AMERICAN INTERNATIONAL UNIVERSITY–BANGLADESH (AIUB)

FACULTY OF SCIENCE AND TECHNOLOGY

INTRODUCTION TO DATABASE

FALL 2021-2022

Section: P

REPORT TOPIC

DONATION MANAGEMENT SYSTEM.

SUPERVISED BY

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AHMED, SAJID	22-46720-1	Normalization
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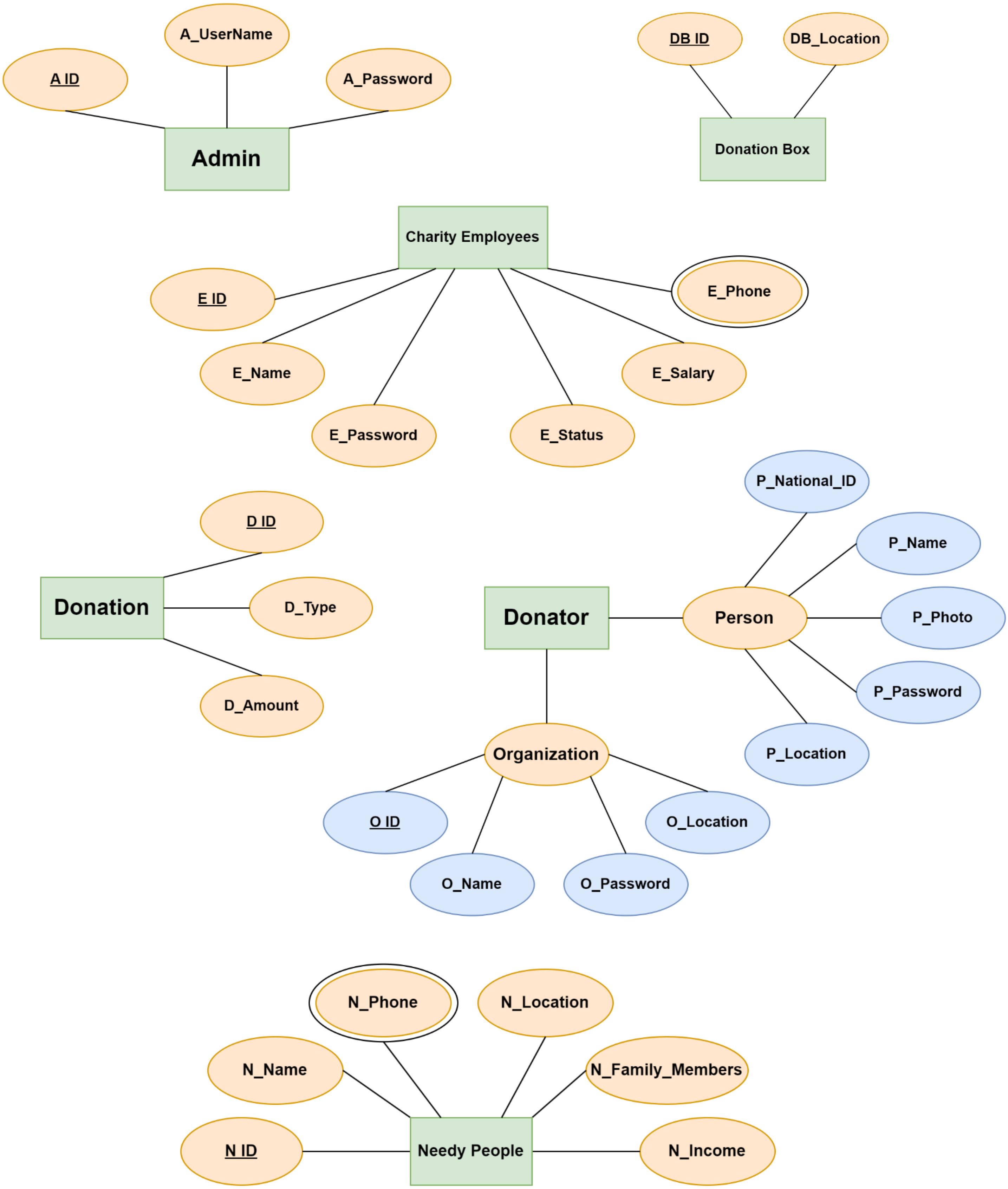
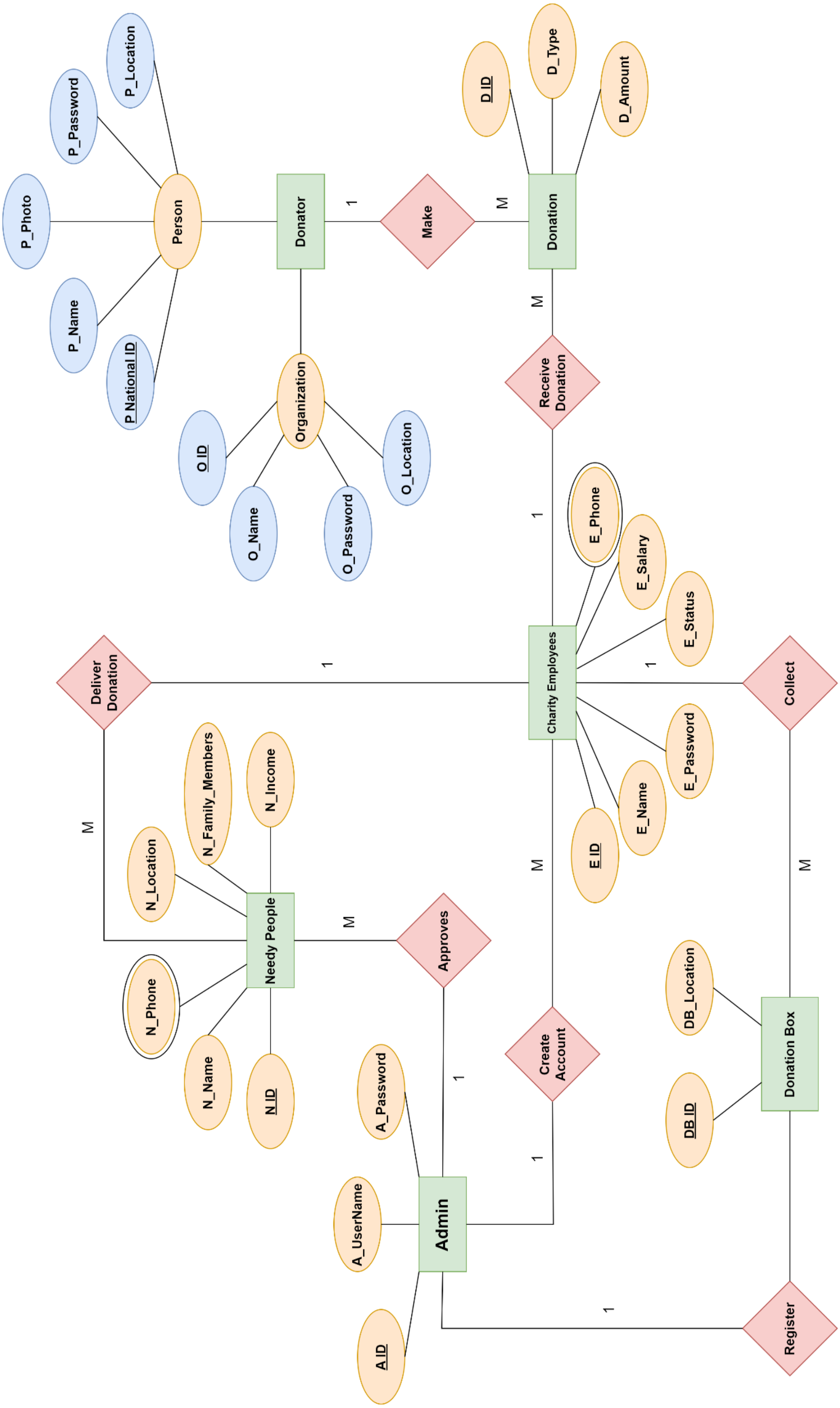
INTRODUCTION

In a **"Donation Management System"**, a donator donates on charity. Donator can be a person or an organization. Charity employees receive donation. A donator has **P_National_ID**, **P_Name**, **P_Photo**, **P_Password**, **P_Location**. A Donor Organization has **O_ID**, **O_Name**, **O_Password**, **O_Location**. Donation has **D_ID, D_Type** and **D_Amount**. Charity employee receives the donation and employees are identified by **E_ID**, **E_Name**, **E_Password**, **E_Status**, **E_Salary**, **E_Phone**. Charity employees are managed by an admin who has attributes of **A_ID**, **A_UserName**, **A_Password**. Admin creates accounts of the employees. Charity employees also collect donation from donation box which has attribute of **DB_ID** and **DB_Location**. Admin is also registered to the donation box. Admin approves needy people for donation. Needy people's attributes are composed of **N_ID**, **N_Name**, **N_Phone**, **N_Location**, **N_Family_Members** and **N_Income**.

ER DIAGRAM


A_UserName
A ID
A_Password
Admin
DB ID
DB_Location
Donation Box
Charity Employees
E ID
E_Phone
E_Name
E_Salary
E_Password
E_Status
P_National_ID
D ID
P_Name
Donation
D_Type
Donator
Person
P_Photo
P_Password
D_Amount
Organization
P_Location
O ID
O_Location
O_Name
O_Password
N_Phone
N_Location
N_Name
N_Family_Members
N ID
Needy People
N_Income


Person
P_Photo
P_Password
P_Location
P_Name
P_National ID
Donator
Organization
O ID
O_Name
O_Password
O_Location
Make
1
M
Donation
D ID
D_Type
D_Amount
M
Receive Donation
1
Charity Employees
E_Phone
E_Salary
E_Status
E_Password
E_Name
E ID
1
Deliver Donation
1
Collect
M
Needy People
N_Location
N_Family_Members
N_Income
N_Phone
N_Name
N ID
M
M
Approves
1
M
Create Account
1
Admin
A_UserName
A_Password
A ID
Donation Box
DB_Location
DB ID
1
Register

NORMALIZATION

1. Receive Donation:

UNF:

1st: D_ID, D_Type, D_Amount, E_ID, E_Name, E_Password, E_Status, E_Salary, E_Phone.

1NF:

1st: D_ID, D_Type, D_Amount, E_ID, E_Name, E_Password, E_Status, E_Salary, E_Phone**.**

(E_Phone is multivalued attribute**).**

2NF:

1st: E_ID, E_Name, E_Password, E_Status, E_Salary, Phone_ID.

2nd: D_ID, D_Type, D_Amount.

3rd: Phone_ID, Phone.

3NF:

1st: E_ID, E_Name, E_Password.

2nd: E_ID, E_Status, E_Salary, Phone_ID.

3rd: D_ID, D_Type, D_Amount.

4th: Phone_ID, Phone.

2. Make:

UNF:

1st: D_ID, D_Type, D_Amount, O_ID, O_Name, O_Password, O_Location, P_National_ID, P_Name, P_Photo, P_Password, P_Location.

1NF:

1st: D_ID, D_Type, D_Amount, O_ID, O_Name, O_Password, O_Location, P_National_ID, P_Name, P_Photo, P_Password, P_Location.
(No multivalued attribute**).**

2NF:

1st: D_ID, D_Type, D_Amount.
2nd: O_ID, O_Name, O_Password, O_Location.
3rd: P_National_ID, P_Name, P_Photo, P_Password, P_Location.
4th: D_ID, O_ID, P_National_ID.

3NF:

1st: D_ID, D_Type, D_Amount.
2nd: O_ID, O_Name, O_Password.
3rd: O_ID, O_Location.
4th: P_National_ID, P_Name, P_Password.
5th: P_National_ID, P_Photo, P_Location.
6th: D_ID, O_ID, P_National_ID.

3. Create Account:

UNF:

1st: E_ID, E_Name, E_Password, E_Status, E_Salary, E_phone, A_ID, A_UserName, A_Password.

1NF:

1st: E_ID, E_Name, E_Password, E_Status, E_Salary, E_phone, A_ID, A_UserName, A_Password.

(E_phone is multivalued attribute**).**

2NF:

1st: A_ID, A_UserName, A_Password.
2nd: E_ID, E_Name, E_Password, E_Status, E_Salary, Phone_ID.
3rd: Phone_ID, Phone.

3NF:

1st: A_ID, A_UserName, A_Password.
2nd: E_ID, E_Name, E_Password.
3rd: E_ID, E_Status, E_Salary, Phone_ID.
4th: Phone_ID, Phone.

4. Register:

UNF:

1st: A_ID, A_UserName, A_Password, DB_ID, DB_Location.

1NF:

1st: A_ID, A_UserName, A_Password, DB_ID, DB_Location.

(No multivalued attribute**).**

2NF:

1st: A_ID, A_UserName, A_Password.

2nd: DB_ID, DB_Location.

3NF:

1st: A_ID, A_UserName, A_Password.

2nd: DB_ID, DB_Location.

5. Collect:

UNF:

1st: E_ID, E_Name, E_Password, E_Status, E_Salary, E_Phone, DB_ID, DB_Location.

1NF:

1st: E_ID, E_Name, E_Password, E_Status, E_Salary, E_Phone, DB_ID, DB_Location. **(**E_phone is multivalued attribute**).**

2NF:

1st: E_ID, E_Name, E_Password.
2nd: E_ID, E_Status, E_Salary, Phone_ID
3rd: DB_ID, DB_Location.
4th: Phone_ID, Phone.

3NF:

1st: E_ID, E_Name, E_Password.
2nd: E_ID, E_Status, E_Salary, Phone_ID
3rd: DB_ID, DB_Location.
4th: Phone_ID, Phone.

6. Deliver Donation:

UNF:

1st: N_ID, N_Name, N_phone, N_Location, N_Family_Members, N_Income, E_ID, E_Name, E_Password, E_Status, E_Salary, E_Phone.

1NF:

1st: N_ID, N_Name, N_Phone, N_Location, N_Family_Members, N_Income, E_ID, E_Name, E_Password, E_Status, E_Salary, E_Phone.
(N_Phone & E_Phone is multivalued attribute**).**

2NF:

1st: N_ID, N_Name, N_Phone_ID, N_Location, N_Family_Members, N_Income.
2nd: E_ID, E_Name, E_Password, E_Status, E_Salary, Phone_ID.
3rd: Phone_ID, Phone.
4th: N_Phone_ID, N_Phone.

3NF:

1st: N_ID, N_Name, N_Phone_ID.
2nd: N_ID, N_Location, N_Family_Members, N_Income.
3rd: E_ID, E_Name, E_Password.
4th: E_ID, E_Status, E_Salary, Phone_ID.
5th: Phone_ID, Phone.
6th: N_Phone_ID, N_Phone.

7. Approve:

UNF:

1st: A_ID, A_UserName, A_Password, N National ID, N_Name, N_Phone, N_Location, N_Family Members, N_Income.

1NF:

1st: A_ID, A_UserName, A_Password, N National ID, N_Name, N_Phone, N_Location, N_Family_Members, N_Income. **(**N_Phone is multivalued attribute**).**

2NF:

1st: A_ID, A_UserName, A_Password.
2nd: N_National_ID, N_Name, N_Phone_ID, N_Location, N_Family_Members, N_Income.
3rd: N_Phone_ID, N_Phone.

3NF:

1st: N_ID, N_Name, N_Phone_ID.
2nd: N_ID, N_Location, N_Family_Members, N_Income.
3rd: A_ID, A_UserName, A_Password.
4th: N_Phone_ID, N_Phone.

FINAL TABLE:

01st: E_ID, E_Name, E_Password.

02nd: E_ID, E_Status, E_Salary, Phone_ID.

03rd: Phone_ID, Phone.

04th: A_ID, A_UserName, A_Password.

05th: D_ID, D_Type, D_Amount.

06th: D_ID, O_ID, P_National_ID.

07th: O_ID, O_Name, O_Password.

08th: O_ID, O_Location.

09th: N_ID, N_Name, N_Phone_ID.

10th: N_ID, N_Location, N_Family_Members, N_Income.

11th: N_Phone_ID, N_Phone.

12th: P_National_ID, P_Name, P_Password.

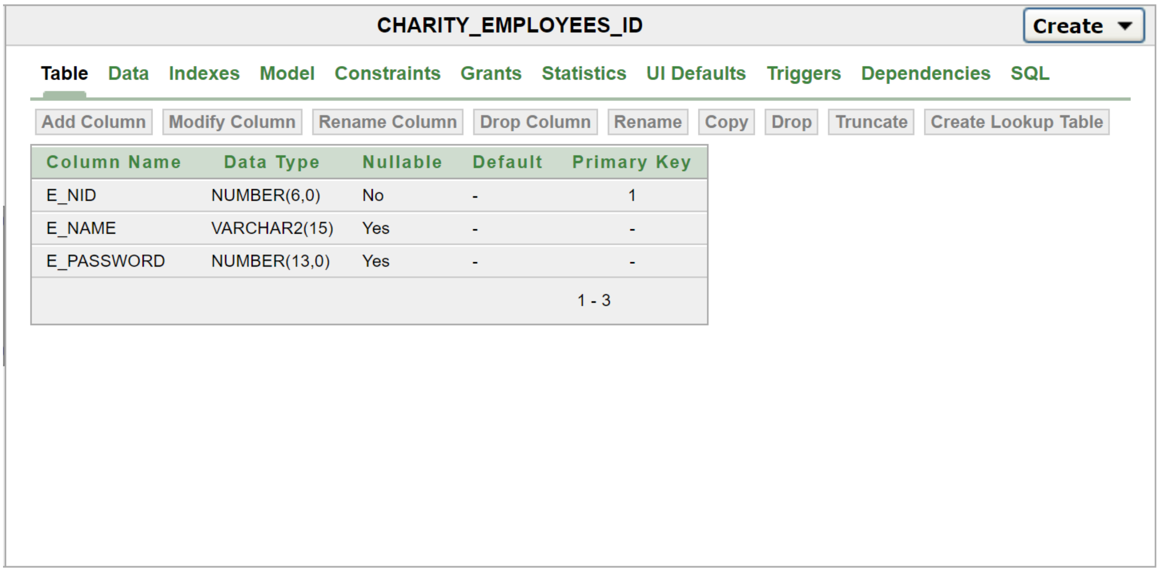
13th: P_National_ID, P_Photo, P_Location.

14th: DB_ID, DB_Location.

CREATE TABLE

1. CHARITY_EMPLOYEES_ID:

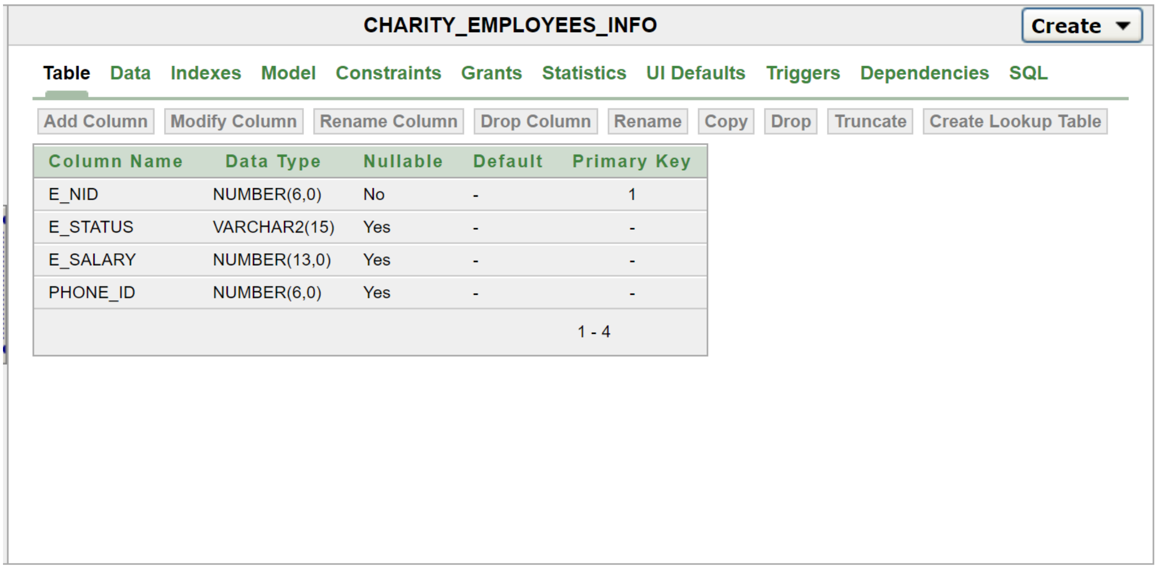
CREATE TABLE CHARITY_EMPLOYEES_ID(E_ID NUMBER(6,0) NOT NULL, E_NAME VARCHAR2(30), E_PASSWORD NUMBER(13,0), CONSTRAINT CHARITY_EMPLOYEES_ID_PK PRIMARY KEY(E_ID));


CHARITY_EMPLOYEES_ID
Create
Table
Data
Indexes
Model
Constraints
Grants
Statistics
UI Defaults
Triggers
Dependencies
SQL
Add Column
Modify Column
Rename Column
Drop Column
Rename
Copy
Drop
Truncate
Create Lookup Table
1 - 3

Column Name	Data Type	Nullable	Default	Primary Key
E_NID	NUMBER(6,0)	No	-	1
E_NAME	VARCHAR2(15)	Yes	-	-
E_PASSWORD	NUMBER(13,0)	Yes	-	-

2. CHARITY_EMPLOYEES_INFO:

CREATE TABLE CHARITY_EMPLOYEES_INFO(E_ID NUMBER(6,0) NOT NULL, E_STATUS VARCHAR2(15), E_SALARY NUMBER(13,0), PHONE_ID NUMBER(6,0), CONSTRAINT CHARITY_EMPLOYEES_INFO_PK PRIMARY KEY(E_ID));


CHARITY_EMPLOYEES_INFO
Create
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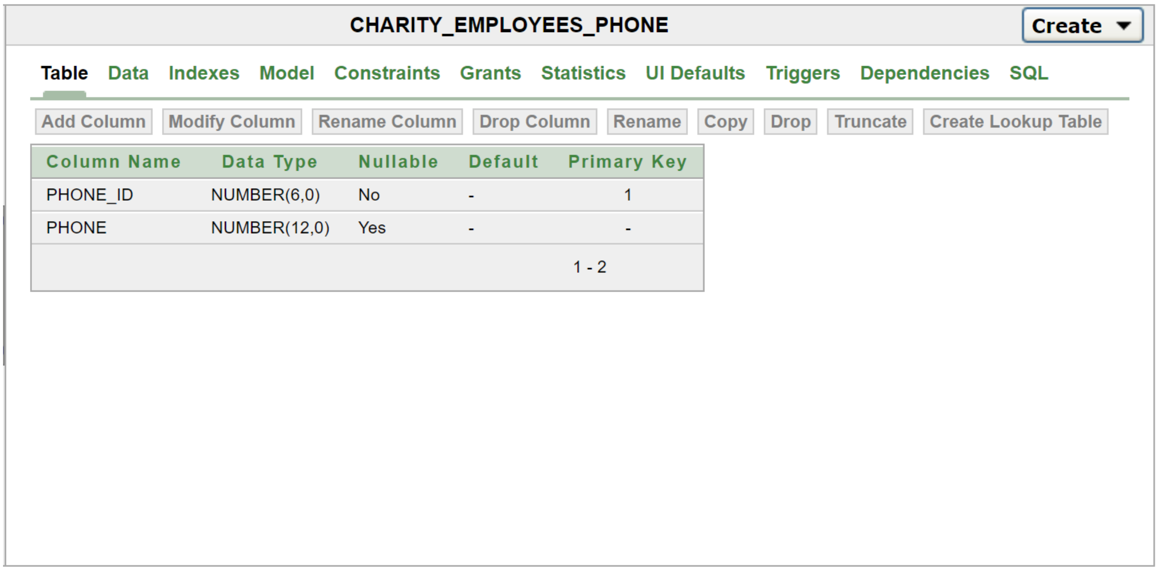
Constraints
Grants
Statistics
UI Defaults
Triggers
Dependencies
SQL
Add Column
Modify Column
Rename Column
Drop Column
Rename
Copy
Drop
Truncate
Create Lookup Table
1 - 4

Column Name	Data Type	Nullable	Default	Primary Key
E_NID	NUMBER(6,0)	No	-	1
E_STATUS	VARCHAR2(15)	Yes	-	-
E_SALARY	NUMBER(13,0)	Yes	-	-
PHONE_ID	NUMBER(6,0)	Yes	-	-

3. CHARITY_EMPLOYEES_PHONE:

CREATE TABLE CHARITY_EMPLOYEES_PHONE (PHONE_ID NUMBER(6,0) NOT NULL, PHONE NUMBER(12,0), CONSTRAINT CHARITY_EMPLOYEES_PHONE_PK PRIMARY KEY(PHONE_ID));


CHARITY_EMPLOYEES_PHONE
Create
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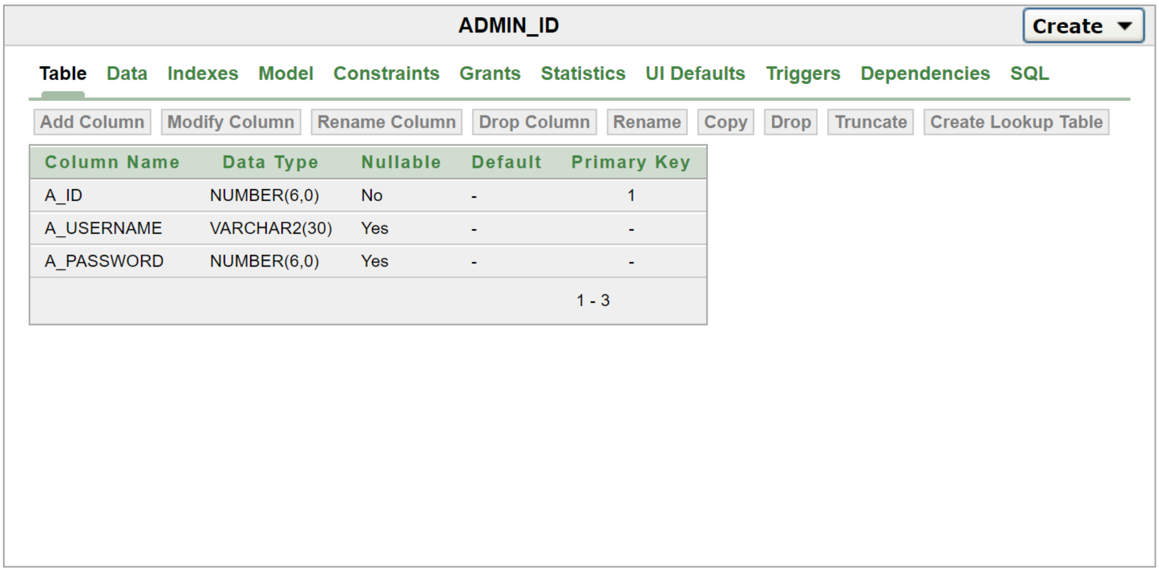
Constraints
Grants
Statistics
UI Defaults
Triggers
Dependencies
SQL
Add Column
Modify Column
Rename Column
Drop Column
Rename
Copy
Drop
Truncate
Create Lookup Table

Column Name	Data Type	Nullable	Default	Primary Key
PHONE_ID	NUMBER(6,0)	No	-	1
PHONE	NUMBER(12,0)	Yes	-	-

1 - 2

4. ADMIN_ID:

CREATE TABLE ADMIN_ID (A_ID NUMBER(6,0) NOT NULL, A_USERNAME VARCHAR2(30), A_PASSWORD NUMBER(6,0), CONSTRAINT ADMIN_ID_PK PRIMARY KEY(A_ID));


ADMIN_ID
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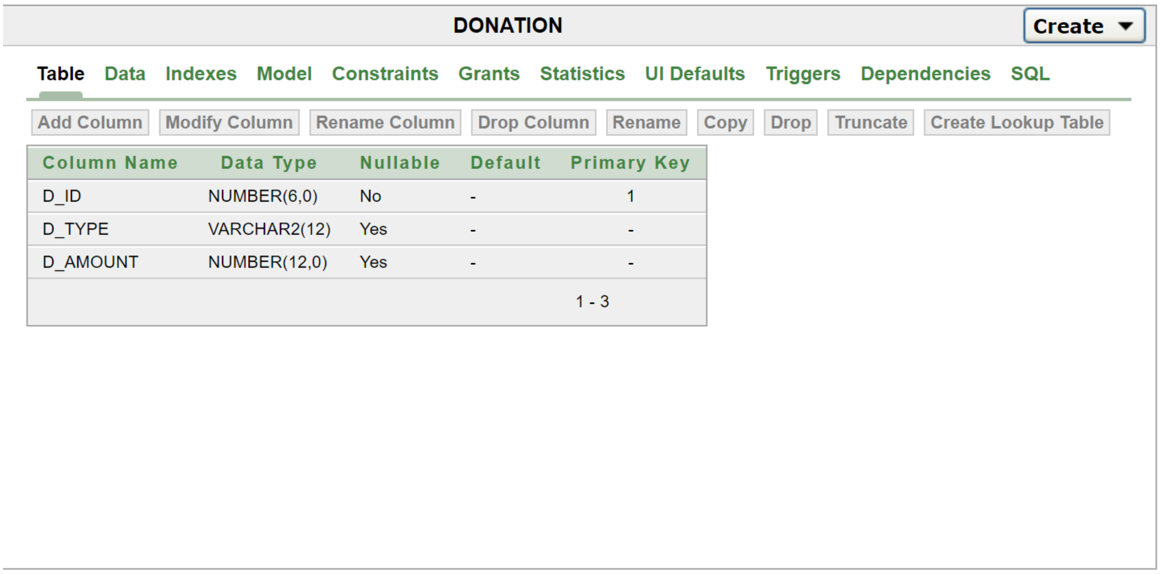
Grants
Statistics
UI Defaults
Triggers
Dependencies
SQL
Add Column
Modify Column
Rename Column
Drop Column
Rename
Copy
Drop
Truncate
Create Lookup Table

Column Name	Data Type	Nullable	Default	Primary Key
A_ID	NUMBER(6,0)	No	-	1
A_USERNAME	VARCHAR2(30)	Yes	-	-
A_PASSWORD	NUMBER(6,0)	Yes	-	-

1 - 3

5. DONATION:

CREATE TABLE DONATION (D_ID NUMBER(6,0) NOT NULL, D_TYPE VARCHAR2(12), D_AMOUNT NUMBER(12,0), CONSTRAINT DONATION_PK PRIMARY KEY(D_ID));


DONATION
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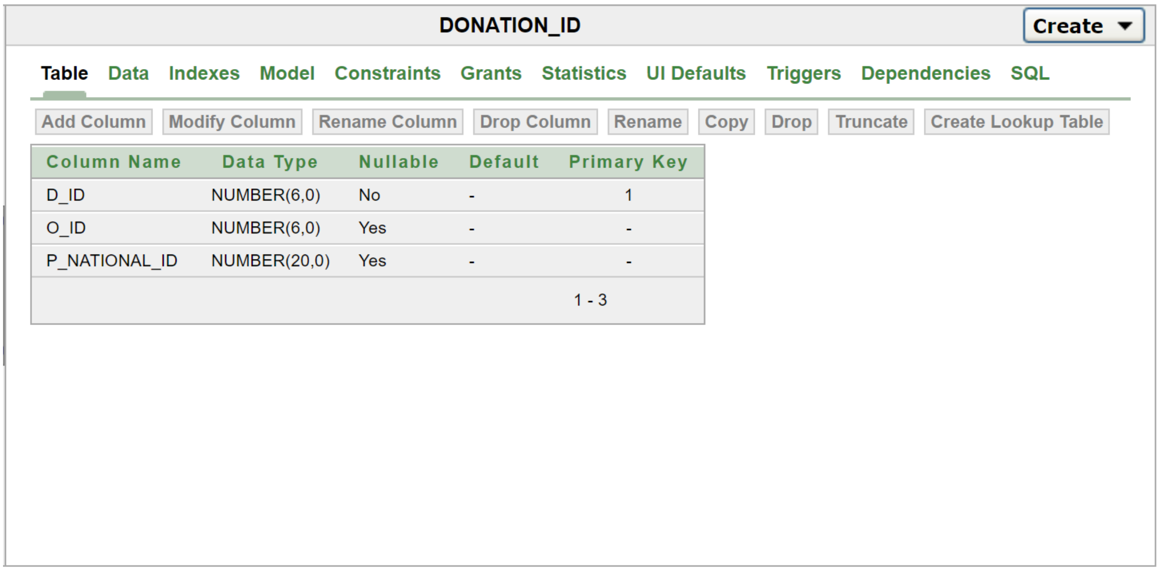
UI Defaults
Triggers
Dependencies
SQL
Add Column
Modify Column
Rename Column
Drop Column
Rename
Copy
Drop
Truncate
Create Lookup Table

Column Name	Data Type	Nullable	Default	Primary Key
D_ID	NUMBER(6,0)	No	-	1
D_TYPE	VARCHAR2(12)	Yes	-	-
D_AMOUNT	NUMBER(12,0)	Yes	-	-

1 - 3

6. DONATION_ID:

CREATE TABLE DONATION_ID (D_ID NUMBER(6,0) NOT NULL, O_ID Number(6,0), P_National_ID NUMBER(20,0), CONSTRAINT DONATION_ID_PK PRIMARY KEY(D_ID));


DONATION_ID
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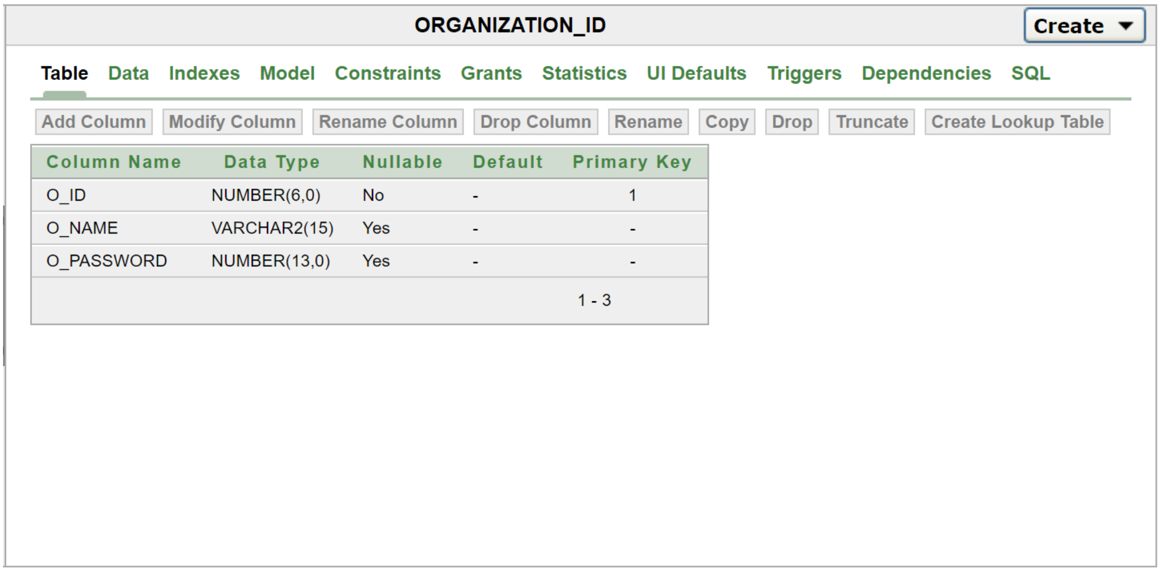
Constraints
Grants
Statistics
UI Defaults
Triggers
Dependencies
SQL
Add Column
Modify Column
Rename Column
Drop Column
Rename
Copy
Drop
Truncate
Create Lookup Table

Column Name	Data Type	Nullable	Default	Primary Key
D_ID	NUMBER(6,0)	No	-	1
O_ID	NUMBER(6,0)	Yes	-	-
P_NATIONAL_ID	NUMBER(20,0)	Yes	-	-

1 - 3

7. ORGANIZATION_ID:

CREATE TABLE ORGANIZATION_ID (O_ID NUMBER(6,0) NOT NULL, O_NAME VARCHAR2(15), O_PASSWORD NUMBER(13,0), CONSTRAINT ORGANIZATION_ID_PK PRIMARY KEY(O_ID));


ORGANIZATION_ID
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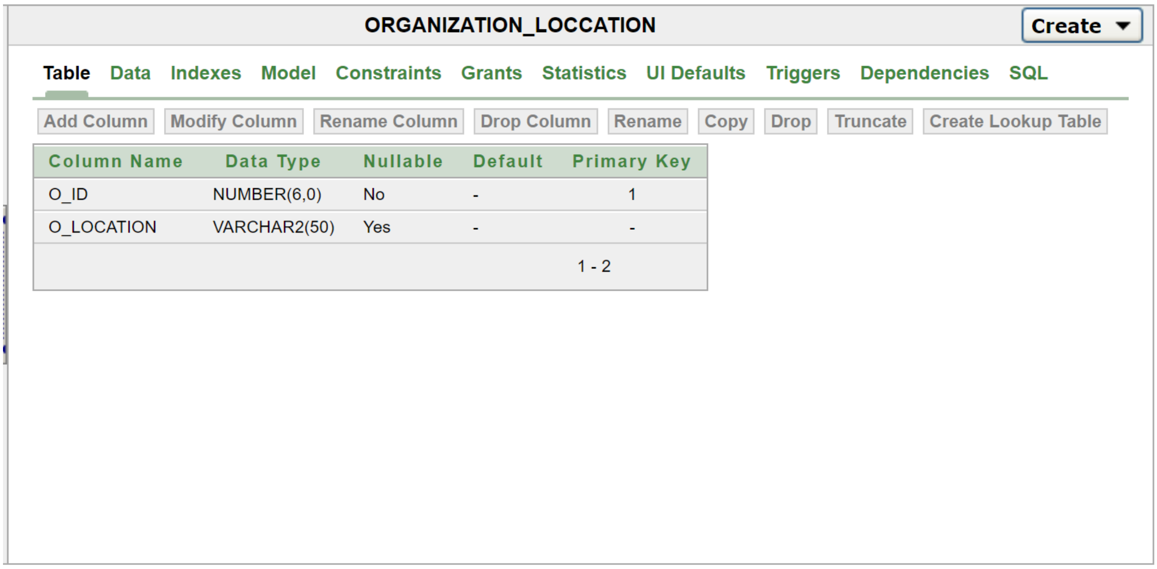
UI Defaults
Triggers
Dependencies
SQL
Add Column
Modify Column
Rename Column
Drop Column
Rename
Copy
Drop
Truncate
Create Lookup Table

Column Name	Data Type	Nullable	Default	Primary Key
O_ID	NUMBER(6,0)	No	-	1
O_NAME	VARCHAR2(15)	Yes	-	-
O_PASSWORD	NUMBER(13,0)	Yes	-	-

1 - 3

8. ORGANIZATION_LOCCATION:

CREATE TABLE ORGANIZATION_LOCCATION (O_ID NUMBER(6,0) NOT NULL, O_LOCATION VARCHAR2(50), CONSTRAINT ORGANIZATION_LOCCATION_PK PRIMARY KEY(O_ID));


ORGANIZATION_LOCCATION
Create
Table
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Indexes
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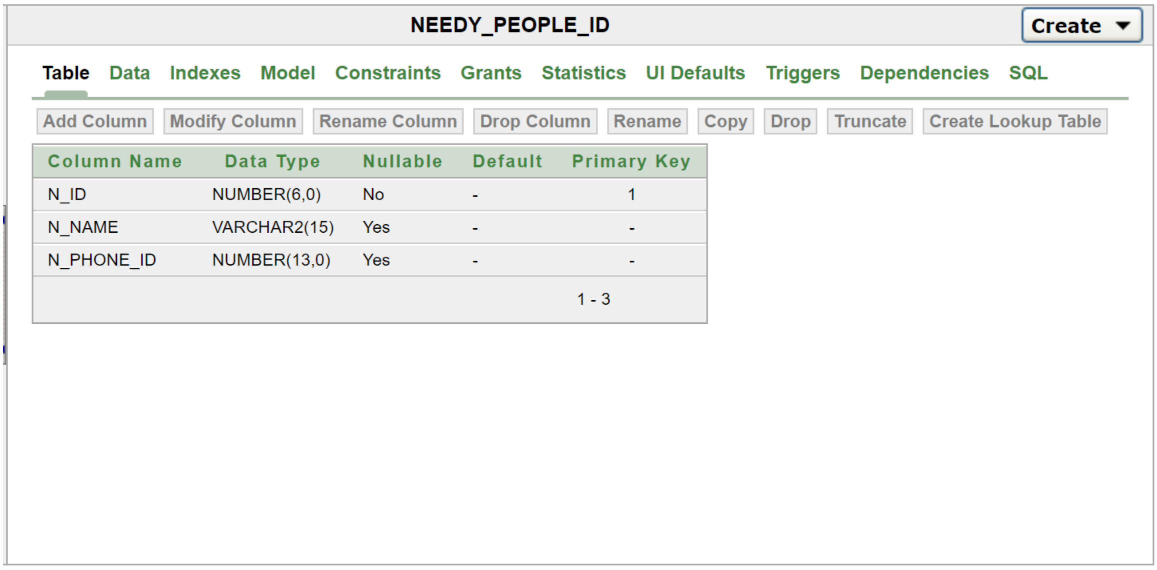
Constraints
Grants
Statistics
UI Defaults
Triggers
Dependencies
SQL
Add Column
Modify Column
Rename Column
Drop Column
Rename
Copy
Drop
Truncate
Create Lookup Table

Column Name	Data Type	Nullable	Default	Primary Key
O_ID	NUMBER(6,0)	No	-	1
O_LOCATION	VARCHAR2(50)	Yes	-	-

1 - 2

9. NEEDY_PEOPLE_ID:

CREATE TABLE NEEDY_PEOPLE_ID (N_ID NUMBER(6,0) NOT NULL, N_NAME VARCHAR2(15), N_PHONE_ID NUMBER(13,0), CONSTRAINT NEEDY_PEOPLE_ID_PK PRIMARY KEY(N_ID));


NEEDY_PEOPLE_ID
Create
Table
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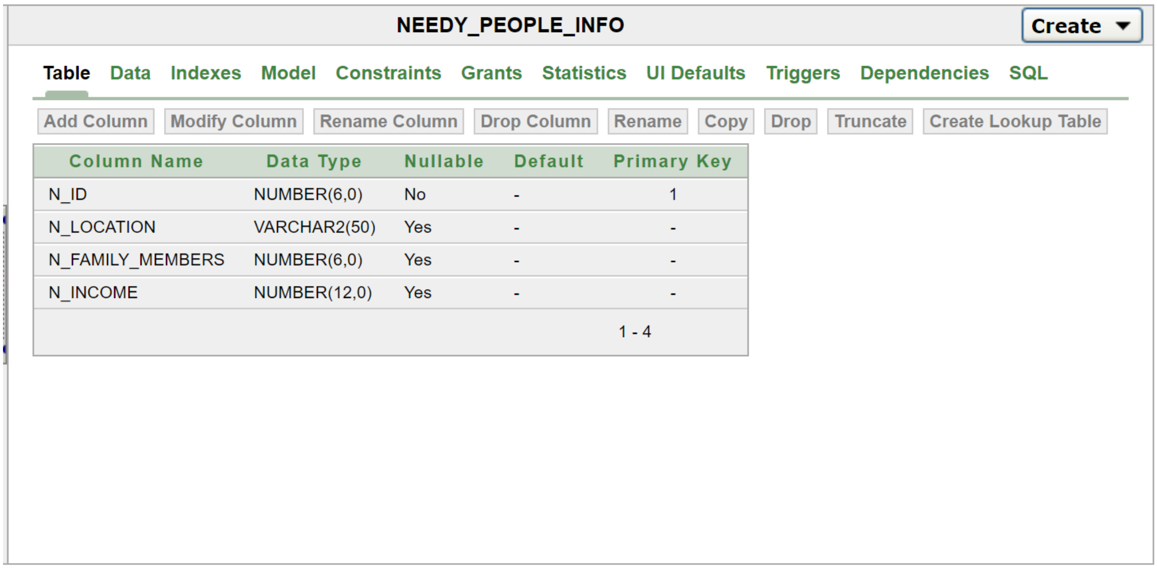
Statistics
UI Defaults
Triggers
Dependencies
SQL
Add Column
Modify Column
Rename Column
Drop Column
Rename
Copy
Drop
Truncate
Create Lookup Table
1 - 3

Column Name	Data Type	Nullable	Default	Primary Key
N_ID	NUMBER(6,0)	No	-	1
N_NAME	VARCHAR2(15)	Yes	-	-
N_PHONE_ID	NUMBER(13,0)	Yes	-	-

10. NEEDY_PEOPLE_INFO:

CREATE TABLE NEEDY_PEOPLE_INFO (N_ID NUMBER(6,0) NOT NULL, N_LOCATION VARCHAR2(50), N_FAMILY_MEMBERS NUMBER(6,0), N_INCOME NUMBER(12,0), CONSTRAINT NEEDY_PEOPLE_INFO_PK PRIMARY KEY(N_ID));


NEEDY_PEOPLE_INFO
Create
Table
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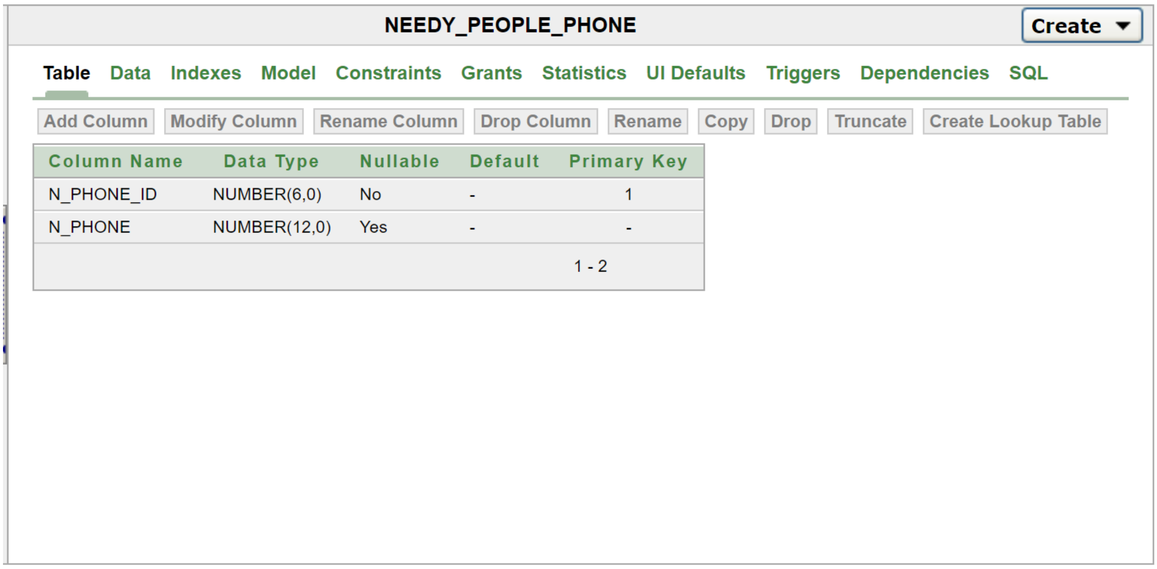
Constraints
Grants
Statistics
UI Defaults
Triggers
Dependencies
SQL
Add Column
Modify Column
Rename Column
Drop Column
Rename
Copy
Drop
Truncate
Create Lookup Table
1 - 4

Column Name	Data Type	Nullable	Default	Primary Key
N_ID	NUMBER(6,0)	No	-	1
N_LOCATION	VARCHAR2(50)	Yes	-	-
N_FAMILY_MEMBERS	NUMBER(6,0)	Yes	-	-
N_INCOME	NUMBER(12,0)	Yes	-	-

11. NEEDY_PEOPLE_PHONE:

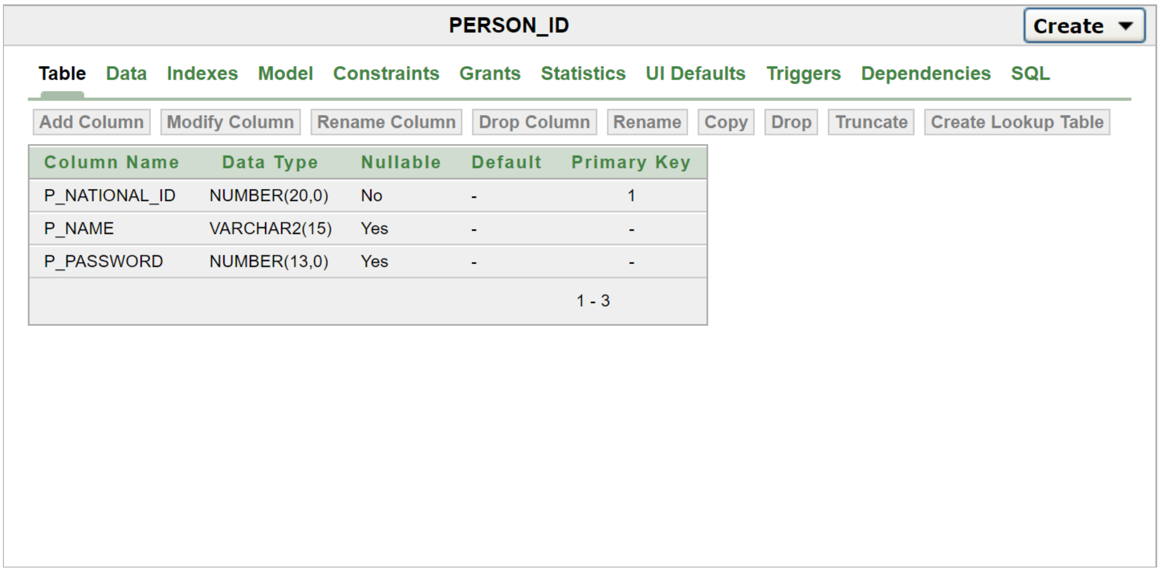
CREATE TABLE NEEDY_PEOPLE_PHONE (N_PHONE_ID NUMBER(6,0) NOT NULL, N_PHONE NUMBER(12,0), CONSTRAINT NEEDY_PEOPLE_PHONE_PK PRIMARY KEY(N_PHONE_ID));


NEEDY_PEOPLE_PHONE
Create
Table
Data
Indexes
Model
Constraints
Grants
Statistics
UI Defaults
Triggers
Dependencies
SQL
Add Column
Modify Column
Rename Column
Drop Column
Rename
Copy
Drop
Truncate
Create Lookup Table
1 - 2

Column Name	Data Type	Nullable	Default	Primary Key
N_PHONE_ID	NUMBER(6,0)	No	-	1
N_PHONE	NUMBER(12,0)	Yes	-	-

12. PERSON_ID:

CREATE TABLE PERSON_ID (P_NATIONAL_ID NUMBER(20,0) NOT NULL, P_NAME VARCHAR2(15), P_PASSWORD NUMBER(13,0), CONSTRAINT PERSON_ID_PK PRIMARY KEY(P_NATIONAL_ID));


PERSON_ID
Create
Table
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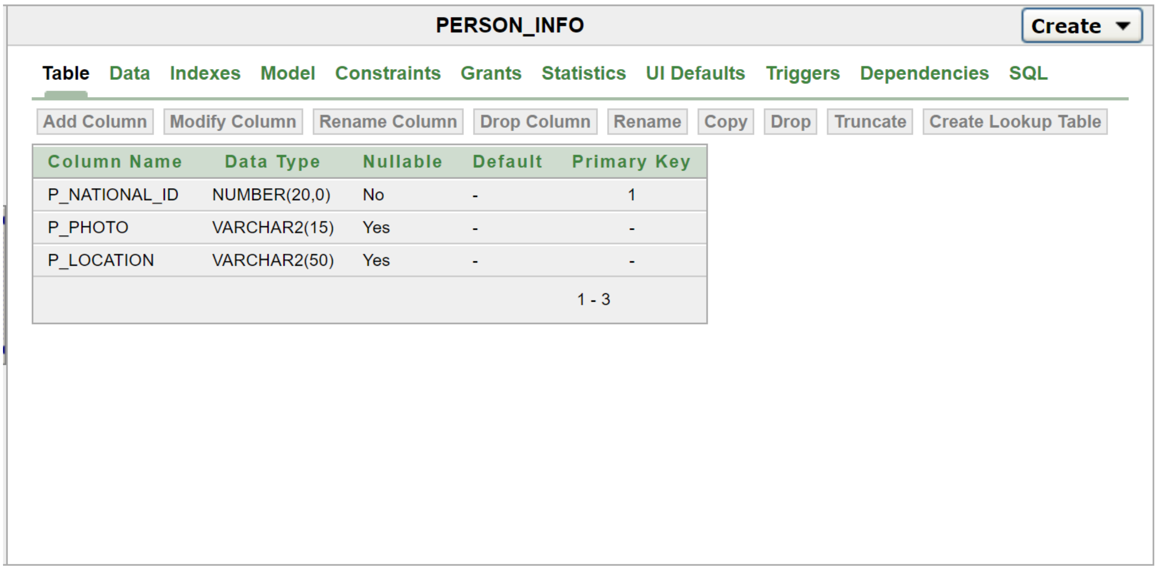
Grants
Statistics
UI Defaults
Triggers
Dependencies
SQL
Add Column
Modify Column
Rename Column
Drop Column
Rename
Copy
Drop
Truncate
Create Lookup Table
1 - 3

Column Name	Data Type	Nullable	Default	Primary Key
P_NATIONAL_ID	NUMBER(20,0)	No	-	1
P_NAME	VARCHAR2(15)	Yes	-	-
P_PASSWORD	NUMBER(13,0)	Yes	-	-

13. PERSON_INFO:

CREATE TABLE PERSON_INFO (P_NATIONAL_ID NUMBER(20,0) NOT NULL, P_PHOTO VARCHAR2(15), P_LOCATION VARCHAR2(50), CONSTRAINT PERSON_INFO_PK PRIMARY KEY(P_NATIONAL_ID));

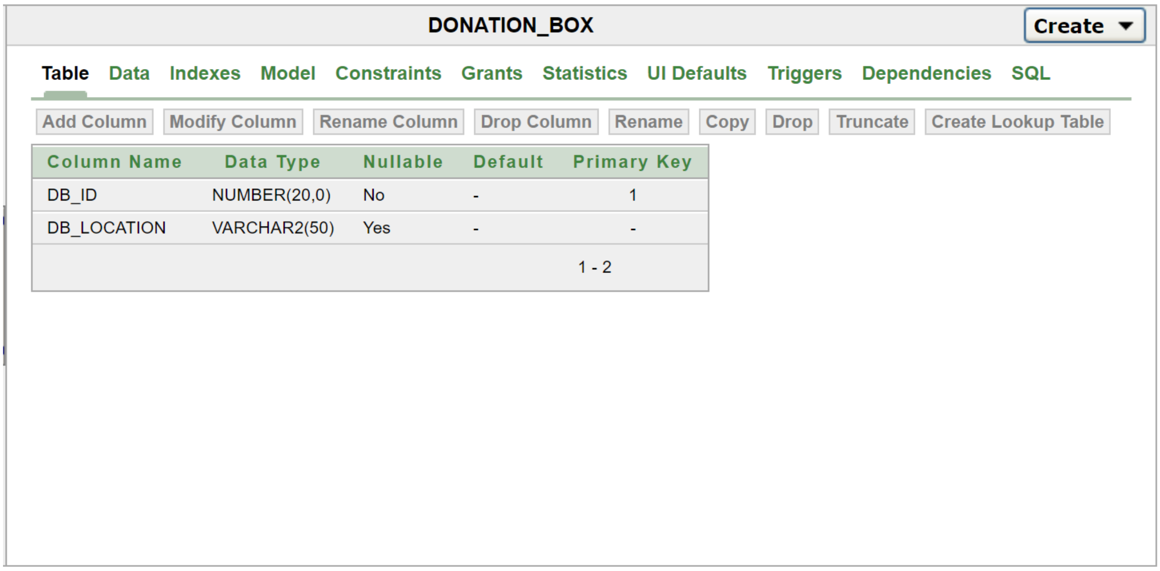

PERSON_INFO
Create
Table
Data
Indexes
Model
Constraints
Grants
Statistics
UI Defaults
Triggers
Dependencies
SQL
Add Column
Modify Column
Rename Column
Drop Column
Rename
Copy
Drop
Truncate
Create Lookup Table

Column Name	Data Type	Nullable	Default	Primary Key
P_NATIONAL_ID	NUMBER(20,0)	No	-	1
P_PHOTO	VARCHAR2(15)	Yes	-	-
P_LOCATION	VARCHAR2(50)	Yes	-	-

1 - 3

14. DONATION_BOX:

CREATE TABLE DONATION_BOX (DB_ID NUMBER(20,0) NOT NULL, DB_LOCATION VARCHAR2(50), CONSTRAINT DONATION_BOX_PK PRIMARY KEY(DB_ID));


DONATION_BOX
Create
Table
Data
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Model
Constraints
Grants
Statistics
UI Defaults
Triggers
Dependencies
SQL
Add Column
Modify Column
Rename Column
Drop Column
Rename
Copy
Drop
Truncate
Create Lookup Table

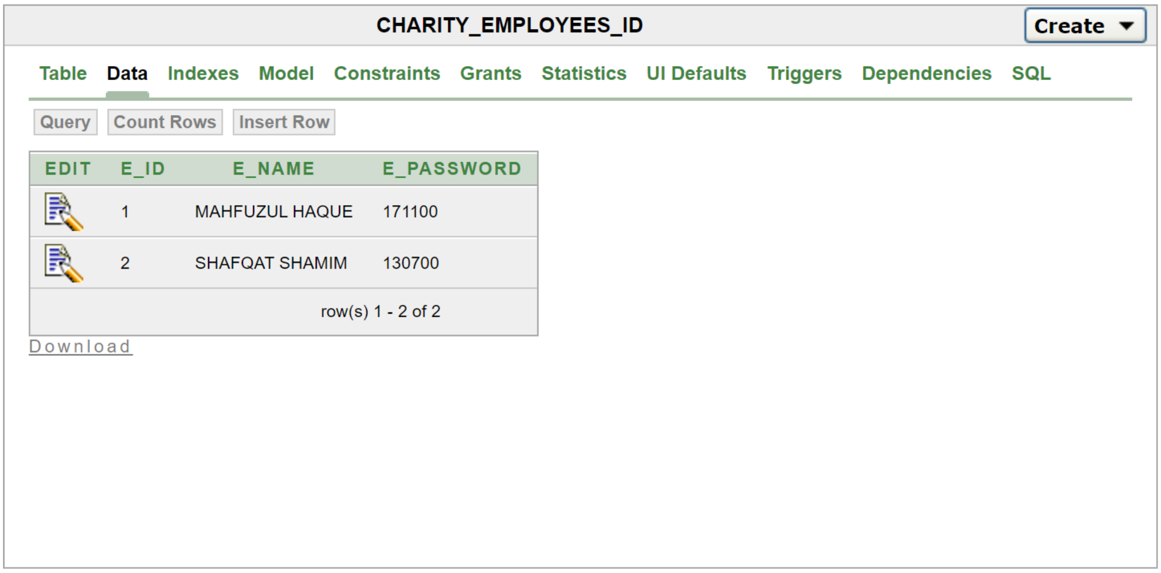
Column Name	Data Type	Nullable	Default	Primary Key
DB_ID	NUMBER(20,0)	No	-	1
DB_LOCATION	VARCHAR2(50)	Yes	-	-

1 - 2

INSERT DATA

1. CHARITY_EMPLOYEES_ID:

Insert into CHARITY_EMPLOYEES_ID values(01, 'MAHFUZUL HAQUE' , 171100);
Insert into CHARITY_EMPLOYEES_ID values(02, 'SHAFQAT SHAMIM' , 130700);

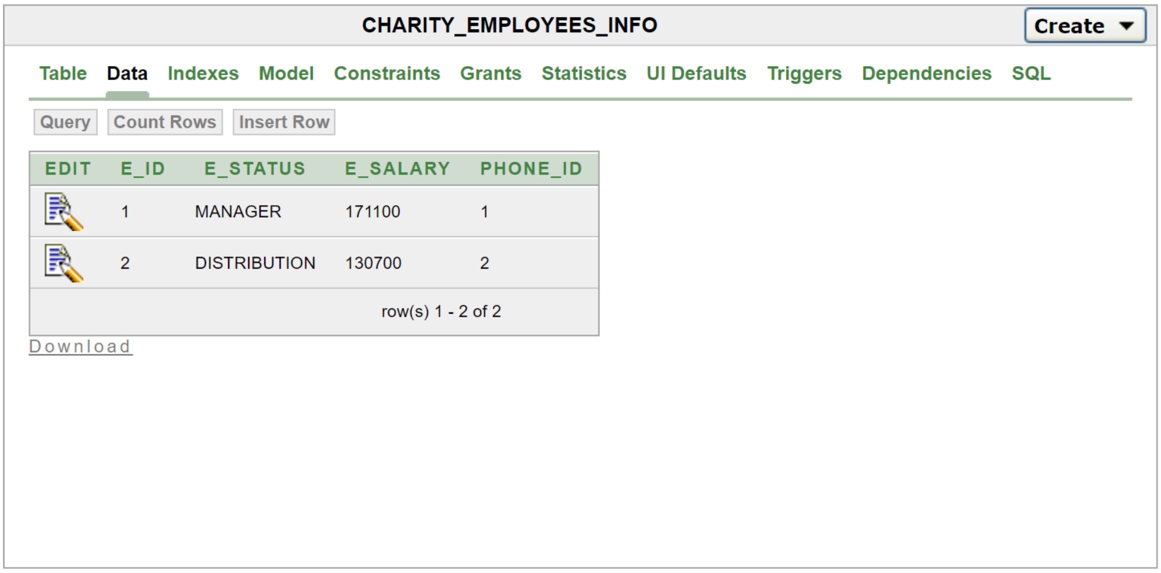

CHARITY_EMPLOYEES_ID
Create
Table
Data
Indexes
Model
Constraints
Grants
Statistics
UI Defaults
Triggers
Dependencies
SQL
Query
Count Rows
Insert Row
Download

EDIT	E_ID	E_NAME	E_PASSWORD
	1	MAHFUZUL HAQUE	171100
	2	SHAFQAT SHAMIM	130700

row(s) 1 - 2 of 2

2. CHARITY_EMPLOYEES_INFO:

Insert into CHARITY_EMPLOYEES_INFO values(1, 'MANAGER' , 171100, 01);
Insert into CHARITY_EMPLOYEES_INFO values(2, 'DISTRIBUTION', 130700, 02);

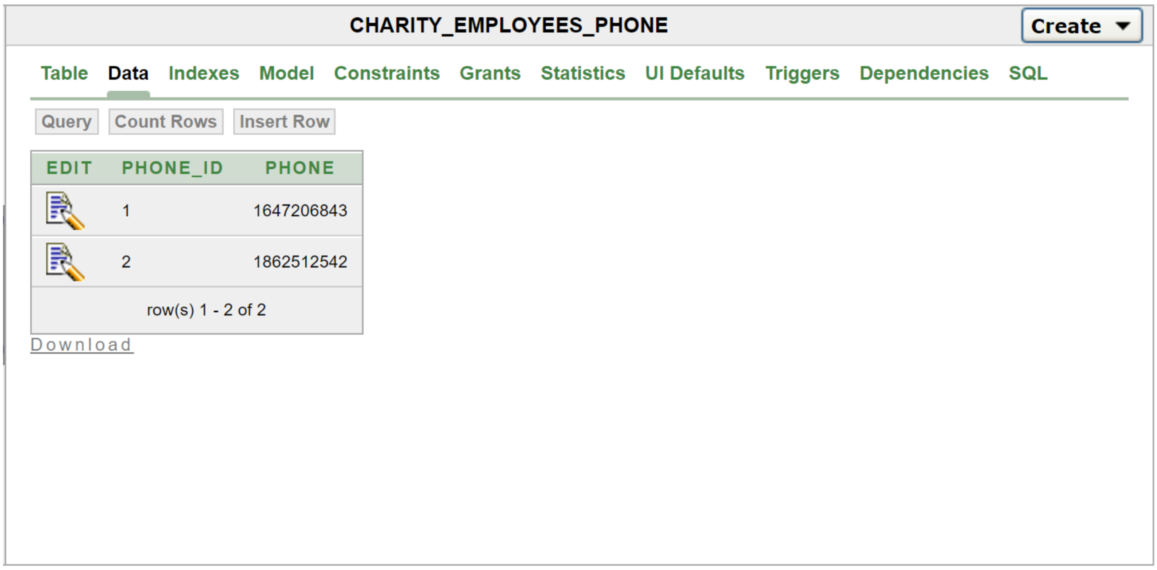

CHARITY_EMPLOYEES_INFO
Create
Table
Data
Indexes
Model
Constraints
Grants
Statistics
UI Defaults
Triggers
Dependencies
SQL
Query
Count Rows
Insert Row
Download

EDIT	E_ID	E_STATUS	E_SALARY	PHONE_ID
	1	MANAGER	171100	1
	2	DISTRIBUTION	130700	2

row(s) 1 - 2 of 2

3. CHARITY_EMPLOYEES_PHONE:

Insert into CHARITY_EMPLOYEES_PHONE values(1, 01647206843);
Insert into CHARITY_EMPLOYEES_PHONE values(2, 01862512542);

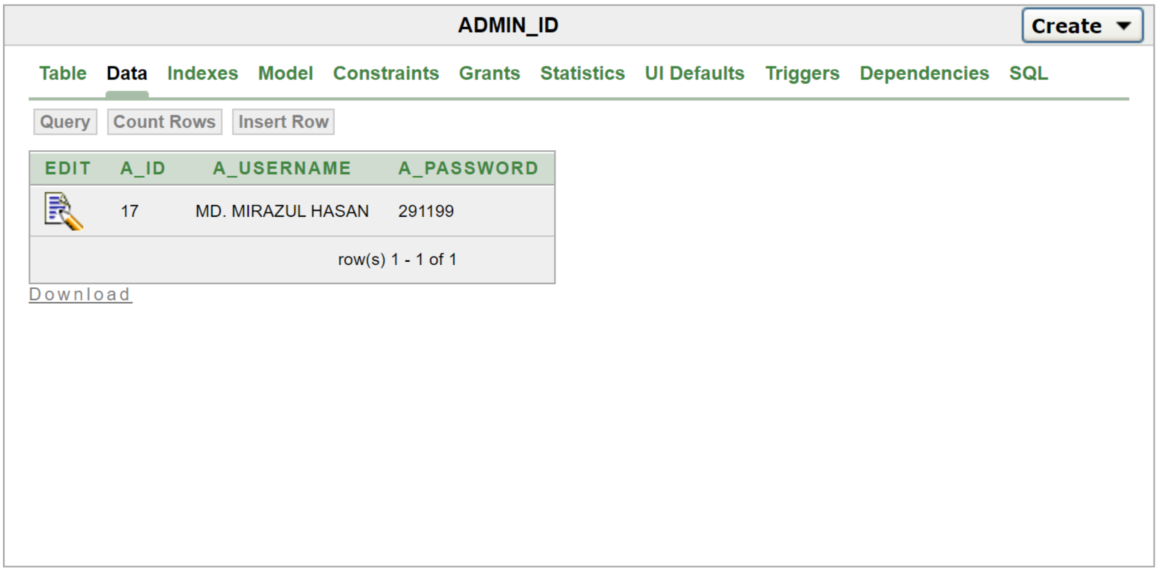

CHARITY_EMPLOYEES_PHONE
Create
Table
Data
Indexes
Model
Constraints
Grants
Statistics
UI Defaults
Triggers
Dependencies
SQL
Query
Count Rows
Insert Row
Download

EDIT	PHONE_ID	PHONE
	1	1647206843
	2	1862512542

row(s) 1 - 2 of 2

4. CHARITY_ADMIN_ID:

Insert into CHARITY_ADMIN_ID values(17, 'MIRAZUL HASAN' , 291199);

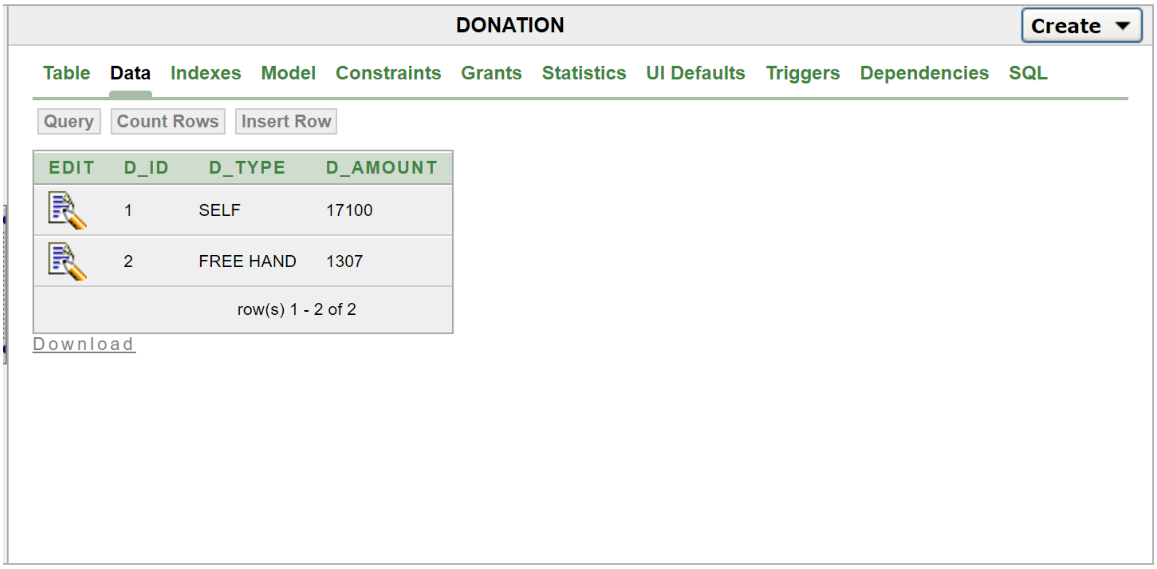

ADMIN_ID
Create
Table
Data
Indexes
Model
Constraints
Grants
Statistics
UI Defaults
Triggers
Dependencies
SQL
Query
Count Rows
Insert Row
Download

EDIT	A_ID	A_USERNAME	A_PASSWORD
	17	MD. MIRAZUL HASAN	291199

row(s) 1 - 1 of 1

5. DONATION:

Insert into DONATION values(1, 'SELF' , 17100);
Insert into DONATION values(2, 'FREE HAND', 1307);



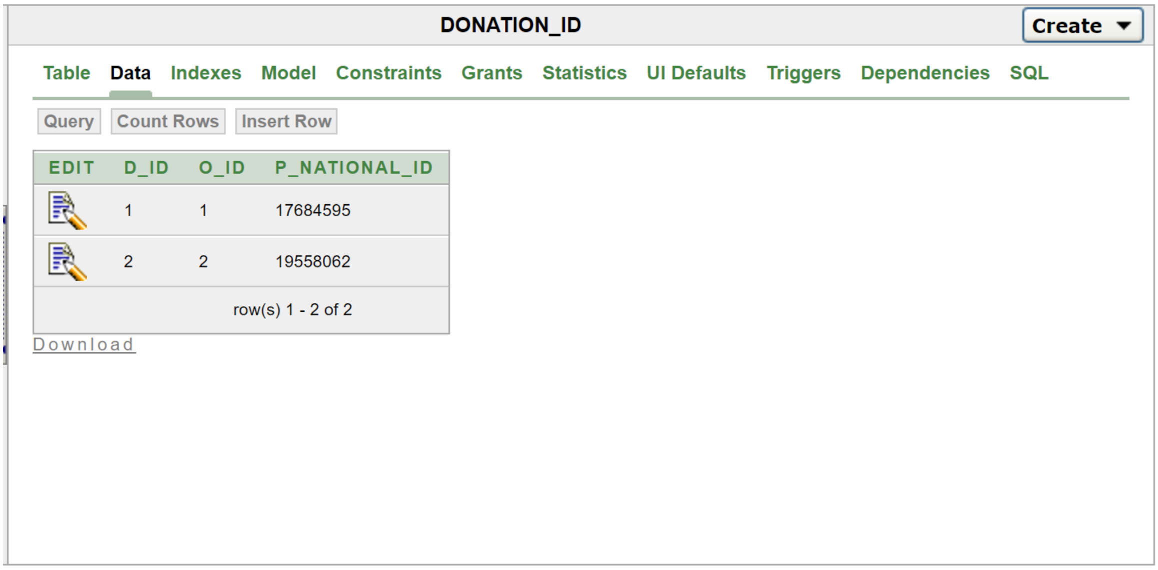
DONATION
Create
Table
Data
Indexes
Model
Constraints
Grants
Statistics
UI Defaults
Triggers
Dependencies
SQL
Query
Count Rows
Insert Row
Download

EDIT	D_ID	D_TYPE	D_AMOUNT
	1	SELF	17100
	2	FREE HAND	1307

row(s) 1 - 2 of 2

6. DONATION_ID:

Insert into DONATION_ID values(1, 1, 17684595);
Insert into DONATION_ID values(2, 2, 19558062);



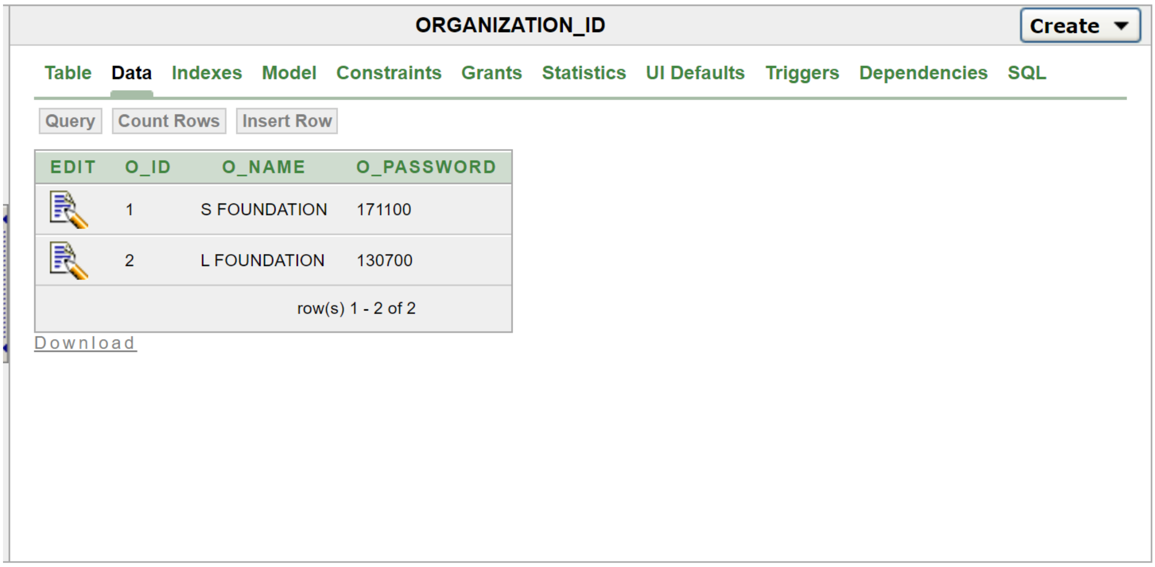
DONATION_ID
Create
Table
Data
Indexes
Model
Constraints
Grants
Statistics
UI Defaults
Triggers
Dependencies
SQL
Query
Count Rows
Insert Row
Download

EDIT	D_ID	O_ID	P_NATIONAL_ID
	1	1	17684595
	2	2	19558062

row(s) 1 - 2 of 2

7. ORGANIZATION_ID:

Insert into ORGANIZATION_ID values(1, 'S FOUNDATION' , 171100);
Insert into ORGANIZATION_ID values(2, 'L FOUNDATION', 130700);

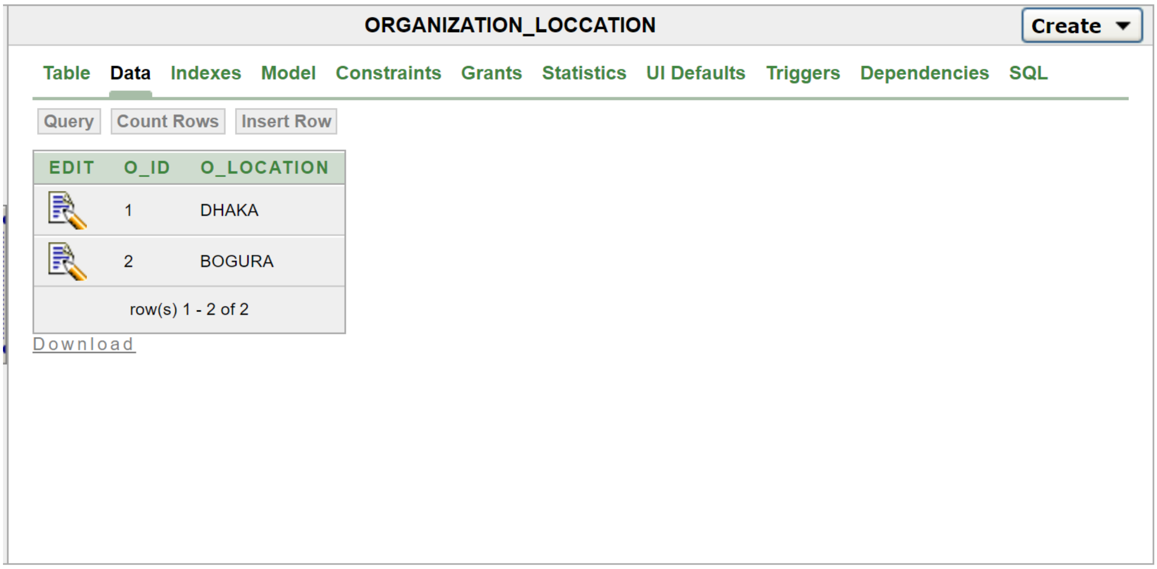

ORGANIZATION_ID
Create
Table
Data
Indexes
Model
Constraints
Grants
Statistics
UI Defaults
Triggers
Dependencies
SQL
Query
Count Rows
Insert Row
Download

EDIT	O_ID	O_NAME	O_PASSWORD
	1	S FOUNDATION	171100
	2	L FOUNDATION	130700

row(s) 1 - 2 of 2

8. ORGANIZATION_LOCCATION:

Insert into ORGANIZATION_LOCCATION values(1, 'DHAKA');
Insert into ORGANIZATION_LOCCATION values(2, 'BOGURA');

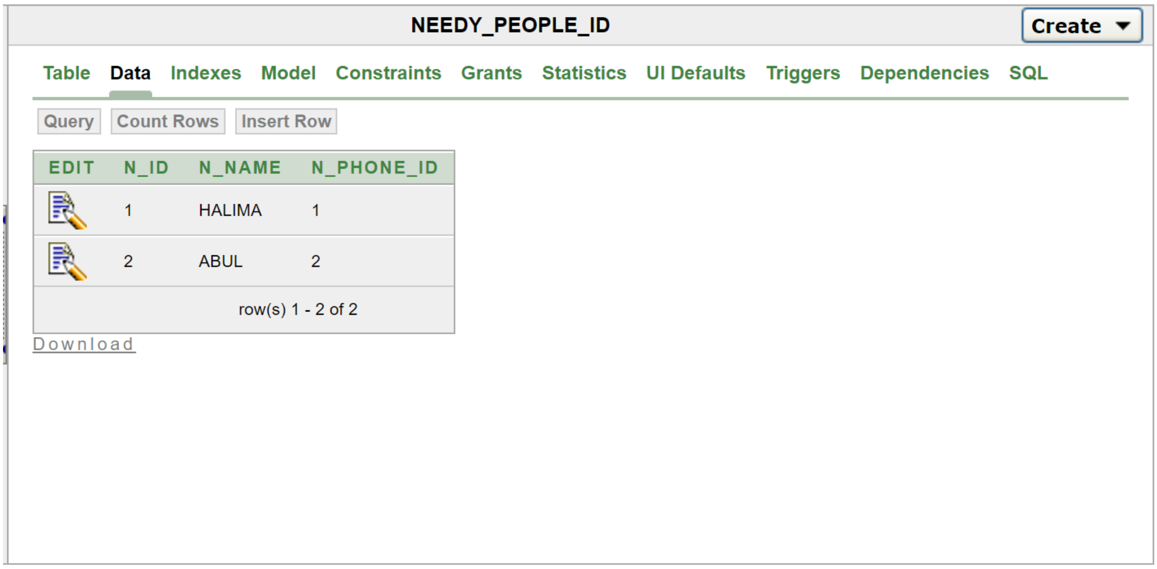

ORGANIZATION_LOCCATION
Create
Table
Data
Indexes
Model
Constraints
Grants
Statistics
UI Defaults
Triggers
Dependencies
SQL
Query
Count Rows
Insert Row
Download

EDIT	O_ID	O_LOCATION
	1	DHAKA
	2	BOGURA

row(s) 1 - 2 of 2

9. NEEDY_PEOPLE_ID:

Insert into NEEDY_PEOPLE_ID values(1, 'HALIMA', 1);
Insert into NEEDY_PEOPLE_ID values(2, 'ABUL', 2);

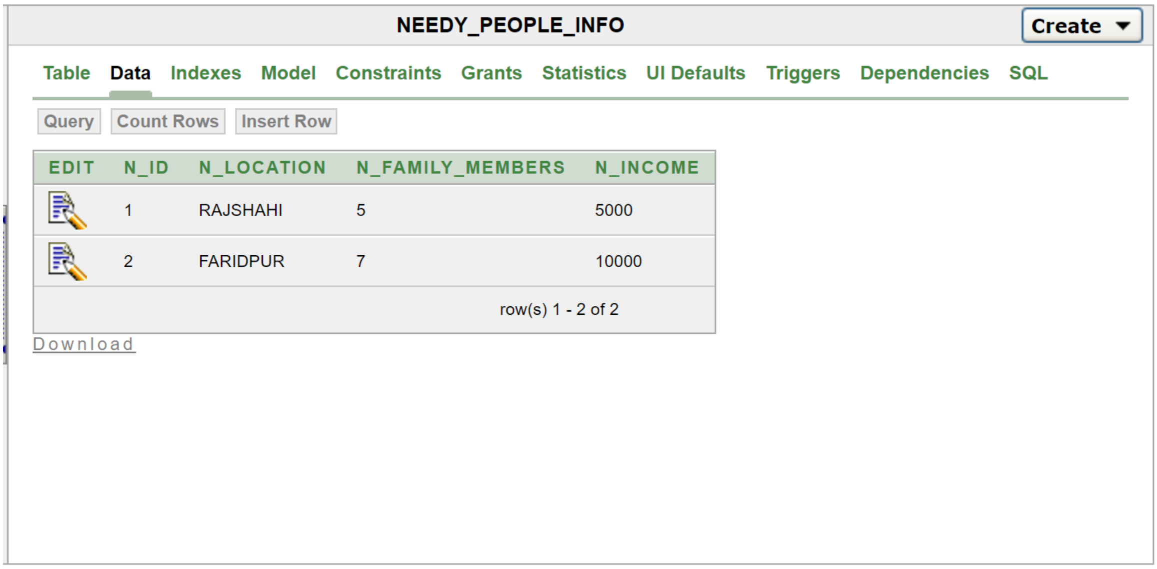

NEEDY_PEOPLE_ID
Create
Table
Data
Indexes
Model
Constraints
Grants
Statistics
UI Defaults
Triggers
Dependencies
SQL
Query
Count Rows
Insert Row
Download

EDIT	N_ID	N_NAME	N_PHONE_ID
	1	HALIMA	1
	2	ABUL	2

row(s) 1 - 2 of 2

10. NEEDY_PEOPLE_INFO:

Insert into NEEDY_PEOPLE_INFO values(1, 'RAJSHAHI', 5, 5000);
Insert into NEEDY_PEOPLE_INFO values(2, 'FARIDPUR', 7, 10000);

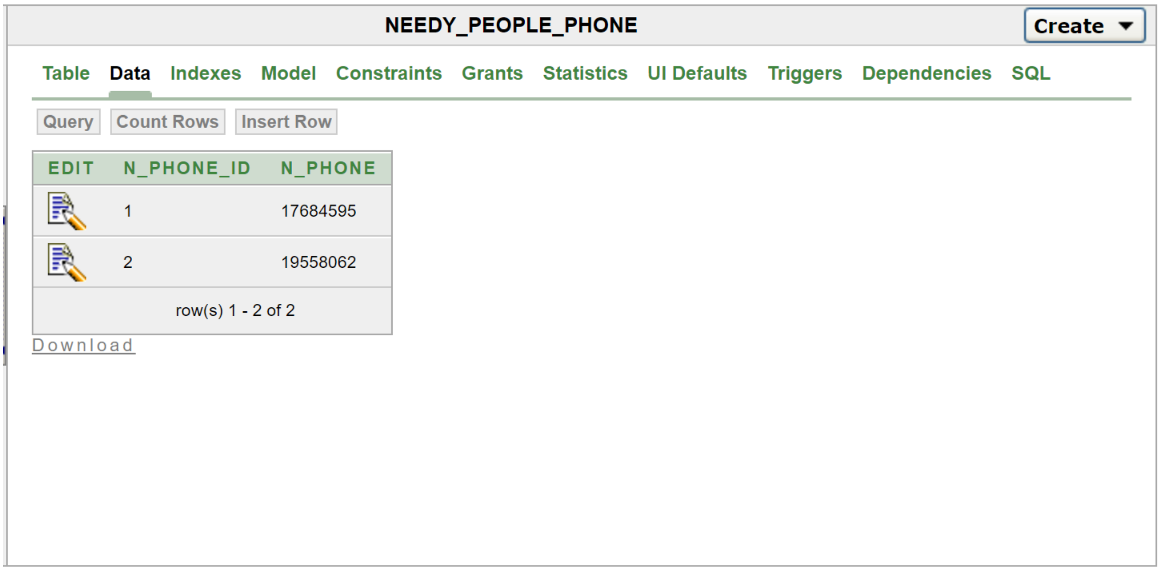

NEEDY_PEOPLE_INFO
Create
Table
Data
Indexes
Model
Constraints
Grants
Statistics
UI Defaults
Triggers
Dependencies
SQL
Query
Count Rows
Insert Row
Download

EDIT	N_ID	N_LOCATION	N_FAMILY_MEMBERS	N_INCOME
	1	RAJSHAHI	5	5000
	2	FARIDPUR	7	10000

row(s) 1 - 2 of 2

11. NEEDY_PEOPLE_PHONE:

```
Insert into NEEDY_PEOPLE_PHONE values(1, 017684595);
Insert into NEEDY_PEOPLE_PHONE values(2, 019558062);
```

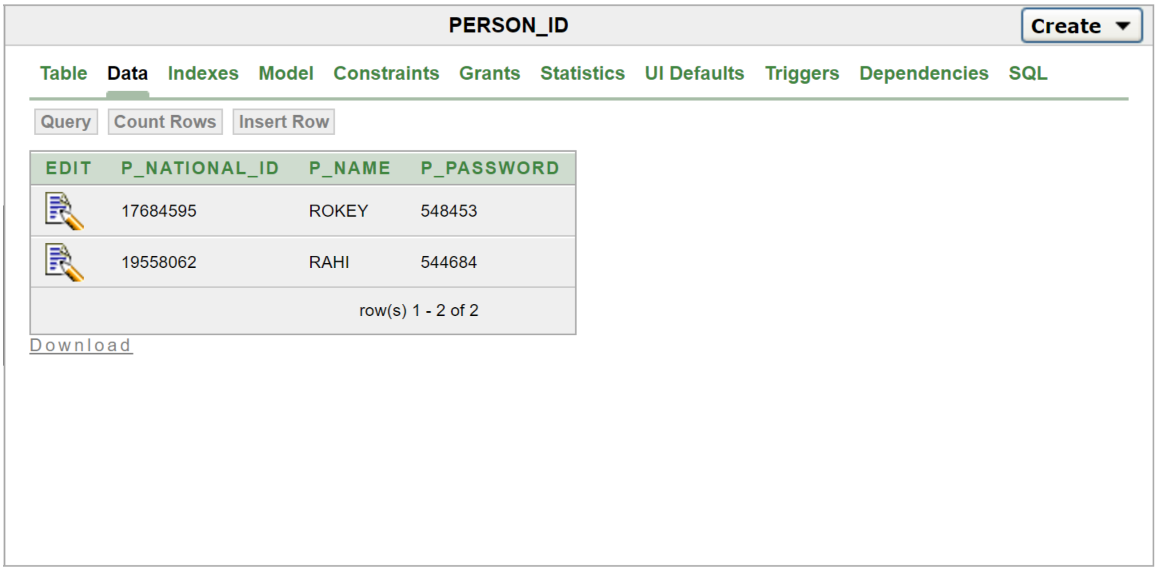

NEEDY_PEOPLE_PHONE
Create
Table
Data
Indexes
Model
Constraints
Grants
Statistics
UI Defaults
Triggers
Dependencies
SQL
Query
Count Rows
Insert Row
Download

EDIT	N_PHONE_ID	N_PHONE
	1	17684595
	2	19558062

row(s) 1 - 2 of 2

12. PERSON_ID:

```
Insert into PERSON_ID values(017684595, 'ROKEY', 548453);
Insert into PERSON_ID values(019558062, 'RAHI', 544684);
```

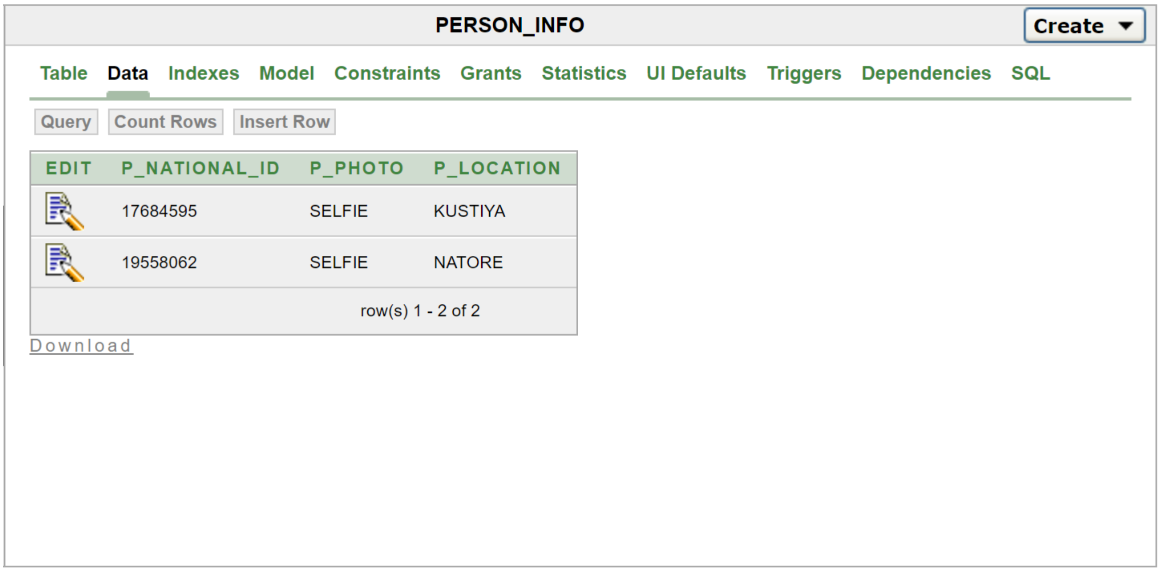

PERSON_ID
Create
Table
Data
Indexes
Model
Constraints
Grants
Statistics
UI Defaults
Triggers
Dependencies
SQL
Query
Count Rows
Insert Row
Download

EDIT	P_NATIONAL_ID	P_NAME	P_PASSWORD
	17684595	ROKEY	548453
	19558062	RAHI	544684

row(s) 1 - 2 of 2

13. PERSON_INFO:

Insert into PERSON_INFO values(17684595, 'SELFIE', 'KUSTIYA');
Insert into PERSON_INFO values(19558062, 'SELFIE', 'NATORE');

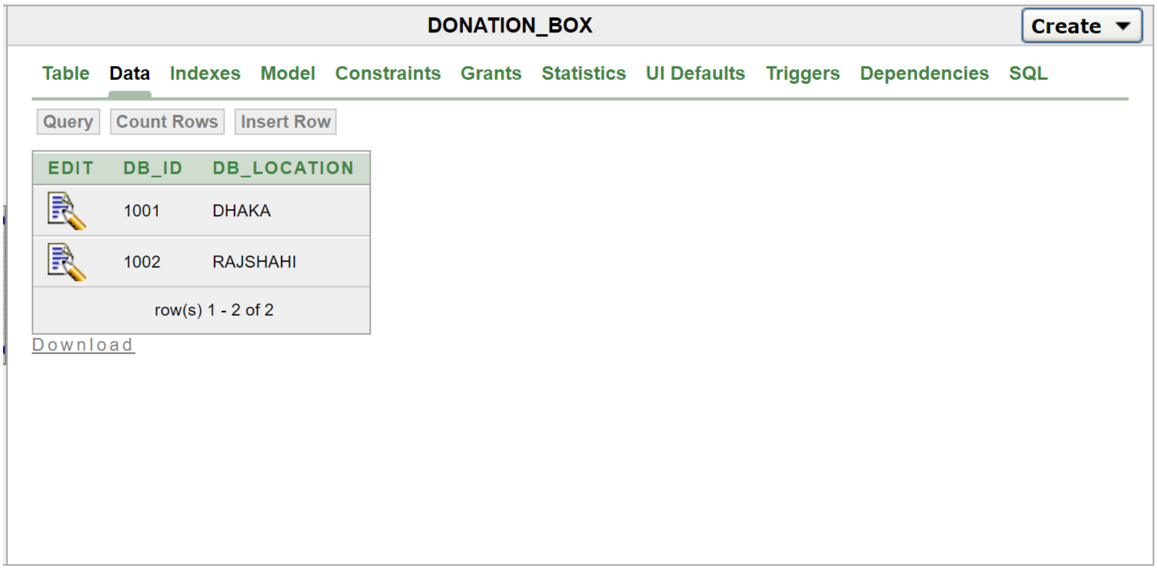

PERSON_INFO
Create
Table
Data
Indexes
Model
Constraints
Grants
Statistics
UI Defaults
Triggers
Dependencies
SQL
Query
Count Rows
Insert Row
Download

EDIT	P_NATIONAL_ID	P_PHOTO	P_LOCATION
	17684595	SELFIE	KUSTIYA
	19558062	SELFIE	NATORE

row(s) 1 - 2 of 2

14. DONATION_BOX:

Insert into DONATION_BOX values(01001, 'DHAKA');
Insert into DONATION_BOX values(01002, 'RAJSHAHI');


DONATION_BOX
Create
Table
Data
Indexes
Model
Constraints
Grants
Statistics
UI Defaults
Triggers
Dependencies
SQL
Query
Count Rows
Insert Row
Download

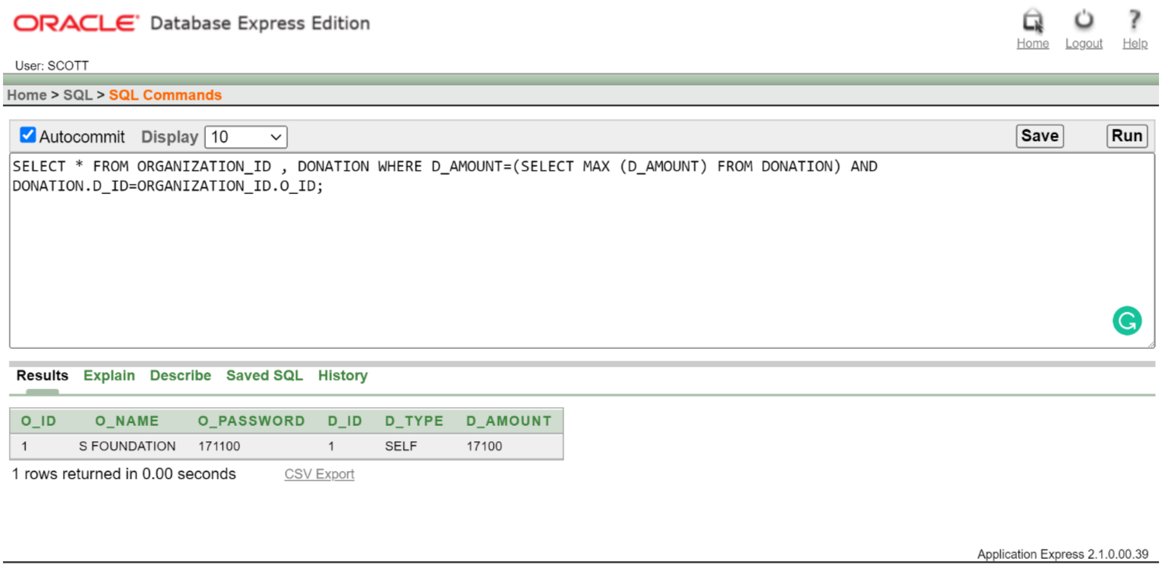
EDIT	DB_ID	DB_LOCATION
	1001	DHAKA
	1002	RAJSHAHI

row(s) 1 - 2 of 2

SUBQUERY

1. Show all details of the maximum Donator Organization.

SELECT * FROM ORGANIZATION_ID , DONATION WHERE D_AMOUNT=(SELECT MAX (D_AMOUNT) FROM DONATION) AND DONATION.D_ID=ORGANIZATION_ID.O_ID;


ORACLE Database Express Edition
Home
Logout
Help
User: SCOTT
Home > SQL > SQL Commands
Autocommit
Display 10
Save
Run
Results
Explain
Describe
Saved SQL
History
CSV Export
Application Express 2.1.0.00.39

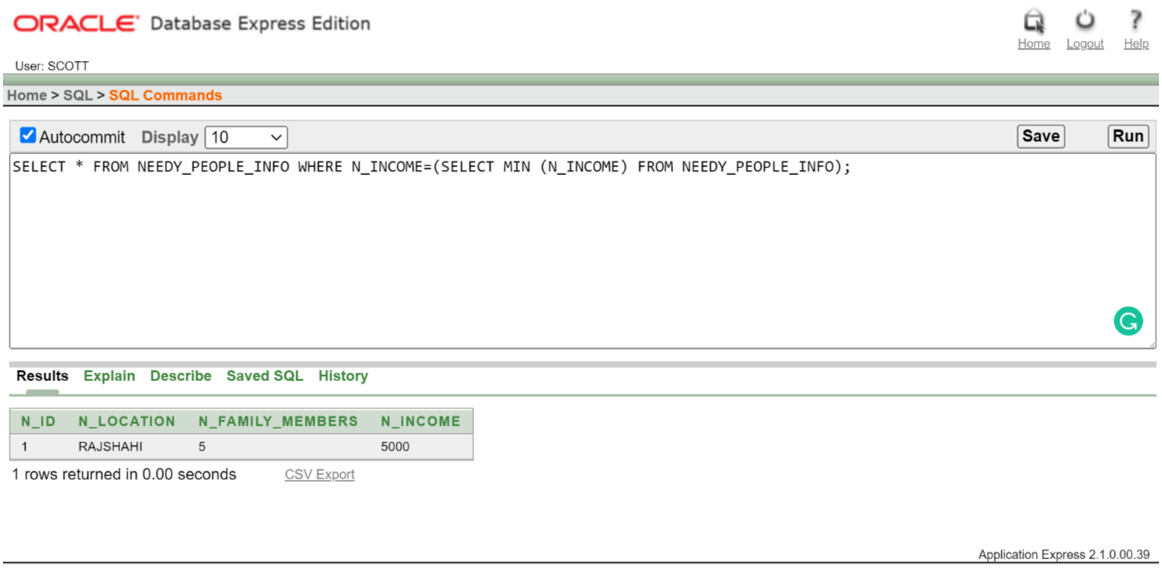
```
SELECT * FROM ORGANIZATION_ID , DONATION WHERE D_AMOUNT=(SELECT MAX (D_AMOUNT) FROM DONATION) AND
DONATION.D_ID=ORGANIZATION_ID.O_ID;
```

O_ID	O_NAME	O_PASSWORD	D_ID	D_TYPE	D_AMOUNT
1	S FOUNDATION	171100	1	SELF	17100

1 rows returned in 0.00 seconds

2. Show all details of the lowest income people in needy people table.

SELECT * FROM NEEDY_PEOPLE_INFO WHERE N_INCOME=(SELECT MIN (N_INCOME) FROM NEEDY_PEOPLE_INFO);


ORACLE Database Express Edition
Home
Logout
Help
User: SCOTT
Home > SQL > SQL Commands
Autocommit
Display 10
Save
Run
Results
Explain
Describe
Saved SQL
History
CSV Export
Application Express 2.1.0.00.39

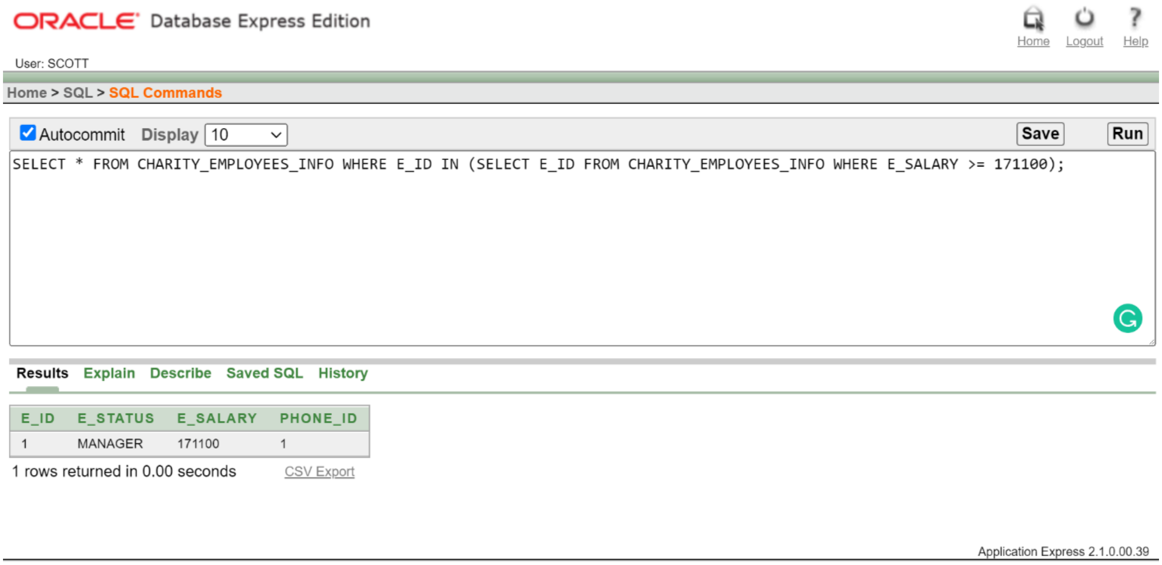
```
SELECT * FROM NEEDY_PEOPLE_INFO WHERE N_INCOME=(SELECT MIN (N_INCOME) FROM NEEDY_PEOPLE_INFO);
```

N_ID	N_LOCATION	N_FAMILY_MEMBERS	N_INCOME
1	RAJSHAHI	5	5000

1 rows returned in 0.00 seconds

3. Display all employee names whose has more or equal than 171100 salaries.

SELECT * FROM CHARITY_EMPLOYEES_INFO WHERE E_ID IN (SELECT E_ID FROM CHARITY_EMPLOYEES_INFO WHERE E_SALARY >= 171100);


ORACLE Database Express Edition
Home
Logout
Help
User: SCOTT
Home > SQL > SQL Commands
☑ Autocommit
Display 10
Save
Run
Results
Explain
Describe
Saved SQL
History
CSV Export
Application Express 2.1.0.00.39

```
SELECT * FROM CHARITY_EMPLOYEES_INFO WHERE E_ID IN (SELECT E_ID FROM CHARITY_EMPLOYEES_INFO WHERE E_SALARY >= 171100);
```

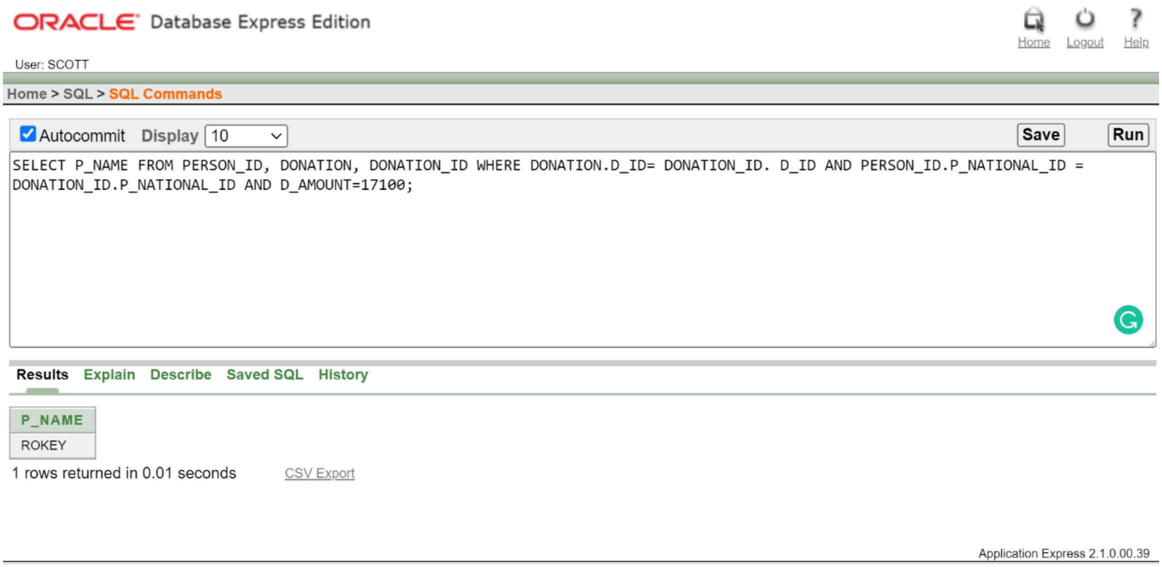
E_ID	E_STATUS	E_SALARY	PHONE_ID
1	MANAGER	171100	1

1 rows returned in 0.00 seconds

JOINING

1. Find out donator name who has donated 17100.

SELECT P_NAME FROM PERSON_ID, DONATION, DONATION_ID WHERE DONATION.D_ID= DONATION_ID. D_ID AND PERSON_ID.P_NATIONAL_ID= DONATION_ID.P_NATIONAL_ID AND D_AMOUNT=17100;


ORACLE Database Express Edition
Home
Logout
Help
User: SCOTT
Home > SQL > SQL Commands
☑ Autocommit
Display 10
Save
Run
Results
Explain
Describe
Saved SQL
History
CSV Export
Application Express 2.1.0.00.39

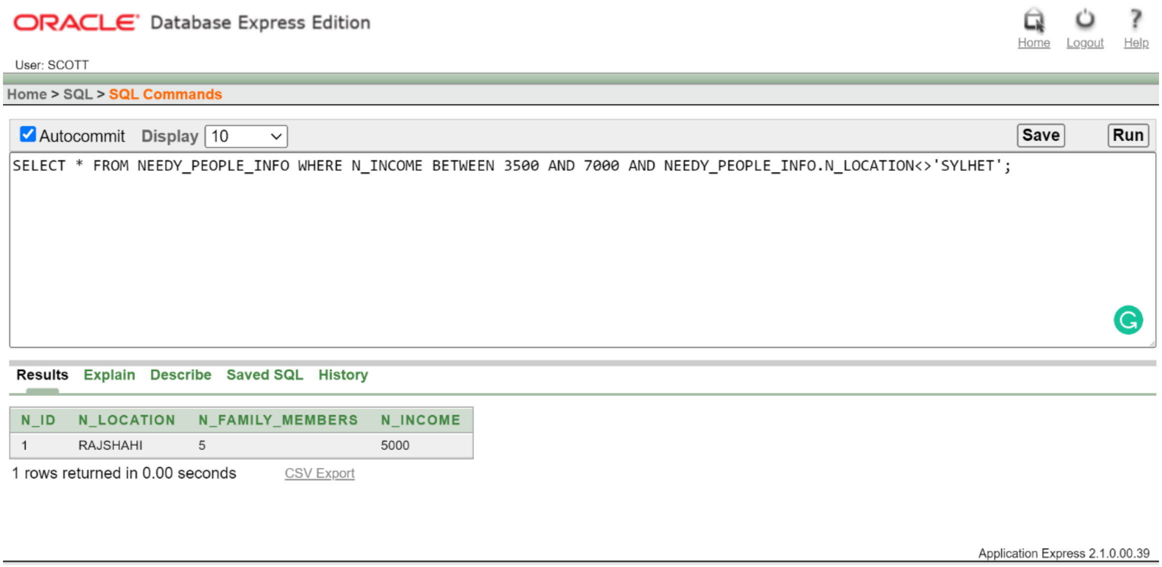
```
SELECT P_NAME FROM PERSON_ID, DONATION, DONATION_ID WHERE DONATION.D_ID= DONATION_ID. D_ID AND PERSON_ID.P_NATIONAL_ID =
DONATION_ID.P_NATIONAL_ID AND D_AMOUNT=17100;
```

P_NAME
ROKEY

```
1 rows returned in 0.01 seconds
```

2. Display all details of needy people when income between 3500 and 10000 live but out of Sylhet.

SELECT * FROM NEEDY_PEOPLE_INFO WHERE N_INCOME BETWEEN 3500 AND 7000 AND NEEDY_PEOPLE_INFO.N_LOCATION<>'SYLHET';


ORACLE Database Express Edition
Home
Logout
Help
User: SCOTT
Home > SQL > SQL Commands
☑ Autocommit
Display 10
Save
Run
Results
Explain
Describe
Saved SQL
History
CSV Export
Application Express 2.1.0.00.39

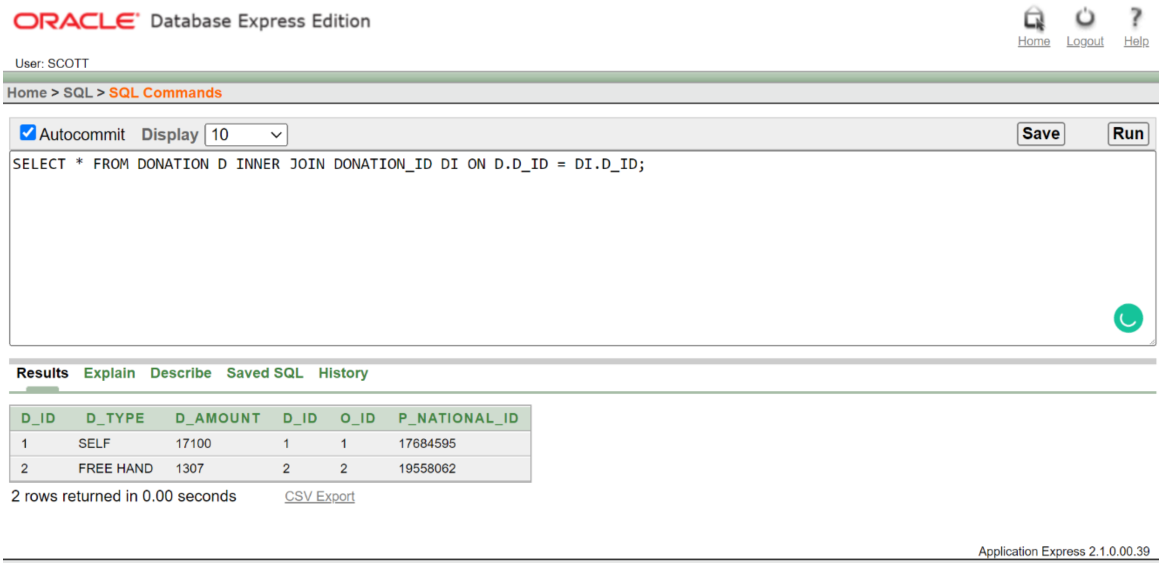
```
SELECT * FROM NEEDY_PEOPLE_INFO WHERE N_INCOME BETWEEN 3500 AND 7000 AND NEEDY_PEOPLE_INFO.N_LOCATION<>'SYLHET';
```

N_ID	N_LOCATION	N_FAMILY_MEMBERS	N_INCOME
1	RAJSHAHI	5	5000

```
1 rows returned in 0.00 seconds
```

3. Display all info for those who have donated.

SELECT * FROM DONATION D INNER JOIN DONATION_ID DI ON D.D_ID = DI.D_ID;



ORACLE Database Express Edition
Home
Logout
Help
User: SCOTT
Home > SQL > SQL Commands
Autocommit
Display
Save
Run
Results
Explain
Describe
Saved SQL
History
CSV Export
Application Express 2.1.0.00.39

☑ Autocommit Display 10

```
SELECT * FROM DONATION D INNER JOIN DONATION_ID DI ON D.D_ID = DI.D_ID;
```

D_ID	D_TYPE	D_AMOUNT	D_ID	O_ID	P_NATIONAL_ID
1	SELF	17100	1	1	17684595
2	FREE HAND	1307	2	2	19558062

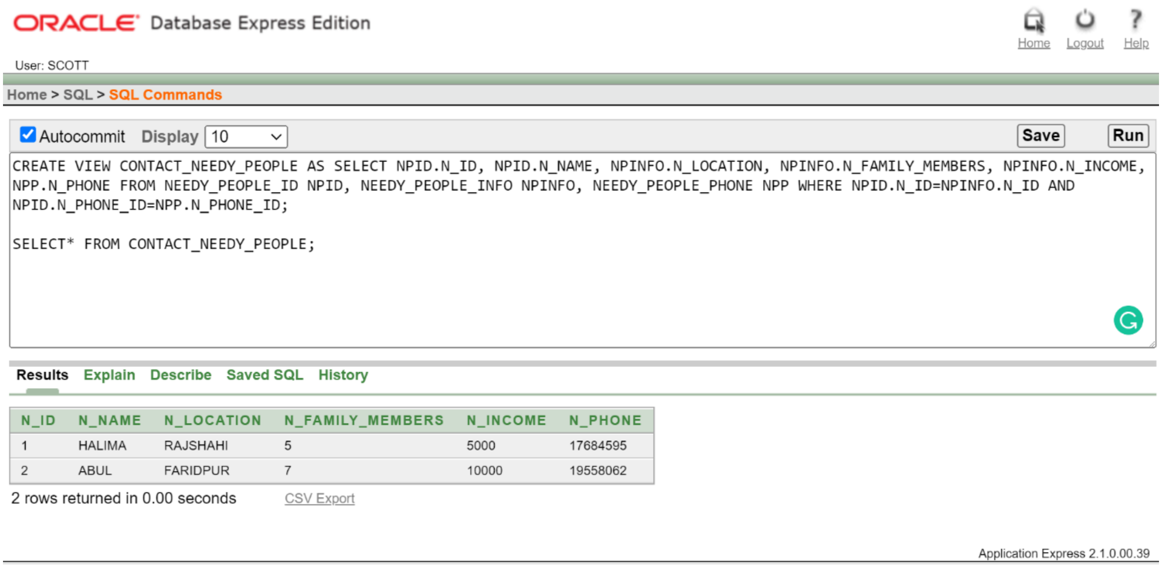
2 rows returned in 0.00 seconds

VIEW

1. Creating a view named CONTACT_NEEDY_PEOPLE.

CREATE VIEW CONTACT_NEEDY_PEOPLE AS SELECT NPID.N_ID, NPID.N_NAME, NPINFO.N_LOCATION, NPINFO.N_FAMILY_MEMBERS, NPINFO.N_INCOME, NPP.N_PHONE FROM NEEDY_PEOPLE_ID NPID, NEEDY_PEOPLE_INFO NPINFO, NEEDY_PEOPLE_PHONE NPP WHERE NPID.N_ID=NPINFO.N_ID AND NPID.N_PHONE_ID=NPP.N_PHONE_ID;

SELECT* FROM CONTACT_NEEDY_PEOPLE;


ORACLE Database Express Edition
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Logout
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User: SCOTT
Home > SQL > SQL Commands
☑ Autocommit
Display 10
Save
Run
Results
Explain
Describe
Saved SQL
History
CSV Export
Application Express 2.1.0.00.39

```
CREATE VIEW CONTACT_NEEDY_PEOPLE AS SELECT NPID.N_ID, NPID.N_NAME, NPINFO.N_LOCATION, NPINFO.N_FAMILY_MEMBERS, NPINFO.N_INCOME,
NPP.N_PHONE FROM NEEDY_PEOPLE_ID NPID, NEEDY_PEOPLE_INFO NPINFO, NEEDY_PEOPLE_PHONE NPP WHERE NPID.N_ID=NPINFO.N_ID AND
NPID.N_PHONE_ID=NPP.N_PHONE_ID;

SELECT* FROM CONTACT_NEEDY_PEOPLE;
```

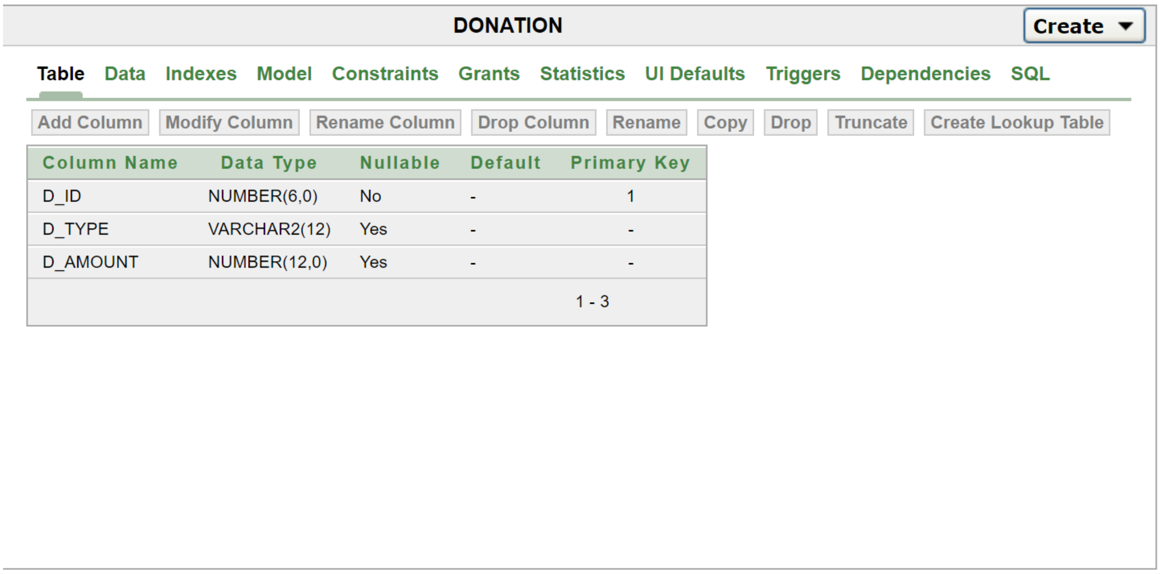
N_ID	N_NAME	N_LOCATION	N_FAMILY_MEMBERS	N_INCOME	N_PHONE
1	HALIMA	RAJSHAHI	5	5000	17684595
2	ABUL	FARIDPUR	7	10000	19558062

2 rows returned in 0.00 seconds

CONSTRAINT

1. Adding PRIMARY KEY.

```
ALTER TABLE DONATION ADD PRIMARY KEY(D_ID);
```


DONATION
Create
Table Data Indexes Model Constraints Grants Statistics UI Defaults Triggers Dependencies SQL
Add Column Modify Column Rename Column Drop Column Rename Copy Drop Truncate Create Lookup Table

Column Name	Data Type	Nullable	Default	Primary Key
D_ID	NUMBER(6,0)	No	-	1
D_TYPE	VARCHAR2(12)	Yes	-	-
D_AMOUNT	NUMBER(12,0)	Yes	-	-

1 - 3