key	Default	Extra
▶	payment_ID	varchar(20)	NO	PRI	NULL	
	GGV_fee_ID	varchar(10)	YES	MUL	NULL	
	holder_ID	varchar(20)	YES	MUL	NULL	
	amount_paid	int	YES		NULL	
	QR_code	varchar(100)	YES		NULL	
	preferred_investment	varchar(100)	YES		NULL	
	payment_date	datetime(6)	YES		NULL	
	payment_expiry_date	datetime(6)	YES		NULL	

Escrow_account

Result Grid Filter Rows: Export: Wrap Cell Content:						
	Field	Type	Null	Key	Default	Extra
▶	escrow_ID	varchar(20)	NO	PRI	NULL	
	country_ID	int	YES	MUL	NULL	

Escrow_account transaction

Result Grid Filter Rows: Export: Wrap Cell Content:						
	Field	Type	Null	Key	Default	Extra
▶	transaction_id	varchar(20)	NO	PRI	NULL	
	payment_ID	varchar(20)	YES	MUL	NULL	
	escrow_ID	varchar(20)	YES	MUL	NULL	

Customer_travel_history

Result Grid Filter Rows: Export: Wrap Cell Content:						
	Field	Type	Null	Key	Default	Extra
▶	cth_ID	varchar(20)	NO	PRI	NULL	
	payment_ID	varchar(20)	YES	MUL	NULL	
	arrival_date	datetime(6)	YES		NULL	
	departure_date	datetime(6)	YES		NULL	

National_manager

Result Grid Filter Rows: Export: Wrap Cell Content:						
	Field	Type	Null	Key	Default	Extra
▶	manager_ID	varchar(5)	NO	PRI	NULL	
	first_name	varchar(30)	YES		NULL	
	last_name	varchar(30)	YES		NULL	
	email_address	varchar(50)	YES		NULL	
	country_ID	int	YES	MUL	NULL	

Beneficiaries

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

	Field	Type	Null	Key	Default	Extra
▶	Trust_fund_ID	varchar(10)	NO	PRI	NULL	
	country_ID	int	YES	MUL	NULL	

Bond

Result Grid

Filter Rows:

Export:

Wrap Cell Content: [↕](#)

	Field	Type	Null	Key	Default	Extra
▶	beneficiary_ID	varchar(10)	NO	PRI	NULL	
	name_of_beneficiary	varchar(50)	YES		NULL	
	beneficiary_type	varchar(50)	YES		NULL	
	amount_allocated	int	YES		NULL	
	purpose	varchar(100)	YES		NULL	
	date_issued	datetime(6)	YES		NULL	
	address	varchar(100)	YES		NULL	
	Previous_years_budget	int	YES		NULL	
	Trust_fund_ID	varchar(10)	YES	MUL	NULL	

Investor_bond_buyer

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

	Field	Type	Null	Key	Default	Extra
▶	bond_ID	varchar(10)	NO	PRI	NULL	
	face_value	float(8,2)	YES		NULL	
	maturity_period	float(3,2)	YES		NULL	
	start_date	datetime(6)	YES		NULL	
	end_date	datetime(6)	YES		NULL	
	coupon_rate	float(3,2)	YES		NULL	
	country_ID	int	YES	MUL	NULL	

Trust_fund_country

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

	Field	Type	Null	Key	Default	Extra
▶	investor_ID	varchar(10)	NO	PRI	NULL	
	organization	varchar(50)	YES		NULL	
	first_name	varchar(20)	YES		NULL	
	last_name	varchar(20)	YES		NULL	
	address	varchar(100)	YES		NULL	
	passport_no	varchar(10)	YES		NULL	
	country_of_origin	varchar(10)	YES		NULL	

Investment_purchase

Result Grid Filter Rows: Export: Wrap Cell Content:						
	Field	Type	Null	Key	Default	Extra
▶	investment_ID	varchar(10)	NO	PRI	NULL	
	amount_received	int	YES		NULL	
	date_purchased	datetime(6)	YES		NULL	
	bond_ID	varchar(100)	YES	MUL	NULL	
	investor_ID	varchar(10)	YES	MUL	NULL	
	Trust_fund_ID	varchar(10)	YES	MUL	NULL	

Auditor_identification

Result Grid Filter Rows: Export: Wrap Cell Content:						
	Field	Type	Null	Key	Default	Extra
▶	auditor_ID	varchar(10)	NO	PRI	NULL	
	auditor_name	varchar(50)	YES		NULL	

Auditor_for_countries

Result Grid Filter Rows: Export: Wrap Cell Content:						
	Field	Type	Null	Key	Default	Extra
▶	ac_ID	varchar(10)	NO	PRI	NULL	
	conservation_results_report	varchar(100)	YES		NULL	
	country_ID	int	YES	MUL	NULL	
	auditor_ID	varchar(10)	YES	MUL	NULL	
	escrow_ID	varchar(20)	YES	MUL	NULL	

Directors

Result Grid Filter Rows: Export: Wrap Cell Content:						
	Field	Type	Null	Key	Default	Extra
▶	director_ID	varchar(10)	NO	PRI	NULL	
	first_name	varchar(20)	YES		NULL	
	last_name	varchar(20)	YES		NULL	
	Field_of_specialization	varchar(50)	YES		NULL	
	Years_of_experience	int	YES		NULL	
	passport_no	varchar(10)	YES		NULL	
	email_address	varchar(50)	YES		NULL	

Trust_a_board_manages

Result Grid Filter Rows: Export: Wrap Cell Content:						
	Field	Type	Null	Key	Default	Extra
▶	board_ID	varchar(10)	NO	PRI	NULL	
	Trust_fund_ID	varchar(10)	YES	MUL	NULL	

Board_a_director_belongs_to

Result Grid Filter Rows: Export: Wrap Cell Content:						
	Field	Type	Null	Key	Default	Extra
▶	BD_ID	varchar(10)	NO	PRI	NULL	
	board_ID	varchar(10)	YES	MUL	NULL	
	director_ID	varchar(10)	YES	MUL	NULL	

Advisor

Result Grid Filter Rows: Export: Wrap Cell Content:						
	Field	Type	Null	Key	Default	Extra
▶	advisor_ID	varchar(10)	NO	PRI	NULL	
	first_name	varchar(20)	YES		NULL	
	last_name	varchar(20)	YES		NULL	
	Field_of_specialization	varchar(50)	YES		NULL	
	Years_of_experience	int	YES		NULL	
	passport_no	varchar(10)	YES		NULL	
	email_address	varchar(50)	YES		NULL	

Board_an_advisor_advises

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

	Field	Type	Null	Key	Default	Extra
▶	advisor_group_ID	varchar(10)	NO	PRI	NULL	
	board_ID	varchar(10)	YES	MUL	NULL	

Advisor's _group _an _advisor_belongs

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

	Field	Type	Null	Key	Default	Extra
▶	AD_ID	varchar(10)	NO	PRI	NULL	
	advisor_group_ID	varchar(10)	YES	MUL	NULL	
	advisor_ID	varchar(10)	YES	MUL	NULL	

Result 13 Result 14 Result 15 Result 16 Result 17 Result 18 Result 19 Result 20 Result 21