



AMERICAN INTERNATIONAL UNIVERSITY – BANGLADESH

INTRODUCTION TO DATABASE

FALL - 2022-2023

Supervise By

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Project Topic: Orphanage Management System

Group No: 08

Section: G

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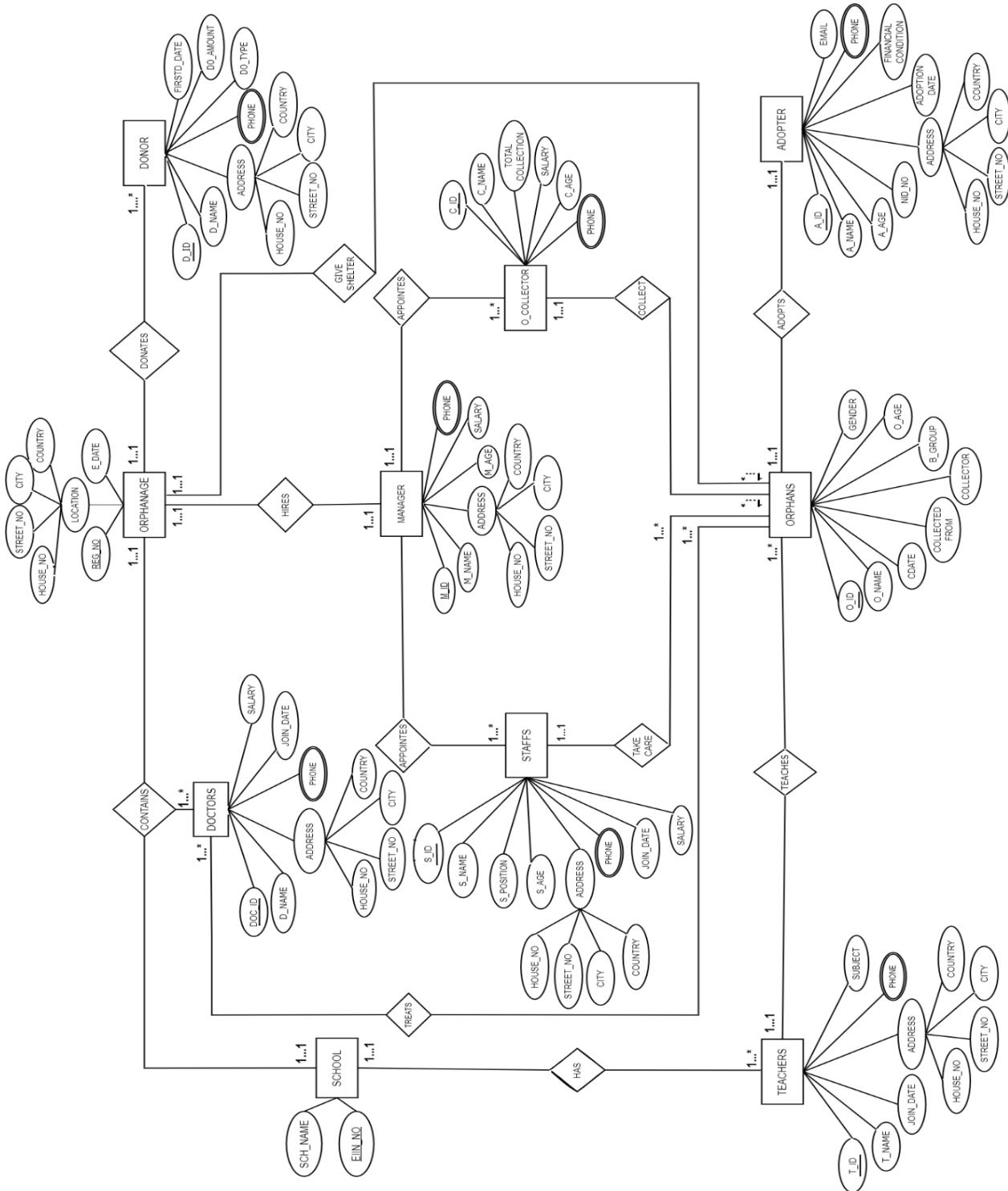
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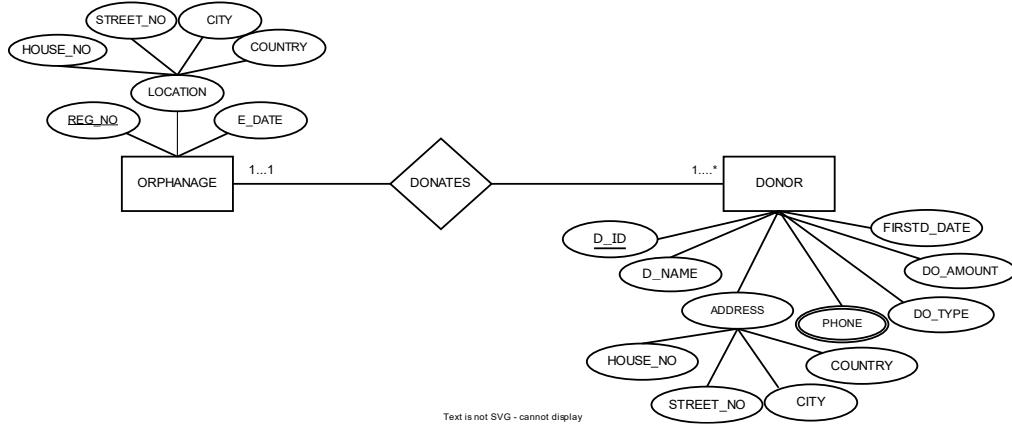
ORPHANAGE MANAGEMENT SYSTEM

It's 2122.Two great nations are conflicting against each other from a while. A great number of people are passing away every day as an impact of the war. As a result, many children are losing their parents. So, an international company took an initiative to shelter the orphans from the affected area to a safe place and established an orphanage. The orphanage has a database management system where orphanage's unique registration ID, established date and location are stored. In this management system orphanage hires a manager. To identify manager the system stores manager ID, name, address, age, salary and phone number. The manager appointed some employees, known as the "O_COLLECTORS", who collects orphans from the affected area and send them to the orphanage. These collectors have collector ID, name, salary, age, phone number and number of total collected orphan. The orphanage has also staffs, who take care of the orphans. Staffs are also appointed by the manager. Each staffs have staff ID, name, age, position, salary, joining date and address. Orphanage gives shelter to orphans. All orphans of the orphanage have unique orphan ID. Their name, age, collector name, country from where they were collected, collection date, blood group and gender are also stored in the database. There are some fixed donators, who donates to the orphanage regularly. Donating to the orphanage is open for all. The orphanage creates a unique donor ID whoever donates them. It also stores donor name, phone number, address, donation type, donation amount, first donation date of the donor. There are adopters who adopt the orphans as their family members. The orphanage creates an adopter ID whenever they adopt an orphan. Name, age, address, phone number, email address, NID number, adoption date and financial condition of the adopter are also stored. The orphanage has its own schooling system, where database system stores EIIN number and name of school. School has teachers having their own teacher ID, name, joining date, address, phone number and subject. One teacher may teach many orphans. Here addresses and location are composed of house number, street number, city and country.

ER DIAGRAM



NORMALIZATION:



DONATES:

UNF:

REG_NO, E_DATE, HOUSE_NO, STREET_NO, CITY, COUNTRY, D_ID, D_NAME,
HOUSE_NO, STREET_NO, CITY, COUNTRY, PHONE, DO_TYPE, DO_AMOUNT, FIRSTD_DATE

1NF:

PHONE is a multivalued attribute

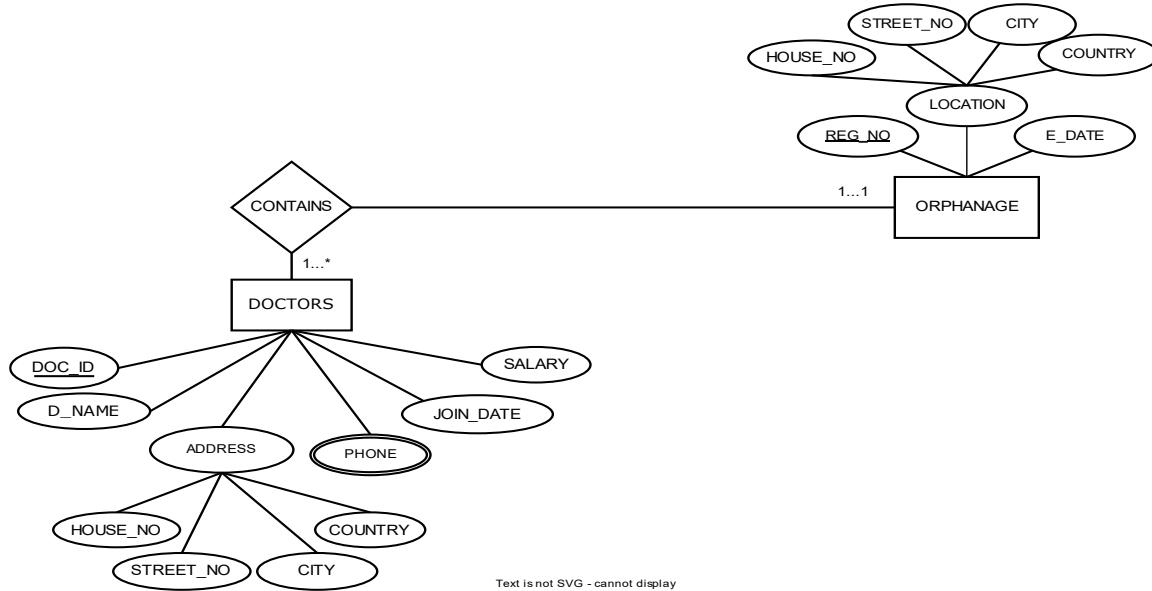
REG_NO, E_DATE, HOUSE_NO, STREET_NO, CITY, COUNTRY, D_ID, D_NAME,
HOUSE_NO, STREET_NO, CITY, COUNTRY, DO_TYPE, DO_AMOUNT, FIRSTD_DATE

2NF:

1. REG_NO, E_DATE, HOUSE_NO, STREET_NO, CITY, COUNTRY
2. D_ID, D_NAME, HOUSE_NO, STREET_NO, CITY, COUNTRY, DO_TYPE, DO_AMOUNT, FIRSTD_DATE, REG_NO, PHONE_ID
3. PHONE_ID, PHONE

3NF:

1. REG_NO, E_DATE, ADD_ID
2. ADD_ID, HOUSE_NO, STREET_NO, CITY, COUNTRY
3. D_ID, D_NAME, REG_NO, ADD_ID, PHONE_ID
4. ADD_ID, HOUSE_NO, STREET_NO, CITY, COUNTRY
5. D_ID, DO_TYPE, DO_AMOUNT, FIRSTD_DATE,
6. PHONE_ID, PHONE



CONTAINS:

UNF:

REG_NO, E_DATE, HOUSE_NO, STREET_NO, CITY, COUNTRY, DOC_ID, DO_NAME,
HOUSE_NO, STREET_NO, CITY, COUNTRY, PHONE, JOIN_DATE, SALARY

1NF:

PHONE is a multivalued attribute

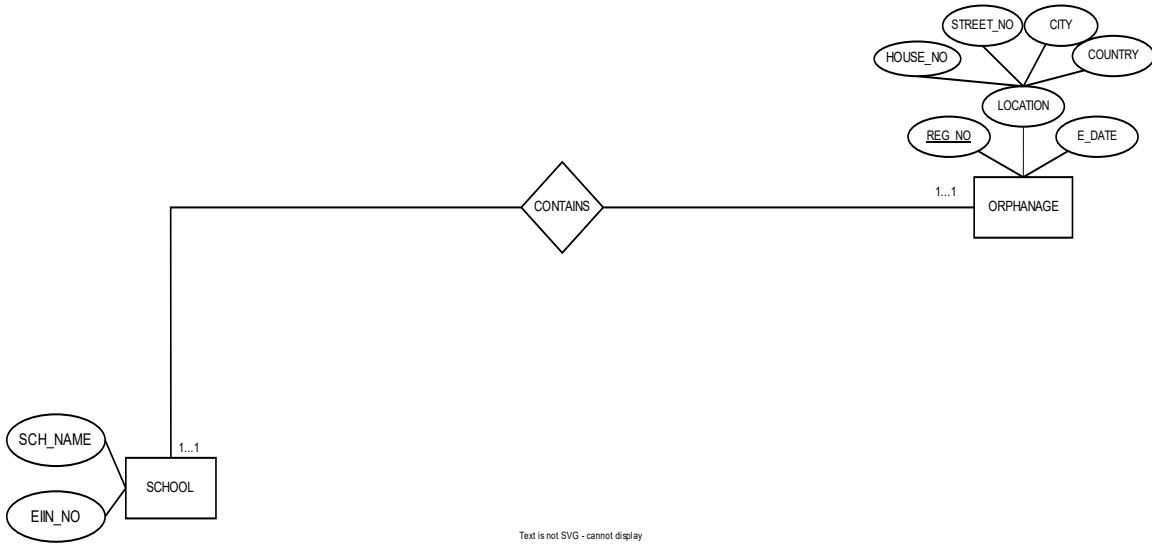
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HOUSE_NO, STREET_NO, CITY, COUNTRY, JOIN_DATE, SALARY

2NF:

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2. DOC_ID, DO_NAME, HOUSE_NO, STREET_NO, CITY, COUNTRY, JOIN_DATE,
SALARY, REG_NO, PHONE ID
3. PHONE ID, PHONE

3NF:

1. REG_NO, E_DATE, ADD_ID
2. ADD_ID, HOUSE_NO, STREET_NO, CITY, COUNTRY
3. DOC_ID, DO_NAME, JOIN_DATE, SALARY, REG_NO, PHONE ID, ADD_ID
4. ADD_ID, HOUSE_NO, STREET_NO, CITY, COUNTRY
5. PHONE ID, PHONE



CONTAIN:

UNF:

REG_NO, REG_NO, E_DATE, HOUSE_NO, STREET_NO, CITY, COUNTRY, SCH_NAME, EIIN_NO

1NF:

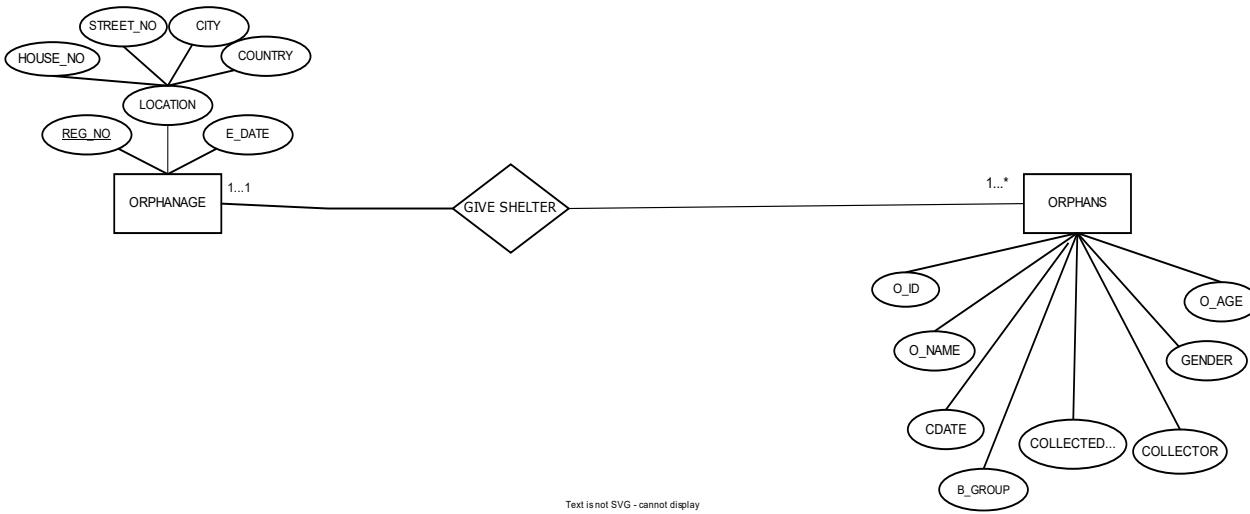
REG_NO, REG_NO, E_DATE, HOUSE_NO, STREET_NO, CITY, COUNTRY, SCH_NAME, EIIN_NO

2NF:

1. REG_NO, E_DATE, HOUSE_NO, STREET_NO, CITY, COUNTRY
2. EIIN_NO, SCH_NAME, REG_NO

3NF:

1. REG_NO, E_DATE, ADD_ID
2. ADD_ID, HOUSE_NO, STREET_NO, CITY, COUNTRY
3. EIIN_NO, SCH_NAME, REG_NO



GIVE SHELTER:

UNE:

REG_NO, REG_NO, E_DATE, HOUSE_NO, STREET_NO, CITY, COUNTRY, O_ID, O_NAME, C_DATE, COLLECTED_FROM, COLLECTOR, B_GROUP, GENDER, O_AGE

1NF:

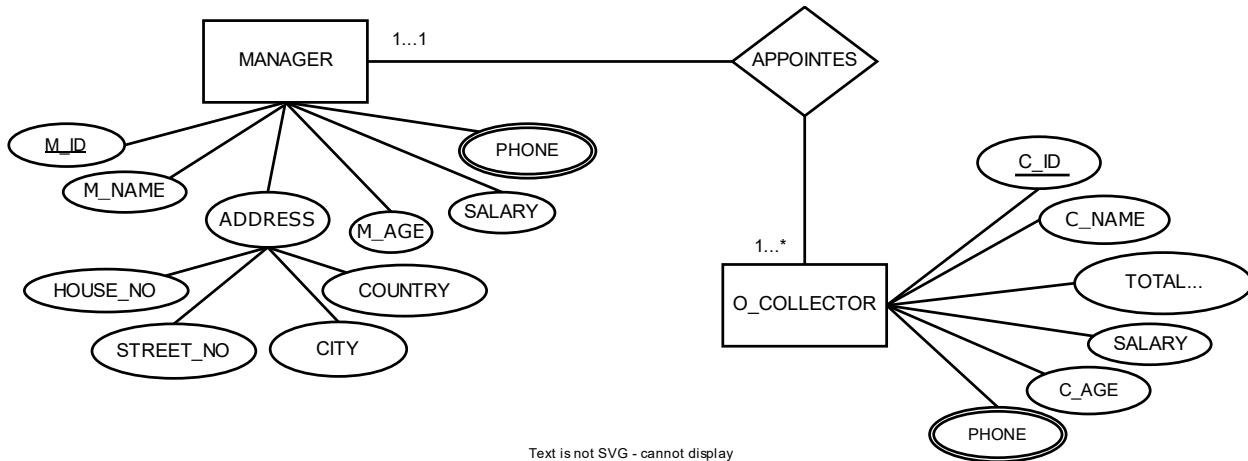
REG_NO, REG_NO, E_DATE, HOUSE_NO, STREET_NO, CITY, COUNTRY, O_ID, O_NAME, C_DATE, COLLECTED_FROM, COLLECTOR, B_GROUP, GENDER, O_AGE

2NF:

1. REG_NO, E_DATE, HOUSE_NO, STREET_NO, CITY, COUNTRY
2. O_ID, O_NAME, C_DATE, COLLECTED_FROM, COLLECTOR, B_GROUP, GENDER, O_AGE, REG_NO

3NF:

1. REG_NO, E_DATE, ADD_ID
2. ADD_ID, HOUSE_NO, STREET_NO, CITY, COUNTRY
3. O_ID, O_NAME, B-GROUP, GENDER, O_AGE, REG_NO
4. O_ID, C_DATE, COLLECTED_FROM, COLLECTOR



APPOINTS:

UNF:

M_ID, M_NAME, HOUSE_NO, STREET_NO, CITY, COUNTRY, M_AGE, SALARY, PHONE, C_ID, C_NAME, TOTAL_COLLECTION, SALARY, C_AGE, PHONE

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PHONE is a multivalued attribute

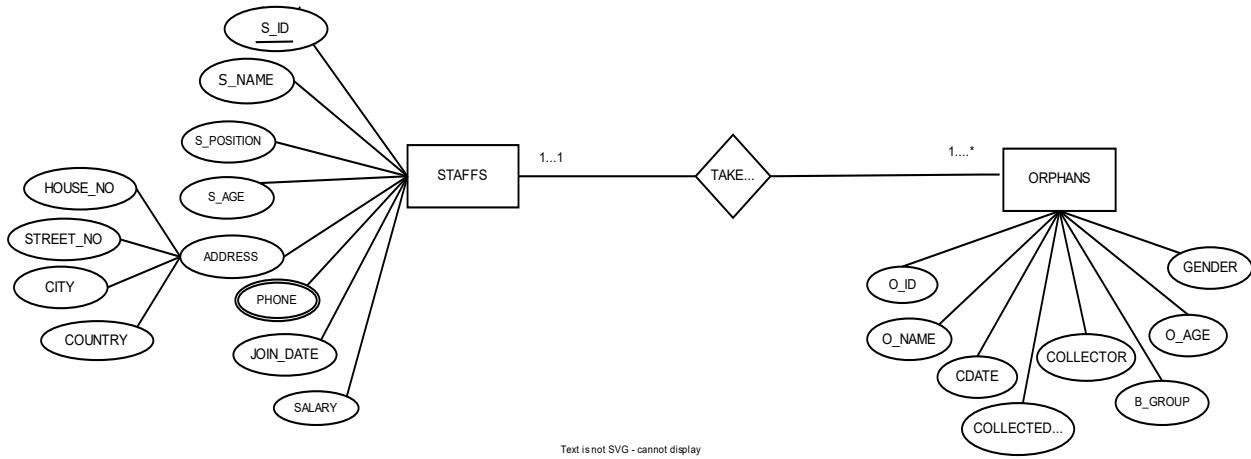
M_ID, M_NAME, HOUSE_NO, STREET_NO, CITY, COUNTRY, M_AGE, SALARY, C_ID, C_NAME, TOTAL_COLLECTION, SALARY, C_AGE,

2NF:

1. M_ID, M_NAME, HOUSE_NO, STREET_NO, CITY, COUNTRY, M_AGE, SALARY, PHONE_ID
2. PHONE_ID, PHONE
3. C_ID, C_NAME, TOTAL_COLLECTION, SALARY, C_AGE, M_ID, PHONE_ID
4. PHONE_ID, PHONE

3NF:

1. M_ID, M_NAME, M_AGE, SALARY, PHONE_ID, ADD_ID
2. ADD_ID, HOUSE_NO, STREET_NO, CITY, COUNTRY
3. PHONE_ID, PHONE
4. C_ID, C_NAME, TOTAL_COLLECTION, SALARY, C_AGE, M_ID, PHONE_ID
5. PHONE_ID, PHONE



TAKE CARE:

UNF:

S_ID, S_NAME, S_POSITION, S_AGE, HOUSE_NO, STREET_NO, CITY, COUNTRY, PHONE, JOIN_DATE, SALARY, O_ID, O_NAME, C_DATE, COLLECTED_FROM, COLLECTOR, B_GROUP, GENDER, O_AGE

1NF:

PHONE is a multivalued attribute

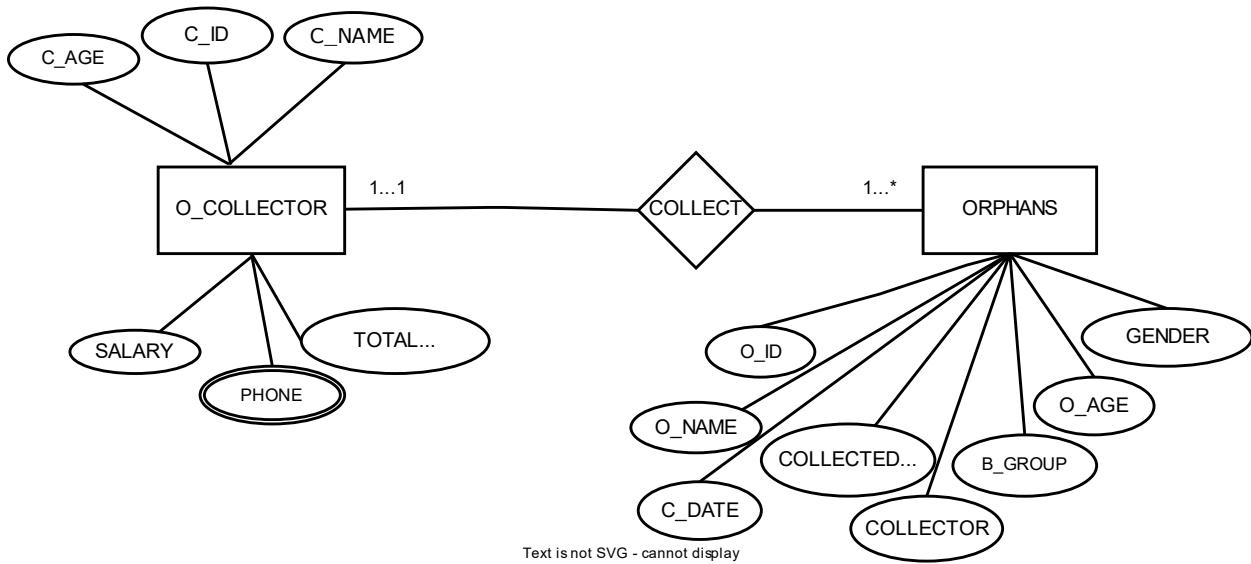
S_ID, S_NAME, S_POSITION, S_AGE, HOUSE_NO, STREET_NO, CITY, COUNTRY, JOIN_DATE, SALARY, O_ID, O_NAME, C_DATE, COLLECTED_FROM, COLLECTOR, B_GROUP, GENDER, O_AGE

2NF:

1. S_ID, S_NAME, S_POSITION, S_AGE, HOUSE_NO, STREET_NO, CITY, COUNTRY, JOIN_DATE, SALARY, PHONE_ID
2. PHONE_ID, PHONE
3. O_ID, O_NAME, C_DATE, COLLECTED_FROM, COLLECTOR, B_GROUP, GENDER, O_AGE, S_ID

3NF:

1. S_ID, S_NAME, S_AGE, JOIN_DATE, ADD_ID, PHONE_ID
2. S_ID, S_POSITION, SALARY
3. ADD_ID, HOUSE_NO, STREET_NO, CITY, COUNTRY
4. PHONE_ID, PHONE
5. O_ID, O_NAME, B-GROUP, GENDER, O_AGE, S_ID
6. O_ID, C_DATE, COLLECTED_FROM, COLLECTOR



COLLECT:

UNF:

C_ID, C_NAME, TOTAL_COLLECTION, SALARY, C_AGE, PHONE, O_ID, O_NAME, C_DATE,
COLLECTED_FROM, COLLECTOR, B_GROUP, GENDER, O_AGE

1NF:

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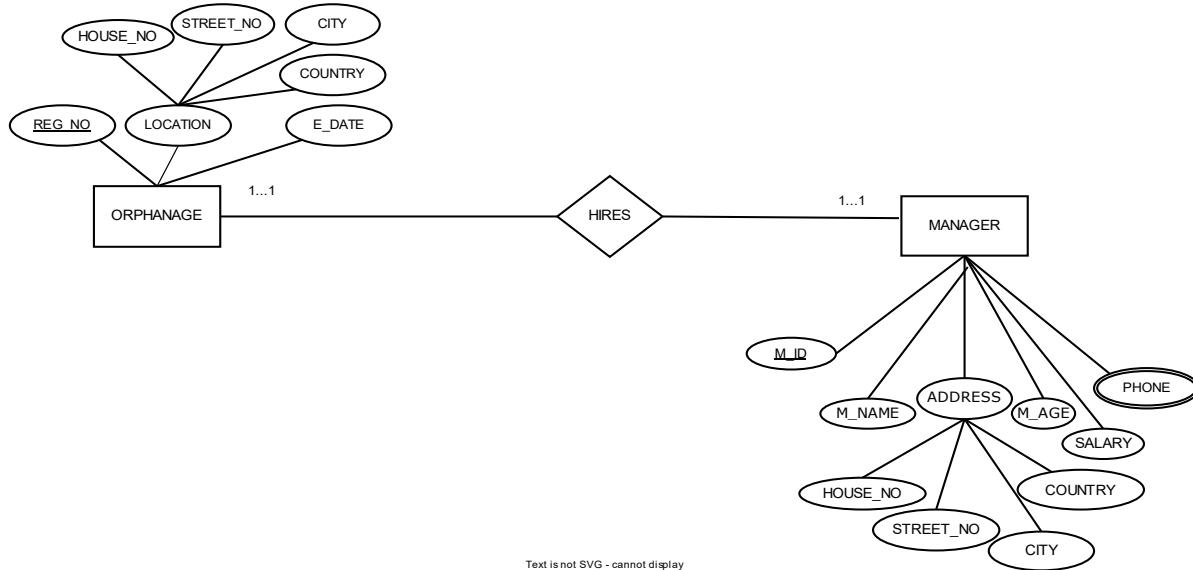
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COLLECTED_FROM, COLLECTOR, B_GROUP, GENDER, O_AGE

2NF:

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2. PHONE_ID, PHONE
3. O_ID, O_NAME, C_DATE, COLLECTED_FROM, COLLECTOR, B_GROUP, GENDER,
O_AGE, C_ID

3NF:

1. C_ID, C_NAME, TOTAL_COLLECTION, SALARY, C_AGE, PHONE_ID
2. PHONE_ID, PHONE
3. O_ID, O_NAME, B_GROUP, GENDER, O_AGE, C_ID
4. O_ID, C_DATE, COLLECTED_FROM, COLLECTOR



HIRES:

UNF:

REG_NO, E_DATE, HOUSE_NO, STREET_NO, CITY, COUNTRY, M_ID, M_NAME, HOUSE_NO, STREET_NO, CITY, COUNTRY, M_AGE, SALARY, PHONE

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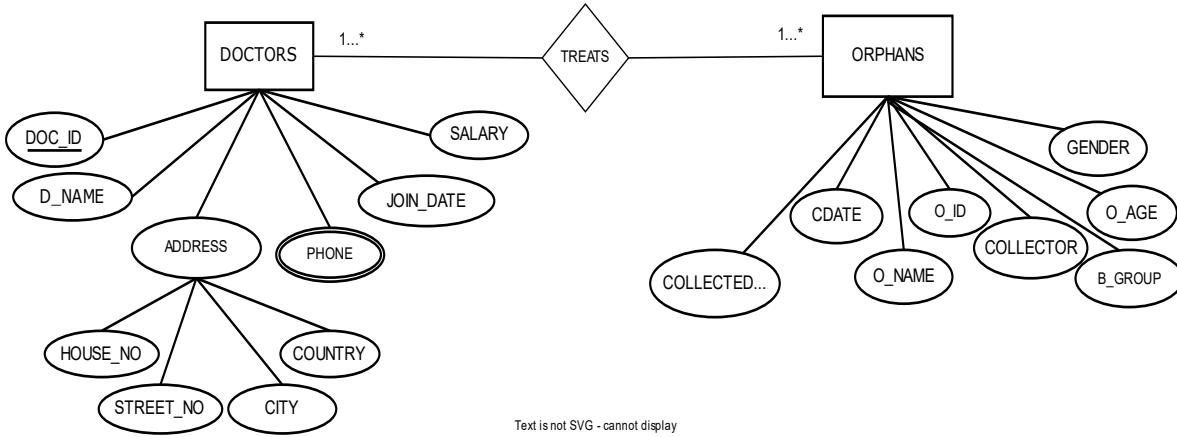
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2NF:

1. REG_NO, E_DATE, HOUSE_NO, STREET_NO, CITY, COUNTRY
2. M_ID, M_NAME, HOUSE_NO, STREET_NO, CITY, COUNTRY, M_AGE, SALARY,
REG_NO, PHONE_ID
3. PHONE_ID, PHONE

3NF:

1. REG_NO, E_DATE, ADD_ID
2. ADD_ID, HOUSE_NO, STREET_NO, CITY, COUNTRY
3. M_ID, M_NAME, M_AGE, SALARY, REG_NO, PHONE_ID, ADD_ID
4. ADD_ID, HOUSE_NO, STREET_NO, CITY, COUNTRY
5. PHONE_ID, PHONE



TREATS:

UNF:

DOC_ID, DO_NAME, HOUSE_NO, STREET_NO, CITY, COUNTRY, PHONE, JOIN_DATE,
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O_AGE

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PHONE is a multivalued attribute

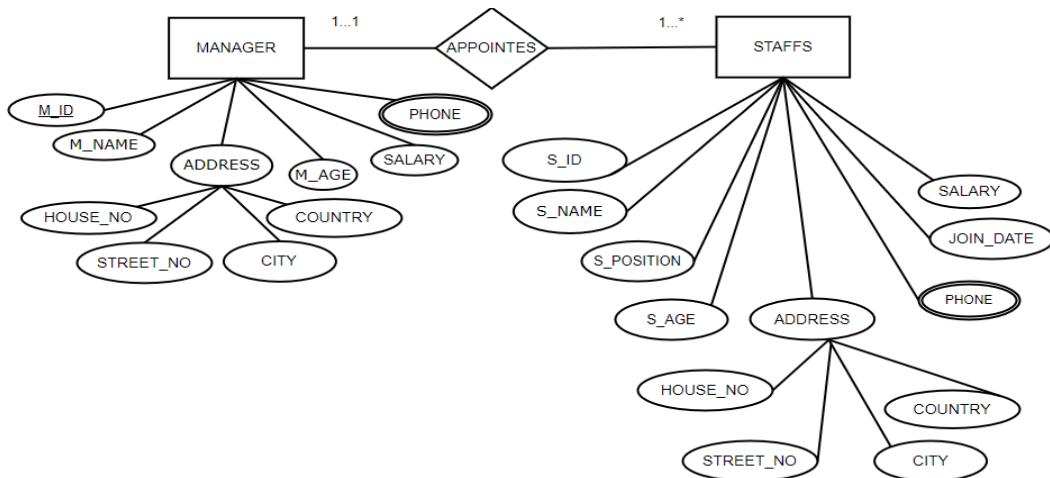
DOC_ID, DO_NAME, HOUSE_NO, STREET_NO, CITY, COUNTRY, JOIN_DATE, SALARY, O_ID,
O_NAME, C_DATE, COLLECTED_FROM, COLLECTOR, B_GROUP, GENDER, O_AGE

2NF:

1. DOC_ID, DO_NAME, HOUSE_NO, STREET_NO, CITY, COUNTRY, JOIN_DATE,
SALARY, PHONE_ID
2. PHONE_ID, PHONE
3. O_ID, O_NAME, C_DATE, COLLECTED_FROM, COLLECTOR, B_GROUP, GENDER,
O_AGE, DOC_ID

3NF:

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3. PHONE_ID, PHONE
4. O_ID, O_NAME, B_GROUP, GENGER, O_AGE, DOC_ID
5. O_ID, C_DATE, COLLECTED_FROM, COLLECTOR



APPOINTES:

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1NF:

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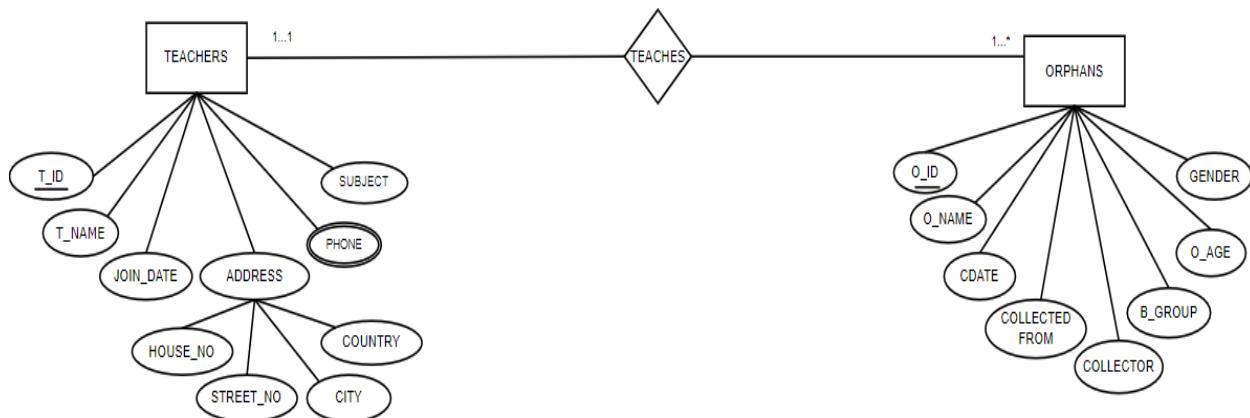
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2NF:

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2. PHONE_ID, PHONE
3. S_ID, S_NAME, S_POSITION, S_AGE, HOUSE_NO, STREET_NO, CITY, COUNTRY, JOIN_DATE, SALARY, M_ID, PHONE_ID
4. PHONE_ID, PHONE

3NF:

1. M_ID, M_NAME, M_AGE, SALARY, ADD_ID, PHONE_ID
2. ADD_ID, HOUSE_NO, STREET_NO, CITY, COUNTRY
3. PHONE_ID, PHONE
4. S_ID, S_NAME, S_AGE, JOIN_DATE, M_ID, ADD_ID, PHONE_ID
5. S_ID, S_POSITION, SALARY
6. ADD_ID, HOUSE_NO, STREET_NO, CITY, COUNTRY
7. PHONE_ID, PHONE



TEACHES:

UNF:

T_ID, T_NAME, SUBJECT, PHONE, JOIN_DATE, HOUSE_NO, STREET_NO, CITY, COUNTRY, O_ID, O_NAME, GENDER, O_AGE, B_GROUP, C_DATE, COLLECTED FROM, COLLECTOR

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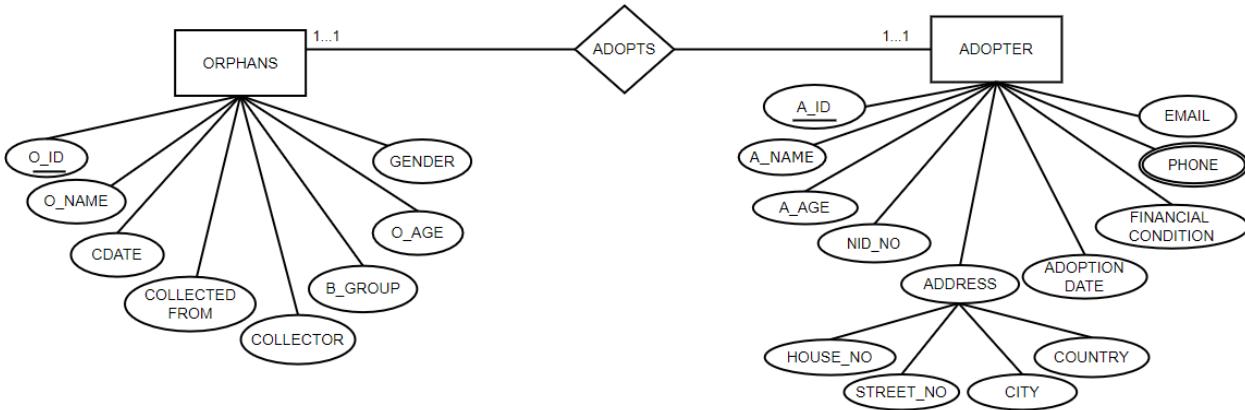
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2NF:

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2. PHONE ID, PHONE
3. O_ID, O_NAME, GENDER, O_AGE, B_GROUP, C_DATE, COLLECTED FROM, COLLECTOR, T_ID

3NF:

1. T_ID, T_NAME, SUBJECT, JOIN_DATE, PHONE ID, ADD ID
2. PHONE ID, PHONE
3. ADD ID HOUSE_NO, STREET_NO, CITY, COUNTRY
4. O_ID, O_NAME, GENDER, O_AGE, B_GROUP, T_ID
5. O_ID, C_DATE, COLLECTED_FROM, COLLECTOR



ADOPTS:

UNF:

A_ID, A_NAME, A_AGE, NID_NO, EMAIL, PHONE, FINANCIAL CONDITION, ADOPTION DATE, HOUSE_NO, STREET_NO, CITY, COUNTRY, O_ID, O_NAME, GENDER, O_AGE, B_GROUP, C_DATE, COLLECTED FROM, COLLECTOR

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PHONE is a multivalued attribute.

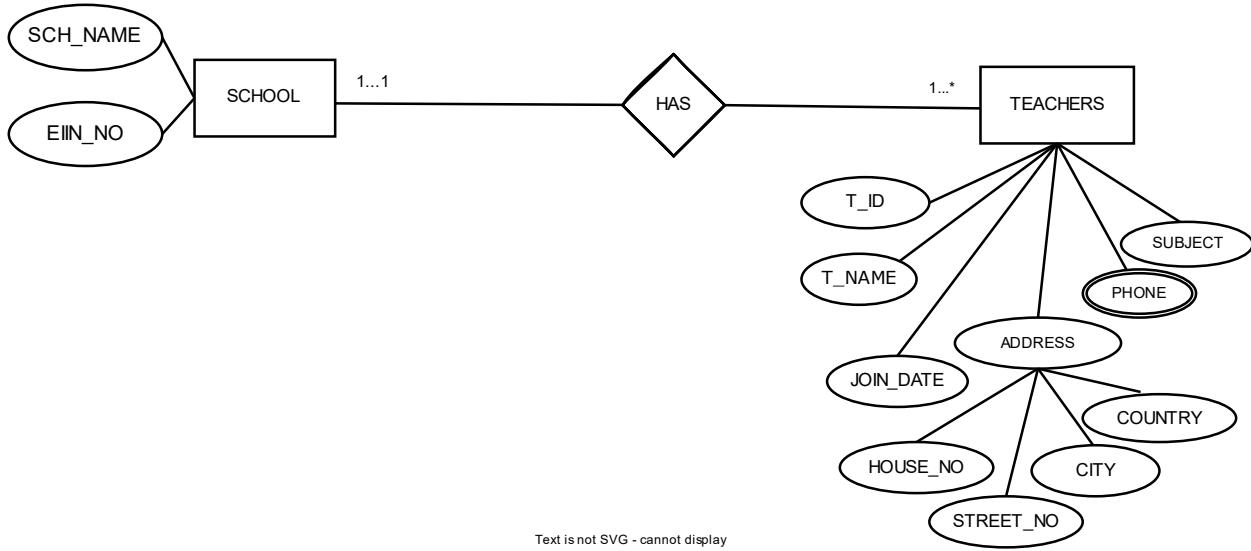
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2NF:

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2. PHONE_ID, PHONE
3. O_ID, O_NAME, GENDER, AGE, BG, C_DATE, COLLECTED_FROM, COLLECTOR, A_ID.

3NF:

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2. PHONE_ID, PHONE
3. ADD_ID, HOUSE_NO, STREET_NO, CITY, COUNTRY
4. O_ID, O_NAME, GENDER, AGE, B_GROUP, A_ID
5. O_ID, C_DATE, COLLECTED_FROM, COLLECTOR



Text is not SVG - cannot display

HAS:

UNF:

EIIN_NO, SCH_NAME, T_ID, T_NAME, SUBJECT, PHONE, JOIN_DATE, HOUSE_NO,
STREET_NO, CITY, COUNTRY

1NF:

PHONE is a multivalued attribute.

EIIN_NO, SCH_NAME, T_ID, T_NAME, SUBJECT, JOIN_DATE, HOUSE_NO, STREET_NO,
CITY, COUNTRY

2NF:

1. EIIN_NO, SCH_NAME
2. T_ID, T_NAME, SUBJECT, JOIN_DATE, HOUSE_NO, STREET_NO, CITY, COUNTRY,
EIIN_NO, PHONE_ID
3. PHONE_ID, PHONE

3NF:

1. EIIN_NO, SCH_NAME
2. T_ID, T_NAME, SUBJECT, JOIN_DATE, EIIN_NO, PHONE_ID, ADD_ID
3. PHONE_ID, PHONE
4. ADD_ID, HOUSE_NO, STREET_NO, CITY, COUNTRY

TABLES

Note: Red marked tables are cancelled out

1. REG_NO, E_DATE, ADD_ID
2. ADD_ID, HOUSE_NO, STREET_NO, CITY, COUNTRY
3. DI_ID, D_NAME, REG_NO, ADD_ID, PHONE_ID
4. ADD_ID, HOUSE_NO, STREET_NO, CITY, COUNTRY
5. D_ID, DO_TYPE, DO_AMOUNT, FIRSTD_DATE,
6. PHONE_ID, PHONE
7. REG_NO, E_DATE, ADD_ID
8. ADD_ID, HOUSE_NO, STREET_NO, CITY, COUNTRY
9. DOC_ID, DO_NAME, JOIN_DATE, SALARY, REG_NO, PHONE_ID, ADD_ID
10. ADD_ID, HOUSE_NO, STREET_NO, CITY, COUNTRY
11. PHONE_ID, PHONE
12. REG_NO, E_DATE, ADD_ID
13. ADD_ID, HOUSE_NO, STREET_NO, CITY, COUNTRY
14. EIIN_NO, SCH_NAME, REG_NO
15. REG_NO, E_DATE, ADD_ID
16. ADD_AD, HOUSE_NO, STREET_NO, CITY, COUNTRY
17. O_ID, O_NAME, B-GROUP, GENDER, O AGE, REG_NO, S_ID, C_ID, DOC_ID, T_ID,
A_ID
18. O_ID, C_DATE, COLLECTED_FROM, COLLECTOR
19. M_ID, M_NAME, M_AGE, SALARY, PHONE_ID, ADD_ID
20. ADD_ID, HOUSE_NO, STREET_NO, CITY, COUNTRY
21. PHONE_ID, PHONE
22. C_ID, C_NAME, TOTAL_COLLECTION, SALARY, C_AGE, M_ID, PHONE_ID
23. PHONE_ID, PHONE
24. S_ID, S_NAME, S_AGE, JOIN_DATE, ADD_ID, PHONE_ID
25. S_ID, S_POSITION, SALARY
26. ADD_ID, HOUSE_NO, STREET_NO, CITY, COUNTRY
27. PHONE_ID, PHONE
28. O_ID, O_NAME, B-GROUP, GENDER, O_AGE, S_ID
29. O_ID, C_DATE, COLLECTED_FROM, COLLECTOR
30. C_ID, C_NAME, TOTAL_COLLECTION, SALARY, C_AGE, PHONE_ID
31. PHONE_ID, PHONE

32. O_ID, O_NAME, B_GROUP, GENDER, O AGE, C_ID
33. O_ID, C_DATE, COLLECTED_FROM, COLLECTOR
34. REG_NO, E_DATE, ADD_ID
35. ADD_ID, HOUSE_NO, STREET_NO, CITY, COUNTRY
36. M_ID, M_NAME, M_AGE, SALARY, REG_NO, PHONE_ID, ADD_ID
37. ADD_ID, HOUSE_NO, STREET_NO, CITY, COUNTRY
38. PHONE_ID, PHONE
39. DOC_ID, DO_NAME, JOIN_DATE, SALARY, ADD_ID, PHONE_ID
40. ADD_ID, HOUSE_NO, STREET_NO, CITY, COUNTRY
41. PHONE_ID, PHONE
42. O_ID, O_NAME, B_GROUP, GENDER, O_AGE, DOC_ID
43. O_ID, C_DATE, COLLECTED_FROM, COLLECTOR
44. M_ID, M_NAME, M_AGE, SALARY, ADD_ID, PHONE_ID
45. ADD_ID, HOUSE_NO, STREET_NO, CITY, COUNTRY
46. PHONE_ID, PHONE
47. S_ID, S_NAME, S_AGE, JOIN_DATE, M_ID, ADD_ID, PHONE_ID
48. S_ID, S_POSITION, SALARY
49. ADD_ID, HOUSE_NO, STREET_NO, CITY, COUNTRY
50. PHONE_ID, PHONE
51. T_ID, T_NAME, SUBJECT, JOIN_DATE, PHONE_ID, ADD_ID
52. PHONE_ID, PHONE
53. ADD_ID, HOUSE_NO, STREET_NO, CITY, COUNTRY
54. O_ID, O_NAME, GENDER, O_AGE, B_GROUP, T_ID
55. O_ID, C_DATE, COLLECTED_FROM, COLLECTOR
56. A_ID, A_NAME, A_AGE, NID_NO, EMAIL, FINANCIAL CONDITION, ADOPTION DATE, PHONE_ID, ADD_ID
57. PHONE_ID, PHONE
58. ADD_ID, HOUSE_NO, STREET_NO, CITY, COUNTRY
59. O_ID, O_NAME, GENDER, AGE, B_GROUP, A_ID
60. O_ID, C_DATE, COLLECTED_FROM, COLLECTOR
61. EIIN_NO, SCH_NAME
62. T_ID, T_NAME, SUBJECT, JOIN_DATE, EIIN_NO, PHONE_ID, ADD_ID
63. PHONE_ID, PHONE
64. ADD_ID, HOUSE_NO, STREET_NO, CITY, COUNTRY

FINAL TABLES:

1. PHONE_ID, PHONE
2. ADD_ID, HOUSE_NO, STREET_NO, CITY, COUNTRY
3. REG_NO, E_DATE, ADD_ID
4. D_ID, D_NAME, REG_NO, ADD_ID, PHONE_ID
5. D_ID, DO_TYPE, DO_AMOUNT, FIRSTD_DATE
6. DOC_ID, DO_NAME, JOIN_DATE, SALARY, REG_NO, ADD_ID, PHONE_ID
7. EIIN_NO, SCH_NAME, REG_NO
8. C_ID, C_NAME, TOTAL_COLLECTION, SALARY, C_AGE, M_ID, PHONE_ID
9. A_ID, A_NAME, A_AGE, NID_NO, EMAIL, FINANCIAL CONDITION, ADOPTION DATE,
ADD_ID, PHONE_ID
10. T_ID, T_NAME, SUBJECT, JOIN_DATE, EIIN_NO, ADD_ID, PHONE_ID
11. S_ID, S_NAME, S_AGE, JOIN_DATE, M_ID, ADD_ID, PHONE_ID
12. S_ID, S_POSITION, SALARY
13. O_ID, O_NAME, B-GROUP, GENDER, O_AGE, REG_NO, C_ID, DOC_ID, A_ID, T_ID,
S_ID
14. O_ID, C_DATE, COLLECTED_FROM, COLLECTOR
15. M_ID, M_NAME, M_AGE, SALARY, REG_NO, ADD_ID, PHONE_ID

TABLE CREATION

User: SCOTT

Home > SQL > SQL Commands

Autocommit

```
CREATE TABLE PHONES(
PHONE_ID NUMBER(3,0) PRIMARY KEY,
PHONE NUMBER NOT NULL
);
DESC PHONES;
```

[Results](#) [Explain](#) [Describe](#) [Saved SQL](#) [History](#)

Object Type **TABLE** Object **PHONES**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
PHONES	PHONE_ID	Number	-	3	0	1	-	-	-
	PHONE	Number	-	-	-	-	-	-	-

1 - 2

Application Express 2.1.0.0.39

SQL Commands x +

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ORACLE Database Express Edition

User: SCOTT

Home > SQL > SQL Commands

Autocommit Display 10 Save Run

```
CREATE TABLE ADDRESS(
ADD_ID NUMBER(3) PRIMARY KEY,
HOUSE_NO NUMBER(3,0) NOT NULL,
STREET_NO NUMBER(4) NOT NULL,
COUNTRY VARCHAR2(255) DEFAULT('BANGLADESH')
);

DESC ADDRESS;
```

Results Explain Describe Saved SQL History

Object Type TABLE Object ADDRESS

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
ADDRESS	ADD_ID	Number	-	3	0	1	-	-	-
	HOUSE_NO	Number	-	3	0	-	-	-	-
	STREET_NO	Number	-	4	0	-	-	-	-
	COUNTRY	Varchar2	255	-	-	-	✓	('BANGLADESH')	-

1 - 4

Application Express 2.1.0.00.39

SQL Commands

User: SCOTT

Home > SQL > SQL Commands

Autocommit Display 10

```
CREATE TABLE ORPHANGE(
REG_NO NUMBER(6,0) PRIMARY KEY,
E_DATE DATE NOT NULL,
ADD_ID NUMBER(3,0) NOT NULL,
FOREIGN KEY (ADD_ID) REFERENCES ADDRESS(ADD_ID)
);

DESC ORPHANGE;
```

Results Explain Describe Saved SQL History

Object Type TABLE Object ORPHANGE

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
ORPHANGE	REG_NO	Number	-	6	0	1	-	-	
	E_DATE	Date	7	-	-	-	-	-	
	ADD_ID	Number	-	3	0	-	-	-	1 - 3

Language: en-gb Application Express 2.1.0.0.0.39 Copyright © 1999, 2006, Oracle. All rights reserved.

SQL Commands

User: SCOTT

Home > SQL > SQL Commands

Autocommit Display 10

```
CREATE TABLE DONOR(
D_ID NUMBER(3) PRIMARY KEY,
D_NAME VARCHAR2(220) DEFAULT 'NAME HIDDEN',
REG_NO NUMBER(6,0) NOT NULL,
ADD_ID NUMBER(3,0) NOT NULL,
PHONE_ID NUMBER(3,0) NOT NULL,
FOREIGN KEY (REG_NO) REFERENCES ORPHANGE(REG_NO),
FOREIGN KEY (ADD_ID) REFERENCES ADDRESS(ADD_ID),
FOREIGN KEY (PHONE_ID) REFERENCES PHONES(PHONE_ID)
);

DESC DONOR;
```

Results Explain Describe Saved SQL History

Object Type TABLE Object DONOR

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
DONOR	D_ID	Number	-	3	0	1	-	-	
	D_NAME	Varchar2	220	-	-	-	✓	'NAME HIDDEN'	-
	REG_NO	Number	-	6	0	-	-	-	
	ADD_ID	Number	-	3	0	-	-	-	
	PHONE_ID	Number	-	3	0	-	-	-	

1 - 5

SQL Commands

User: SCOTT

Home > SQL > SQL Commands

Autocommit Display 10

```
CREATE TABLE DONORINFO(
D_ID NUMBER(3,0)UNIQUE,
DO_TYPE VARCHAR2(255),
DO_AMOUNT NUMBER(10,3),
FIRSTD_DATE DATE NOT NULL,
FOREIGN KEY (D_ID) REFERENCES DONOR(D_ID)
);

DESC DONORINFO;
```

Results Explain Describe Saved SQL History

Object Type TABLE Object DONORINFO

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
DONORINFO	D_ID	Number	-	3	0	-	✓	-	-
	DO_TYPE	Varchar2	255	-	-	-	✓	-	-
	DO_AMOUNT	Number	-	10	3	-	✓	-	-
	FIRSTD_DATE	Date	7	-	-	-	-	-	-

1 - 4

Application Express 2 10.00.39 10:09 AM 12/18/2022

SQL Commands

User SCOTT

Home > SQL > SQL Commands

Autocommit Display 10

```
CREATE TABLE DOCTOR(
DOC_ID NUMBER(4) PRIMARY KEY,
DOC_NAME VARCHAR2(300) NOT NULL,
JOINDATE DATE,
SALARY INT,
REG_NO NUMBER(6,0),
ADD_ID NUMBER(3,0) NOT NULL,
PHONE_ID NUMBER(4,0) UNIQUE,
FOREIGN KEY (REG_NO) REFERENCES ORPHANGE(REG_NO),
FOREIGN KEY (ADD_ID) REFERENCES ADDRESS(ADD_ID),
FOREIGN KEY (PHONE_ID) REFERENCES PHONES(PHONE_ID)
);

DESC DOCTOR;
```

Results Explain Describe Saved SQL History

Object Type TABLE Object DOCTOR

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
DOCTOR	DOC_ID	Number	-	4	0	1	-	-	-
	DOC_NAME	Varchar2	300	-	-	-	-	-	-
	JOINDATE	Date	7	-	-	-	✓	-	-
	SALARY	Number	-	-	0	-	✓	-	-
	REG_NO	Number	-	6	0	-	✓	-	-
	ADD_ID	Number	-	3	0	-	-	-	-
	PHONE_ID	Number	-	4	0	-	✓	-	-

1 - 7

10:39 AM 12/18/2022

SQL Commands

User SCOTT

Home > SQL > SQL Commands

```
CREATE TABLE SCHOOL(
EIN_NO NUMBER(6),
SCH_NAME VARCHAR2(300),
REG_NO NUMBER(6,0) UNIQUE,
FOREIGN KEY(REG_NO) REFERENCES ORPHANGE(REG_NO)
);

DESC SCHOOL;
```

Save Run

Results Explain Describe Saved SQL History

Object Type TABLE Object SCHOOL

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
SCHOOL	EIN_NO	Number	-	6	0	-	✓	-	-
SCHOOL	SCH_NAME	Varchar2	300	-	-	-	✓	-	-
SCHOOL	REG_NO	Number	-	6	0	-	✓	-	-

1 - 3

Language: en-gb Application Express 2.1.0.00.39 Copyright © 1999, 2006, Oracle. All rights reserved.

SQL Commands

User SCOTT

Home > SQL > SQL Commands

```
CREATE TABLE O_COLLECTOR (
C_ID NUMBER (6,0) PRIMARY KEY,
C_NAME VARCHAR2 (300) NOT NULL,
TOTAL_COLLECTION INT,
SALARY NUMBER(7,0) NOT NULL,
C_AGE NUMBER (3),
M_ID NUMBER (5,0),
PHONE_ID NUMBER (4,0) UNIQUE,
FOREIGN KEY (M_ID) REFERENCES MANAGER (M_ID),
FOREIGN KEY (PHONE_ID) REFERENCES PHONES (PHONE_ID)
);

DESC O_COLLECTOR;
```

Save Run

Results Explain Describe Saved SQL History

Object Type TABLE Object O_COLLECTOR

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
O_COLLECTOR	C_ID	Number	-	6	0	1	-	-	-
O_COLLECTOR	C_NAME	Varchar2	300	-	-	-	-	-	-
O_COLLECTOR	TOTAL_COLLECTION	Number	-	-	0	-	✓	-	-
O_COLLECTOR	SALARY	Number	-	7	0	-	-	-	-
O_COLLECTOR	C_AGE	Number	-	3	0	-	✓	-	-
O_COLLECTOR	M_ID	Number	-	5	0	-	✓	-	-
O_COLLECTOR	PHONE_ID	Number	-	4	0	-	✓	-	-

1 - 7

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SQL Commands x +

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ORACLE Database Express Edition

User SCOTT

Home > SQL > SQL Commands

Autocommit Display 10

```
CREATE TABLE ADOPTER (
    A_ID NUMBER (6) PRIMARY KEY,
    A_NAME VARCHAR2 (300) NOT NULL,
    A_AGE NUMBER (3) CHECK (A_AGE>18),
    NID_NO VARCHAR2 (300) NOT NULL,
    EMAIL VARCHAR2 (300) NOT NULL,
    FINANCIAL_CONDITION INT CHECK (FINANCIAL_CONDITION>=100000),
    ADOPTION_DATE DATE CHECK (ADOPTION_DATE>='01-JAN-2122'),
    ADD_ID NUMBER (3,0) NOT NULL,
    PHONE_ID NUMBER (4,0) UNIQUE,
    FOREIGN KEY (ADD_ID) REFERENCES ADDRESS (ADD_ID),
    FOREIGN KEY (PHONE_ID) REFERENCES PHONES (PHONE_ID)
);
DESC ADOPTER;
```

Results Explain Describe Saved SQL History

Object Type TABLE Object ADOPTER

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
ADOPTER	A_ID	Number	-	6	0	1	-	-	-
	A_NAME	VARCHAR2	300	-	-	-	-	-	-
	A_AGE	Number	-	3	0	-	✓	-	-
	NID_NO	VARCHAR2	300	-	-	-	-	-	-
	EMAIL	VARCHAR2	300	-	-	-	-	-	-
	FINANCIAL_CONDITION	Number	-	-	0	-	✓	-	-
	ADOPTION_DATE	Date	7	-	-	-	✓	-	-
	ADD_ID	Number	-	3	0	-	-	-	-
	PHONE_ID	Number	-	4	0	-	✓	-	-

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SQL Commands x +

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ORACLE Database Express Edition

User SCOTT

Home > SQL > SQL Commands

Autocommit Display 10

```
CREATE TABLE TEACHER (
    T_ID NUMBER (6) PRIMARY KEY,
    T_NAME VARCHAR2 (300) NOT NULL,
    SUBJECT VARCHAR2 (300) NOT NULL,
    JOIN_DATE DATE CHECK (JOIN_DATE>='01-JAN-2122'),
    EIIN_NO NUMBER (6),
    ADD_ID NUMBER (3,0) NOT NULL,
    PHONE_ID NUMBER (4,0) NOT NULL,
    FOREIGN KEY (EIIN_NO) REFERENCES SCHOOL(EIIN_NO),
    FOREIGN KEY (ADD_ID) REFERENCES ADDRESS (ADD_ID),
    FOREIGN KEY (PHONE_ID) REFERENCES PHONES (PHONE_ID)
);
DESC TEACHER;
```

Results Explain Describe Saved SQL History

Object Type TABLE Object TEACHER

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
TEACHER	T_ID	Number	-	6	0	1	-	-	-
	T_NAME	VARCHAR2	300	-	-	-	-	-	-
	SUBJECT	VARCHAR2	300	-	-	-	-	-	-
	JOIN_DATE	Date	7	-	-	-	✓	-	-
	EIIN_NO	Number	-	6	0	-	✓	-	-
	ADD_ID	Number	-	3	0	-	-	-	-
	PHONE_ID	Number	-	4	0	-	-	-	-

1 - 7

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SQL Commands x +

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ORACLE® Database Express Edition

User SCOTT

Home > SQL > SQL Commands

Autocommit Display 10

```
CREATE TABLE STAFF (
    S_ID NUMBER (6) PRIMARY KEY,
    S_NAME VARCHAR2 (300) NOT NULL,
    S_AGE NUMBER (3),
    JOIN_DATE DATE CHECK (JOIN_DATE>='01-JAN-2122'),
    M_ID NUMBER (5,0),
    ADD_ID NUMBER (3,0) NOT NULL,
    PHONE_ID NUMBER (4,0) UNIQUE,
    FOREIGN KEY (M_ID) REFERENCES MANAGER (M_ID),
    FOREIGN KEY (ADD_ID) REFERENCES ADDRESS (ADD_ID),
    FOREIGN KEY (PHONE_ID) REFERENCES PHONES (PHONE_ID)
);
DESC STAFF;
```

Results Explain Describe Saved SQL History

Object Type TABLE Object STAFF

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
STAFF	S_ID	Number	-	6	0	1	-	-	-
	S_NAME	Varchar2	300	-	-	-	-	-	-
	S_AGE	Number	-	3	0	-	✓	-	-
	JOIN_DATE	Date	7	-	-	-	✓	-	-
	M_ID	Number	-	5	0	-	✓	-	-
	ADD_ID	Number	-	3	0	-	-	-	-
	PHONE_ID	Number	-	4	0	-	✓	-	-

1 - 7

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User SCOTT

Home > SQL > SQL Commands

Autocommit Display 10

```
CREATE TABLE STAFFINFO(
    S_ID NUMBER(6) UNIQUE,
    S_POSITION VARCHAR2(255) DEFAULT 'JUNIOR STAFF',
    SALARY NUMBER(8,3) NOT NULL,
    FOREIGN KEY(S_ID) REFERENCES STAFF(S_ID)
);

DESC STAFFINFO;
```

Results Explain Describe Saved SQL History

Object Type TABLE Object STAFFINFO

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
STAFFINFO	S_ID	Number	-	6	0	-	✓	-	-
	S_POSITION	Varchar2	255	-	-	-	✓	'JUNIOR STAFF'	-
	SALARY	Number	-	8	3	-	-	-	-

1 - 3

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SQL Commands

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User SCOTT

Home > SQL > SQL Commands

Autocommit

```
CREATE TABLE ORPHAN(
    O_ID NUMBER(3) PRIMARY KEY,
    O_NAME VARCHAR2(255) NOT NULL,
    B_GROUP VARCHAR2(255) CHECK(B_GROUP IN('A+','B+','A-','B-','AB+','AB-','O+','O-')),
    GENDER VARCHAR2(255) CHECK(GENDER IN('MALE','FEMALE','OTHER')),
    O_AGE NUMBER(2) NOT NULL,
    REG_NO NUMBER(6,0) NOT NULL,C_ID NUMBER(6,0) NOT NULL,DOC_ID NUMBER(5,0) NOT NULL,
    A_ID NUMBER(6,0) NOT NULL,T_ID NUMBER(5,0) NOT NULL,S_ID NUMBER(6,0) NOT NULL,
    FOREIGN KEY (REG_NO) REFERENCES ORPHANGE (REG_NO),FOREIGN KEY (C_ID) REFERENCES O_COLLECTOR (C_ID),FOREIGN KEY (DOC_ID) REFERENCES DOCTOR (DOC_ID),
    FOREIGN KEY (A_ID) REFERENCES ADOPTER (A_ID),FOREIGN KEY (T_ID) REFERENCES TEACHER (T_ID),FOREIGN KEY (S_ID) REFERENCES STAFF (S_ID)
);
DESC ORPHAN;
```

Results Explain Describe Saved SQL History

Object Type TABLE Object ORPHAN

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
ORPHAN	O_ID	Number	-	3	0	1	-	-	-
	O_NAME	Varchar2	255	-	-	-	-	-	-
	B_GROUP	Varchar2	255	-	-	-	✓	-	-
	GENDER	Varchar2	255	-	-	-	✓	-	-
	O_AGE	Number	-	2	0	-	-	-	-
	REG_NO	Number	-	6	0	-	-	-	-
	C_ID	Number	-	6	0	-	-	-	-
	DOC_ID	Number	-	5	0	-	-	-	-
	A_ID	Number	-	6	0	-	-	-	-
	T_ID	Number	-	5	0	-	-	-	-
	S_ID	Number	-	6	0	-	-	-	-

1 - 11

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SQL Commands

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User SCOTT

Home > SQL > SQL Commands

Autocommit

```
CREATE TABLE ORPHANINFO(
    O_ID NUMBER(3) UNIQUE,
    C_DATE DATE CHECK(C_DATE>='01-JAN-2122'),
    COLLECTED_FROM VARCHAR2(255) NOT NULL,
    COLLECTOR VARCHAR2(255) NOT NULL,
    FOREIGN KEY (O_ID) REFERENCES ORPHAN (O_ID)
);
DESC ORPHANINFO;
```

Results Explain Describe Saved SQL History

Object Type TABLE Object ORPHANINFO

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
ORPHANINFO	O_ID	Number	-	3	0	-	✓	-	-
	C_DATE	Date	7	-	-	-	✓	-	-
	COLLECTED_FROM	Varchar2	255	-	-	-	-	-	-
	COLLECTOR	Varchar2	255	-	-	-	-	-	-

1 - 4

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Language: en-gb

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SQL Commands

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Home > SQL > SQL Commands

Autocommit

```
CREATE TABLE MANAGER (
    M_ID NUMBER (5,0) PRIMARY KEY,
    M_NAME VARCHAR2 (500) NOT NULL,
    M_AGE INT,
    SALARY INT,
    REG_NO NUMBER (6,0),
    ADD_ID NUMBER (3,0) NOT NULL,
    PHONE_ID NUMBER (4,0) UNIQUE,
    FOREIGN KEY (REG_NO) REFERENCES ORPHANGE (REG_NO),
    FOREIGN KEY (ADD_ID) REFERENCES ADDRESS (ADD_ID),
    FOREIGN KEY (PHONE_ID) REFERENCES PHONES (PHONE_ID)
);

DESC MANAGER;
```

Results Explain Describe Saved SQL History

Object Type TABLE Object MANAGER

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
MANAGER	M_ID	Number	-	5	0	1	-	-	-
	M_NAME	VARCHAR2	500	-	-	-	-	-	-
	M_AGE	Number	-	-	0	-	✓	-	-
	SALARY	Number	-	-	0	-	✓	-	-
	REG_NO	Number	-	6	0	-	✓	-	-
	ADD_ID	Number	-	3	0	-	-	-	-
	PHONE_ID	Number	-	4	0	-	✓	-	-

1 - 7

DATA INSERTION

SQL Commands

```

User SCOTT
Home > SQL > SQL Commands
     Autocommit 













































































































































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```

SQL Commands

User SCOTT

Home > SQL > SQL Commands

Autocommit

```
INSERT INTO ORPHANGE VALUES(123456, '01-JAN-2122', 301);
SELECT * FROM ORPHANGE;
```

Results Explain Describe Saved SQL History

REG_NO	E_DATE	ADD_ID
123456	01-JAN-22	301

1 rows returned in 0.00 seconds [CSV Export](#)

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SQL Commands

User SCOTT

Home > SQL > SQL Commands

Autocommit

```
INSERT INTO DONOR VALUES(123, 'ALEX',123456, 302, 101)
INSERT INTO DONOR VALUES(456, 'HARRY',123456, 303, 102)
INSERT INTO DONOR VALUES(789, 'PRINCE',123456, 304, 103)
INSERT INTO DONOR VALUES(321, 'SABBIR',123456, 305, 104)
INSERT INTO DONOR VALUES(654, 'SHOFIQ',123456, 306, 105)
INSERT INTO DONOR VALUES(987, 'ALAM',123456, 307, 106)

SELECT * FROM DONOR;
```

Results Explain Describe Saved SQL History

D_ID	D_NAME	REG_NO	ADD_ID	PHONE_ID
123	ALEX	123456	302	101
456	HARRY	123456	303	102
789	PRINCE	123456	304	103
321	SABBIR	123456	305	104
654	SHOFIQ	123456	306	105
987	ALAM	123456	307	106

6 rows returned in 0.01 seconds [CSV Export](#)

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SQL Commands

User SCOTT

Home > SQL > SQL Commands

Autocommit

```
INSERT INTO DONORINFO VALUES(123, 'CASH', 35500, '05-JAN-2122')
INSERT INTO DONORINFO VALUES(456, 'CASH', 52000, '19-JAN-2122')
INSERT INTO DONORINFO VALUES(789, 'CHECK', 110000, '05-FEB-2122')
INSERT INTO DONORINFO VALUES(321, 'CHECK', 60000, '11-MAR-2122')
INSERT INTO DONORINFO VALUES(654, 'CASH', 12000, '17-APR-2122')
INSERT INTO DONORINFO VALUES(987, 'BKASH', 25000, '05-JUN-2122')

SELECT * FROM DONORINFO;
```

Results Explain Describe Saved SQL History

D_ID	DO_TYPE	DO_AMOUNT	FIRSTD_DATE
123	CASH	35500	05-JAN-22
456	CASH	52000	19-JAN-22
789	CHECK	110000	05-FEB-22
321	CHECK	60000	11-MAR-22
654	CASH	12000	17-APR-22
987	BKASH	25000	05-JUN-22

6 rows returned in 0.01 seconds [CSV Export](#)

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Language: en-gb

SQL Commands

User SCOTT

Home > SQL > SQL Commands

Autocommit

```
ALTER TABLE DOCTOR
MODIFY REG_NO DEFAULT '123456';

INSERT INTO DOCTOR VALUES(2201, 'MR.JAMES', '05-JUL-2122', 100000,DEFAULT,308,107);
INSERT INTO DOCTOR VALUES(2202, 'MR.HAMES', '05-JUL-2122', 100000,DEFAULT,309,108);
INSERT INTO DOCTOR VALUES(2203, 'MR.CARRY', '05-JUL-2122', 100000,DEFAULT,310,109);
INSERT INTO DOCTOR VALUES(2204, 'MR.TONY', '05-JUL-2122', 100000,DEFAULT,311,110);
INSERT INTO DOCTOR VALUES(2205, 'MR.SINISTER', '05-JUL-2122', 100000,DEFAULT,312,111);
INSERT INTO DOCTOR VALUES(2206, 'MR.KEMERUN', '05-JUL-2122', 100000,DEFAULT,313,112);
INSERT INTO DOCTOR VALUES(2207, 'MR.RONY', '05-JUL-2122', 100000,DEFAULT,314,113);

SELECT * FROM DOCTOR;
```

Results Explain Describe Saved SQL History

DOC_ID	DOC_NAME	JOINDATE	SALARY	REG_NO	ADD_ID	PHONE_ID
2203	MR.CARRY	05-JUL-22	100000	123456	310	109
2204	MR.TONY	05-JUL-22	100000	123456	311	110
2205	MR.SINISTER	05-JUL-22	100000	123456	312	111
2206	MR.KEMERUN	05-JUL-22	100000	123456	313	112
2207	MR.RONY	05-JUL-22	100000	123456	314	113
2201	MR.JAMES	05-JUL-22	100000	123456	308	107
2202	MR.HAMES	05-JUL-22	100000	123456	309	108

7 rows returned in 0.02 seconds [CSV Export](#)

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Language: en-gb

SQL Commands

User SCOTT

Home > SQL > SQL Commands

Autocommit

```
INSERT INTO SCHOOL VALUES(654321,'SUNSHINE ORPHANGE SCHOOL',DEFAULT);

SELECT * FROM SCHOOL;
```

EIIN_NO	SCH_NAME	REG_NO
654321	SUNSHINE ORPHANGE SCHOOL	123456

1 rows returned in 0.00 seconds [CSV Export](#)

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SQL Commands

User SCOTT

Home > SQL > SQL Commands

Autocommit

```
INSERT INTO MANAGER VALUES('1212','MR.WADE','55',250000,123456,315,114);

SELECT * FROM MANAGER;
```

M_ID	M_NAME	M_AGE	SALARY	REG_NO	ADD_ID	PHONE_ID
1212	MR WADE	55	250000	123456	315	114

1 rows returned in 0.01 seconds [CSV Export](#)

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SQL Commands english names - Google Search +

ORACLE Database Express Edition

User SCOTT

Home > SQL > SQL Commands

Autocommit Display | 10

```
INSERT INTO O_COLLECTOR VALUES(1234,'DAVE',13,50000,45,DEFAULT,115);
INSERT INTO O_COLLECTOR VALUES(1235,'MARY',16,55000,46,DEFAULT,116);
INSERT INTO O_COLLECTOR VALUES(1236,'CLERK',18,60000,35,DEFAULT,117);
INSERT INTO O_COLLECTOR VALUES(1237,'JAMES',10,40000,56,DEFAULT,118);
INSERT INTO O_COLLECTOR VALUES(1238,'DEV',21,58000,33,DEFAULT,119);
INSERT INTO O_COLLECTOR VALUES(1239,'VARMA',44,80000,37,DEFAULT,120);
INSERT INTO O_COLLECTOR VALUES(1240,'ROSHAN',27,65000,55,DEFAULT,121);

SELECT * FROM O_COLLECTOR;
```

Results **Explain** **Describe** **Saved SQL** **History**

C_ID	C_NAME	TOTAL_COLLECTION	SALARY	C_AGE	M_ID	PHONE_ID
1234	DAVE	13	50000	45	1212	115
1235	MARY	16	55000	46	1212	116
1236	CLERK	18	60000	35	1212	117
1237	JAMES	10	40000	56	1212	118
1238	DEV	21	58000	33	1212	119
1239	VARMA	44	80000	37	1212	120
1240	ROSHAN	27	65000	55	1212	121

7 rows returned in 0.01 seconds [CSV Export](#)

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SQL ALTER TABLE Statement Oracle 11gR1 ORA-01463 canno... +

ORACLE Database Express Edition

User SCOTT

Home > SQL > SQL Commands

Autocommit Display | 10

```
INSERT INTO ADOPTER VALUES(1510,'MR.RAHIM',37,'91191919','RAHIM@GAMIL.COM',1500000,'18-JAN-2122',316,122);
INSERT INTO ADOPTER VALUES(1511,'MR.KARIM',47,'91101919','KARIM@GAMIL.COM',200000,'10-JUL-2122',317,123);
INSERT INTO ADOPTER VALUES(1512,'MR.MIHIM',27,'91131919','MINIM@GAMIL.COM',500000,'16-APR-2122',318,124);
INSERT INTO ADOPTER VALUES(1513,'MR.HIMEL',33,'91151919','HIMEL@GAMIL.COM',1500000,'23-MAY-2122',319,125);
INSERT INTO ADOPTER VALUES(1514,'MR.TISHAT',35,'91196919','TISHAT@GAMIL.COM',1000000,'21-NOV-2122',320,126);
INSERT INTO ADOPTER VALUES(1515,'MR.ABIR',36,'91131919','ABIR@GAMIL.COM',700000,'15-DEC-2122',321,127);

SELECT * FROM ADOPTER;
```

Results **Explain** **Describe** **Saved SQL** **History**

A_ID	A_NAME	A_AGE	NID_NO	EMAIL	FINANCIAL_CONDITION	ADOPTION_DATE	ADD_ID	PHONE_ID
1510	MR RAHIM	37	91191919	RAHIM@GAMIL.COM	1500000	10-JAN-22	316	122
1511	MR KARIM	47	91101919	KARIM@GAMIL.COM	200000	10-JUL-22	317	123
1512	MR MIHIM	27	91131919	MINIM@GAMIL.COM	500000	16-APR-22	318	124
1513	MR HIMEL	33	91151919	HIMEL@GAMIL.COM	1500000	23-MAY-22	319	125
1514	MR TISHAT	35	91196919	TISHAT@GAMIL.COM	1000000	21-NOV-22	320	126
1515	MR ABIR	36	91131919	ABIR@GAMIL.COM	700000	15-DEC-22	321	127

6 rows returned in 0.00 seconds [CSV Export](#)

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ORACLE® Database Express Edition

User SCOTT

Home > SQL > SQL Commands

Autocommit

```
INSERT INTO TEACHER VALUES(1710,'LEWIS','ENGLISH','04-JAN-2122',DEFAULT,322,128)
INSERT INTO TEACHER VALUES(1711,'GLEN','PHYSICS','04-JAN-2122',DEFAULT,323,129)
INSERT INTO TEACHER VALUES(1712,'MILTON','CHEMISTRY','04-JAN-2122',DEFAULT,324,130)
INSERT INTO TEACHER VALUES(1713,'JULIAN','BIOLOGY','04-JAN-2122',DEFAULT,325,131)
INSERT INTO TEACHER VALUES(1714,'BLAKE','SCIENCE','04-JAN-2122',DEFAULT,326,132)
INSERT INTO TEACHER VALUES(1715,'HORAND','EXERCISE','04-JAN-2122',DEFAULT,327,133)
INSERT INTO TEACHER VALUES(1716,'SHANE','ENGLISH','04-JAN-2122',DEFAULT,328,134)

SELECT * FROM TEACHER;
```

Results Explain Describe Saved SQL History

T_ID	T_NAME	SUBJECT	JOIN_DATE	EINN_NO	ADD_ID	PHONE_ID
1710	LEWIS	ENGLISH	04-JAN-22	654321	322	128
1711	GLEN	PHYSICS	04-JAN-22	654321	323	129
1712	MILTON	CHEMISTRY	04-JAN-22	654321	324	130
1713	JULIAN	BIOLOGY	04-JAN-22	654321	325	131
1714	BLAKE	SCIENCE	04-JAN-22	654321	326	132
1715	HORAND	EXERCISE	04-JAN-22	654321	327	133
1716	SHANE	ENGLISH	04-JAN-22	654321	328	134

7 rows returned in 0.00 seconds [CSV Export](#)

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ORACLE® Database Express Edition

User SCOTT

Home > SQL > SQL Commands

Autocommit

```
INSERT INTO STAFF VALUES(1811,'ARON',35,'11-JUN-2122',DEFAULT,330,135)
INSERT INTO STAFF VALUES(1812,'CARLOS',44,'21-MAY-2122',DEFAULT,331,136)
INSERT INTO STAFF VALUES(1813,'HACTOR',41,'11-JUL-2122',DEFAULT,332,137)
INSERT INTO STAFF VALUES(1814,'DAN',54,'01-NOV-2122',DEFAULT,333,138)
INSERT INTO STAFF VALUES(1815,'JORJE',47,'01-OCT-2122',DEFAULT,334,139)

SELECT * FROM STAFF;
```

Results Explain Describe Saved SQL History

S_ID	S_NAME	S_AGE	JOIN_DATE	M_ID	ADD_ID	PHONE_ID
1810	PETER	34	01-MAY-22	1212	328	134
1811	ARON	35	11-JUN-22	1212	330	135
1812	CARLOS	44	21-MAY-22	1212	331	136
1813	HACTOR	41	11-JUL-22	1212	332	137
1814	DAN	54	01-NOV-22	1212	333	138
1815	JORJE	47	01-OCT-22	1212	334	139

6 rows returned in 0.00 seconds [CSV Export](#)

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Language: en-gb

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SQL Commands English Names: Most Popular Find +

User SCOTT

Home > SQL > SQL Commands

Autocommit

```
INSERT INTO STAFFINFO VALUES(1810,'SENIOR STAFF',100000);
INSERT INTO STAFFINFO VALUES(1811,DEFAULT,50000);
INSERT INTO STAFFINFO VALUES(1812,'COMMANDING STAFF',150000);
INSERT INTO STAFFINFO VALUES(1813,'SENIOR STAFF',100000);
INSERT INTO STAFFINFO VALUES(1814,DEFAULT,40000);
INSERT INTO STAFFINFO VALUES(1815,'SENIOR STAFF',80000);

SELECT * FROM STAFFINFO;
```

S_ID	S_POSITION	SALARY
1812	COMMANDING STAFF	150000
1813	SENIOR STAFF	100000
1814	JUNIOR STAFF	40000
1810	SENIOR STAFF	100000
1811	JUNIOR STAFF	50000
1815	SENIOR STAFF	80000

6 rows returned in 0.00 seconds

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SQL Commands English Names: Most Popular Find +

User SCOTT

Home > SQL > SQL Commands

Autocommit

```
INSERT INTO ORPHAN VALUES(111,'CONOR','A+','MALE',12,DEFAULT,1234,2201,NULL,1710,1810);
INSERT INTO ORPHAN VALUES(112,'ANTONIO','B+','FEMALE',22,DEFAULT,1234,NULL,1510,1710,1810);
INSERT INTO ORPHAN VALUES(113,'HARVEY','O+','FEMALE',15,DEFAULT,1236,2202,NULL,1711,1811);
INSERT INTO ORPHAN VALUES(114,'AIDAN','AB+','MALE',09,DEFAULT,1237,2202,1513,1712,1812);
INSERT INTO ORPHAN VALUES(115,'PAUL','A+','MALE',10,DEFAULT,1238,2203,NULL,1714,1813);
INSERT INTO ORPHAN VALUES(116,'SCOTT','A+','MALE',18,DEFAULT,1238,2204,1515,1714,1813);

SELECT * FROM ORPHAN;
```

O_ID	O_NAME	B_GROUP	GENDER	O_AGE	REG_NO	C_ID	DOC_ID	A_ID	T_ID	S_ID
111	CONOR	A+	MALE	12	123456	1234	2201	-	1710	1810
112	ANTONIO	B+	FEMALE	22	123456	1234	-	1510	1710	1810
113	HARVEY	O+	FEMALE	15	123456	1236	2202	-	1711	1811
114	AIDAN	AB+	MALE	9	123456	1237	2202	1513	1712	1812
115	PAUL	A+	MALE	10	123456	1238	2203	-	1714	1813
116	SCOTT	A+	MALE	18	123456	1238	2204	1515	1714	1813

6 rows returned in 0.00 seconds

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SQL Commands English Names: Most Popular Find +

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ORACLE® Database Express Edition

User: SCOTT

Home > SQL > SQL Commands

Autocommit Save Run

```
INSERT INTO ORPHANINFO VALUES(111,'03-JAN-2122','DEFAULT','DAVE');
INSERT INTO ORPHANINFO VALUES(112,'03-MAY-2122','DEFAULT','DAVE');
INSERT INTO ORPHANINFO VALUES(113,'03-FEB-2122','DEFAULT','CLERK');
INSERT INTO ORPHANINFO VALUES(114,'03-OCT-2122','DEFAULT','JAMES');
INSERT INTO ORPHANINFO VALUES(115,'03-DEC-2122','DEFAULT','DEV');
INSERT INTO ORPHANINFO VALUES(116,'03-DEC-2122','DEFAULT','DEV');

SELECT * FROM ORPHANINFO;
```

Results Explain Describe Saved SQL History

O_ID	C_DATE	COLLECTED_FROM	COLLECTOR
111	03-JAN-22	UKRAINE	DAVE
112	03-MAY-22	UKRAINE	DAVE
113	03-FEB-22	UKRAINE	CLERK
114	03-OCT-22	UKRAINE	JAMES
115	03-DEC-22	UKRAINE	DEV
116	03-DEC-22	UKRAINE	DEV

6 rows returned in 0.02 seconds [CSV Export](#)

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12:30 AM 12/20/2022

CONSTRAINTS

PHONE:

COLUMN NAME	DATA TYPE	CONSTRAINT
PHONE_ID	NUMBER (3,0)	PRIMARY KEY
PHONE	NUMBER	NOT NULL

ADDRESS:

COLUMN NAME	DATA TYPE	CONSTRAINT
ADD_ID	NUMBER (3)	PRIMARY KEY
HOUSE_NO	NUMBER (3,0)	NOT NULL
STREET_NO	NUMBER (4)	NOT NULL
COUNTRY	VARCHAR2(255)	DEFAULT 'BANGLADESH'

ORPHANAGE:

COLUMN NAME	DATA TYPE	CONSTRAINT
REG_NO	NUMBER (6,0)	PRIMARY KEY
E_DATE	DATE	NOT NULL
ADD_ID	NUMBER (3,0)	FOREIGN KEY FROM 'ADDRESS' TABLE

DONOR:

COLUMN NAME	DATA TYPE	CONSTRAINT
D_ID	NUMBER (3)	PRIMARY KEY
D_NAME	VARCHAR2(220)	DEFAULT 'NAME HIDDEN'
REG_NO	NUMBER (6,0)	FOREIGN KEY FROM 'ORPHANGE' TABLE
ADD_ID	NUMBER (3,0)	FOREIGN KEY FROM 'ADDRESS' TABLE
PHONE_ID	NUMBER (3,0)	FOREIGN KEY FROM 'PHONES' TABLE

DONORINFO:

COLUMN NAME	DATA TYPE	CONSTRAINT
D_ID	NUMBER (3,0)	FOREIGN KEY FROM 'DONOR' TABLE
DO_TYPE	VARCHAR2(255)	ONLY 'CASH', 'CHECK', 'BKASH' ALLOWED
DO_AMOUNT	NUMBER (10,3)	NOT NULL;
FIRST_DATE	DATE	NOTNULL

DOCTOR:

COLUMN NAME	DATA TYPE	CONSTRAINT
DOC_ID	NUMBER (4)	PRIMARY KEY
DOC_NAME	VARCHAR2 (300)	
JOINDATE	DATE	
SALARY	INT	
REG_NO	NUMBER (6,0)	DEFAULT '123456'
ADD_ID	NUMBER (3,0)	FOREIGN KEY FROM ‘ADDRESS’ TABLE
PHONE_ID	NUMBER (4,0)	FOREIGN KEY FROM ‘PHONES’ TABLE

SCHOOL:

COLUMN NAME	DATA TYPE	CONSTRAINT
EINN_NO	NUMBER (6)	PRIMARY KEY
SCH_NAME	VARCHAR2 (300)	
REG_NO	NUMBER (6,0)	FOREIGN KEY FROM ‘ORPHANGE’ TABLE

O_COLLECTOR:

COLUMN NAME	DATA TYPE	CONSTRAINT
C_ID	NUMBER (6,0)	PRIMARY KEY
C_NAME	VARCHAR2 (300)	NOT NULL
TOTAL_COLLECTION	INT	
SALARY	NUMBER (7,0)	NOT NULL
C_AGE	NUMBER (3)	
M_ID	NUMBER (5,0)	FOREIGN KEY FROM ‘MANAGER’ TABLE
PHONE_ID	NUMBER (4,0)	FOREIGN KEY FROM ‘PHONES’ TABLE

ADOPTER:

COLUMN NAME	DATA TYPE	CONSTRAINT
A_ID	NUMBER (6)	PRIMARY KEY
A_NAME	VARCHAR2(300)	NOT NULL
A AGE	NUMBER (3)	CHECK A AGE > 18
NID_NO	VARCHAR2(300)	NOT NULL
EMAIL	VARCHAR2(300)	NOT NULL
FINANCIAL_CONDITION	INT	CHECK FINANCIAL_CONDITION > 100000
ADOPTION_DATE	DATE	ADOPTION_DATE > '01-JAN-2122'
ADD_ID	NUMBER (3,0)	FOREIGN KEY FROM 'ADDRESS' TABLE
PHONE_ID	NUMBER (4,0)	FOREIGN KEY FROM 'PHONES' TABLE

TEACHER:

COLUMN NAME	DATA TYPE	CONSTRAINT
T_ID	NUMBER (6)	PRIMARY KEY
T_NAME	VARCHAR2(300)	NOT NULL
SUBJECT	VARCHAR2(300)	NOT NULL
JOIN_DATE	DATE	CHECK JOIN_DATE >= '01-JAN-2122'
EINN_NO	NUMBER (6,0)	FOREIGN KEY FROM 'SCHOOL' TABLE
ADD_ID	NUMBER (3,0)	FOREIGN KEY FROM 'ADDRESS' TABLE
PHONE_ID	NUMBER (4,0)	FOREIGN KEY FROM 'PHONES' TABLE

STAFF:

COLUMN NAME	DATA TYPE	CONSTRAINT
S_ID	NUMBER (6)	PRIMARY KEY
S_NAME	VARCHAR2 (300)	NOT NULL
S_AGE	NUMBER (3)	
JOIN_DATE	DATE	CHECK JOIN_DATE >= ‘-1-JAN-2122’
M_ID	NUMBER (5,0)	FOREIGN KEY FROM ‘MANAGER’ TABLE
ADD_ID	NUMBER (3,0)	FOREIGN KEY FROM ‘ADDRESS’ TABLE
PHONE_ID	NUMBER (4,0)	FOREIGN KEY FROM ‘PHONES’ TABLE

STAFFINFO:

COLUMN NAME	DATA TYPE	CONSTRAINT
S_ID	NUMBER (6)	FOREIGN KEY FROM ‘STAFF’ TABLE
S_POSITION	VARCHAR2(255)	DEFAULT ‘JUNIOR STAFF’
SALARY	NUMBER (8,3)	NOT NULL

ORPHAN:

COLUMN NAME	DATA TYPE	CONSTRAINT
O_ID	NUMBER (3)	PRIMARY KEY
O_NAME	VARCHAR2 (255)	NOT NULL
B_GROUP	VARCHAR2(255)	ONLY A+, B+, 'A-', 'B-','AB+','AB-','O+','O-' ALLOWED
GENDER	VARCHAR2 (255)	ONLY ‘MALE’, ‘FEMALE’, ‘OTHER’ ALLOWED
O_AGE	NUMBER (2)	NOT NULL
REG_NO	NUMBER (6,0)	DEFAULT ‘123456’
ADD_ID	NUMBER (3,0)	FOREIGN KEY FROM ‘ADDRESS’ TABLE
DOC_ID	NUMBER (5,0)	FOREIGN KEY FROM ‘DOCTOR’ TABLE
T_ID	NUMBER (5,0)	FOREIGN KEY FROM ‘TEACHER’ TABLE
A_ID	NUMBER (6,0)	FOREIGN KEY FROM ‘ADOPTER’ TABLE
S_ID	NUMBER (6,0)	FOREIGN KEY FROM ‘STAFF’ TABLE

ORPHANINFO:

COLUMN NAME	DATA TYPE	CONSTRAINT
O_ID	NUMBER (3)	FOREIGN KEY FROM 'ORPHANTABLE' TABLE
C_DATE	DATE	CHECK C_DATE >= '01-JAN-2122'
COLLECTED_FROM	VARCHAR2 (255)	NOT NULL
COLLECTOR	VARCHAR2(255)	NOT NULL

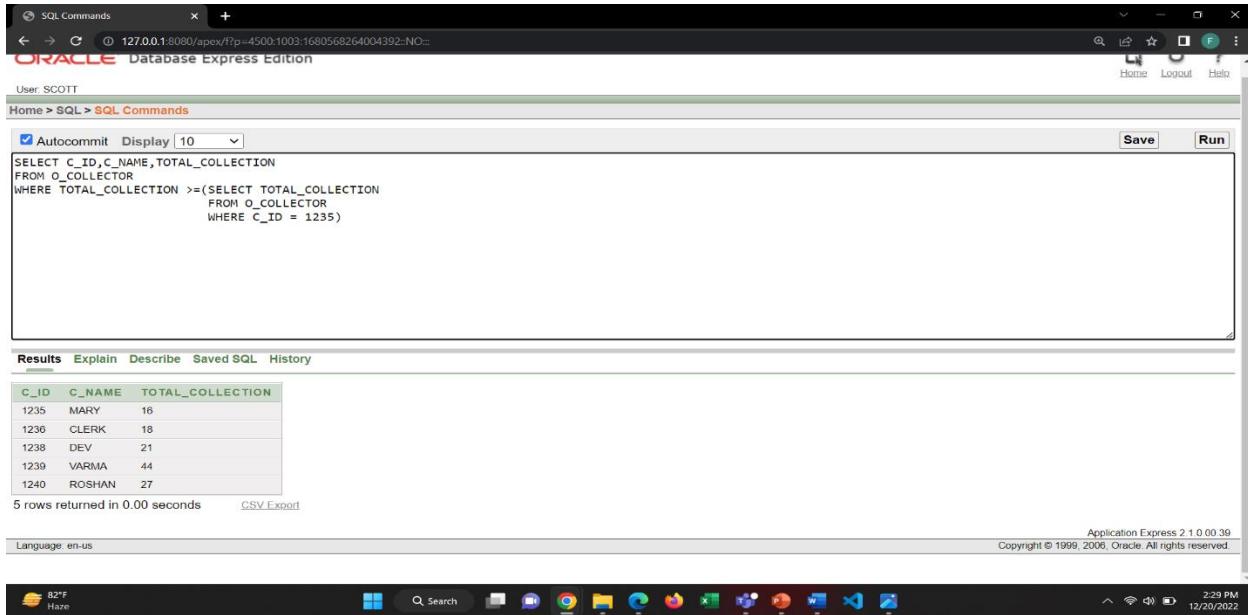
MANAGER:

COLUMN NAME	DATA TYPE	CONSTRAINT
M_ID	NUMBER (5,0)	PRIMARY KEY
M_NAME	VARCHAR2 (500)	NOT NULL
M_AGE	NUMBER	
SALARY	NUMBER	
REG_NO	NUMBER (6,0)	DEFAULT '123456'
ADD_ID	NUMBER (3,0)	FOREIGN KEY FROM 'ADDRESS' TABLE
PHONE_ID	NUMBER (4,0)	FOREIGN KEY FROM 'PHONES' TABLE

QUERY TEST

SUBQUERY:

1. Show the Collector Name, Collector ID, Total Collection of those collector, whose collection is greater than the collector with ID = 1235



```

SQL Commands
127.0.0.1:8080/apex/f?p=4500:1003:1680568264004392::NO::
ORACLE Database Express Edition
User SCOTT
Home > SQL > SQL Commands
Autocommit Display [10] Save Run
SELECT C_ID, C_NAME, TOTAL_COLLECTION
FROM O_COLLECTOR
WHERE TOTAL_COLLECTION >=(SELECT TOTAL_COLLECTION
                           FROM O_COLLECTOR
                           WHERE C_ID = 1235)

```

Results Explain Describe Saved SQL History

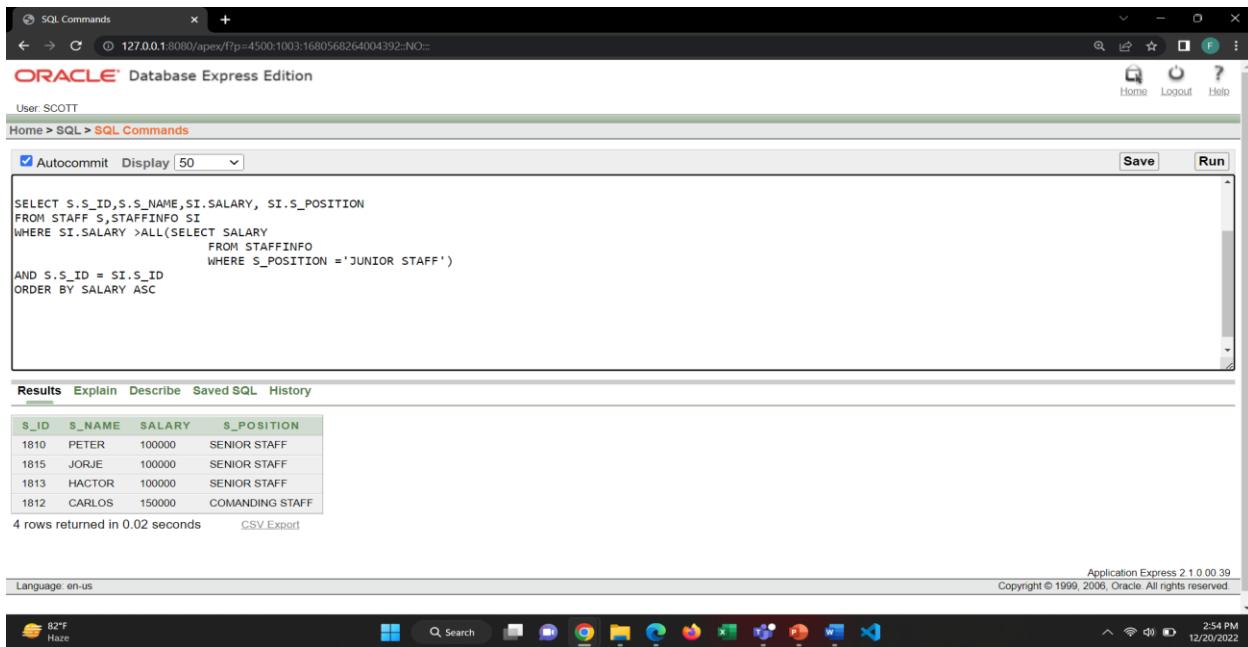
C_ID	C_NAME	TOTAL_COLLECTION
1235	MARY	16
1236	CLERK	18
1238	DEV	21
1239	VARMA	44
1240	ROSHAN	27

5 rows returned in 0.00 seconds CSV Export

Language: en-us Application Express 2.1 0 00.39 Copyright © 1999, 2006, Oracle. All rights reserved.

82°F Haze 2:29 PM 12/20/2022

2. Show the Staff ID, Name, Salary and position of those staffs who earn a salary that is higher than the salary of junior staff order by salary Ascending.



```

SQL Commands
127.0.0.1:8080/apex/f?p=4500:1003:1680568264004392::NO::
ORACLE Database Express Edition
User SCOTT
Home > SQL > SQL Commands
Autocommit Display [50] Save Run
SELECT S_S_ID, S_S_NAME, SI.SALARY, SI.S_POSITION
FROM STAFF S,STAFFINFO SI
WHERE SI.SALARY >ALL(SELECT SALARY
                       FROM STAFFINFO
                       WHERE S_POSITION = 'JUNIOR STAFF')
AND S_S_ID = SI.S_ID
ORDER BY SALARY ASC

```

Results Explain Describe Saved SQL History

S_ID	S_NAME	SALARY	S_POSITION
1810	PETER	100000	SENIOR STAFF
1815	JORIE	100000	SENIOR STAFF
1813	HACTOR	100000	SENIOR STAFF
1812	CARLOS	150000	COMMANDING STAFF

4 rows returned in 0.02 seconds CSV Export

Language: en-us Application Express 2.1 0 00.39 Copyright © 1999, 2006, Oracle. All rights reserved.

82°F Haze 2:54 PM 12/20/2022

JOINING:

1. Show the Donor ID, Donor name those are from the country CANADA.

The screenshot shows the Oracle Database Express Edition interface. The SQL command window contains the following query:

```
SELECT D.D_ID, D.D_NAME, A.COUNTRY
FROM DONOR_D, ADDRESS_A
WHERE D.ADD_ID=A.ADD_ID
AND A.COUNTRY='CANADA'
```

The results pane displays a table with two rows:

D_ID	D_NAME	COUNTRY
789	PRINCE	CANADA
654	SHOFIQ	CANADA

Below the table, it says "2 rows returned in 0.01 seconds". The status bar at the bottom right shows "Application Express 2.1 0.00 39" and "Copyright © 1999, 2006, Oracle. All rights reserved".

2. Show Staff ID, Staff name, Staff salary where salary is between 50000 and 100000

The screenshot shows the Oracle Database Express Edition interface. The SQL command window contains the following query:

```
SELECT S.S_ID, S.S_NAME, SI.SALARY
FROM STAFF_S, STAFFINFO_SI
WHERE S.S_ID=SI.S_ID
AND SI.SALARY BETWEEN 50000 AND 100000
```

The results pane displays a table with five rows:

S_ID	S_NAME	SALARY
1810	PETER	100000
1811	ARON	50000
1813	HACTOR	100000
1814	DAN	50000
1815	JORJE	100000

Below the table, it says "5 rows returned in 0.00 seconds". The status bar at the bottom right shows "Application Express 2.1 0.00 39" and "Copyright © 1999, 2006, Oracle. All rights reserved".

GROUP FUNCTION:

1. Show the Donation Type and Sum of total donation group by Donation Type from the DONORINFO table.

The screenshot shows the Oracle Database Express Edition interface. The SQL command window contains the following SQL code:

```
SELECT DO_TYPE, SUM(DO_AMOUNT)
FROM DONORINFO
GROUP BY DO_TYPE
```

The results window displays the following data:

DO_TYPE	SUM(DO_AMOUNT)
CASH	99500
BKASH	25000
CHECK	170000

3 rows returned in 0.01 seconds

Language: en-us Application Express 2.1 0.00.39 Copyright © 1999, 2006, Oracle. All rights reserved.

2. Show the average of the total collection of the orphan collectors.

The screenshot shows the Oracle Database Express Edition interface. The SQL command window contains the following SQL code:

```
SELECT ROUND(AVG(TOTAL_COLLECTION))
FROM O_COLLECTOR
```

The results window displays the following data:

ROUND(AVG(TOTAL_COLLECTION))
21

1 rows returned in 0.02 seconds

Language: en-us Application Express 2.1 0.00.39 Copyright © 1999, 2006, Oracle. All rights reserved.

CREATE VIEW:

1. Create a view of T_ID, T_NAME, PHONE_ID from the TEACHER table where subject is ENGLISH.

The screenshot shows the Oracle Database Express Edition interface. In the SQL Commands window, the following SQL code is entered:

```
CREATE VIEW TEAVIEW
AS SELECT T_ID, T_NAME, PHONE_ID
FROM TEACHER
WHERE SUBJECT='ENGLISH';

DESC TEAVIEW;
```

Below the code, the results of the DESCRIBE command are shown in a table:

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
TEAVIEW	T_ID	Number	-	6	0	-	-	-	-
	T_NAME	Varchar2	300	-	-	-	-	-	-
	PHONE_ID	Number	-	4	0	-	✓	-	-

At the bottom of the interface, it says "Language: en-us" and "Application Express 2.1.0.00.39 Copyright © 1999, 2006, Oracle. All rights reserved."

2. Create a view of O_ID, O_NAME, C_ID from the orphan table where blood group is A+.

The screenshot shows the Oracle Database Express Edition interface. In the SQL Commands window, the following SQL code is entered:

```
CREATE VIEW ORPHANVIEW
AS SELECT O_ID, O_NAME, C_ID
FROM ORPHAN
WHERE B_GROUP='A+';

DESC ORPHANVIEW;
```

Below the code, the results of the DESCRIBE command are shown in a table:

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
ORPHANVIEW	O_ID	Number	-	3	0	-	-	-	-
	O_NAME	Varchar2	255	-	-	-	-	-	-
	C_ID	Number	-	6	0	-	-	-	-

At the bottom of the interface, it says "Language: en-us" and "Application Express 2.1.0.00.39 Copyright © 1999, 2006, Oracle. All rights reserved."

OTHERS:

1. Show the orphan info who does not have an ADOPTER.

The screenshot shows the Oracle Application Express interface. The title bar says "SQL Commands". The URL is "127.0.0.1:8080/apex/f?p=4500:1003:1638479765720383::NO::". The user is "SCOTT". The page title is "Home > SQL > SQL Commands". The SQL editor contains the following code:

```
SELECT *
FROM ORPHAN
WHERE A_ID IS NULL;
```

The results section shows a table with the following data:

O_ID	O_NAME	B_GROUP	GENDER	O_AGE	REG_NO	C_ID	DOC_ID	A_ID	T_ID	S_ID
111	CONOR	A+	MALE	12	123456	1234	2201	-	1710	1810
113	HARVEY	O+	FEMALE	15	123456	1236	2202	-	1711	1811
115	PAUL	A+	MALE	10	123456	1238	2203	-	1714	1813

3 rows returned in 0.00 seconds [CSV Export](#)

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2. Show the teacher info whose subject is ENGLISH.

The screenshot shows the Oracle Application Express interface. The title bar says "SQL Commands". The URL is "127.0.0.1:8080/apex/f?p=4500:1003:1638479765720383::NO::". The user is "SCOTT". The page title is "Home > SQL > SQL Commands". The SQL editor contains the following code:

```
SELECT * FROM TEACHER
WHERE SUBJECT = 'ENGLISH';
```

The results section shows a table with the following data:

T_ID	T_NAME	SUBJECT	JOIN_DATE	EIIN_NO	ADD_ID	PHONE_ID
1710	LEWIS	ENGLISH	04-JAN-22	654321	322	128
1716	SHANE	ENGLISH	04-JAN-22	654321	328	134

2 rows returned in 0.00 seconds [CSV Export](#)

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