# CSE5011 – Database Systems and Design

Cycle Sheet - I

(Ex-1 and Ex-2)

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#### **Exercise-I:**

- Table Structure:
  - o Employee table:

```
create table employee
(
    first_name varchar(15),
    mid_name char(2),
    last_name varchar(15),
    SSN_number char(9),
    birthday date,
    address varchar(50),
    sex char(1),
    salary number(7),
    supervisor_SSN char(9),
    department_number number(5)
);
```

Results Explain Describe Saved SQL History

Table created.

0.24 seconds

# Department table:

```
create table department
(|
        department_name varchar(15),
        department_number number(5),
        manager_SSN char(9),
        manager_start_date date
);
```

Results Explain Describe Saved SQL History

Table created.

0.02 seconds

#### Project table:

```
create table project
(
    project_name varchar(15),
    project_number number(5),
    project_location varchar(15),|
    department_number number(5)
);

Results Explain Describe Saved SQL History

Table created.

0.00 seconds
```

- 1. Insert the data given above in both employee, department, and project tables.
- Employee Table

```
insert into Employee values
('Doug', 'E', 'Gilbert', 123, '09-JUN-1968', 'Chennai', 'M', 80000, null, 1);
insert into Employee values
('Joyce', '', 'PAN', 124, '07-FEB-1973', 'Vellore', 'F', 70000, null, 1);
insert into Employee values
('Frankin', 'T', 'Wong', 125, '08-DEC-1972', 'Delhi', 'M', 40000, 123, 2);
insert into Employee values
('Jennifer', 'S', 'Wallace', 564, '20-JUN-1983', 'Chennai', 'F', 43000, 123, 2);
insert into Employee values
('John', 'B', 'Smith', 678, '09-JAN-1987', 'Madurai', 'M', 30000, 124, 1);
insert into Employee values
('Ramesh', 'K', 'Narayan', 234, '15-SEP-1985', 'Bangalore', 'M', 38000, 124, 3);
```

Results Explain Describe Saved SQL History

1 row(s) inserted.

0.00 seconds

#### select \* from employee

Results Explain Describe Saved SQL History

FIRST_NAME	MID_NAME	LAST_NAME	SSN_NUMBER	BIRTHDAY	ADDRESS	SEX	SALARY	SUPERVISOR_SSN	DEPARTMENT_NUMBER
Doug	Е	Gilbert	123	09-JUN-68	Chennai	М	80000	-	1
Joyce	-	PAN	124	07-FEB-73	Vellore	F	70000	-	5
Frankin	Т	Wong	125	08-DEC-72	Delhi	M	40000	123	2
Jennifer	S	Wallace	564	20-JUN-83	Chennai	F	43000	123	2
John	В	Smith	678	09-JAN-87	Madurai	М	30000	124	1
Ramesh	K	Narayan	234	15-SEP-85	Bangalore	M	38000	124	3

6 rows returned in 0.16 seconds

CSV Export

# • Department Table

insert into department values('Administration', 2, 564, '03-Jan-2012');
insert into department values('Headquarter', 1, 678, '16-Dec-2014');
insert into department values('Finance', 3, 234, '18-May-2013');
insert into department values('IT', 4, 123, '12-Jun-2015');

Results Explain Describe Saved SQL History

- 1 row(s) inserted.
- 0.00 seconds

#### select \* from department

Results Explain Describe Saved SQL History

DEPARTMENT_NAME	DEPARTMENT_NUMBER	MANAGER_SSN	MANAGER_START_DATE	PHNO
Administration	2	564	03-JAN-12	1234567890
Headquarter	1	678	16-DEC-14	1234567890
Finance	3	234	18-MAY-13	1234567890
IT	4	123	12-JUN-15	1234567890

4 rows returned in 0.02 seconds

CSV Export

## • Project Table

```
insert into project values('ProjectA', 3388, 'Delhi', 1);
insert into project values('ProjectB', 1945, 'Hyderabad', 1);
insert into project values('ProjectC', 6688, 'Chennai', 2);
insert into project values('ProjectD', 2423, 'Chennai', 2);
insert into project values('ProjectE', 7745, 'Bangalore', 3);
```

Results Explain Describe Saved SQL History

1 row(s) inserted.

0.02 seconds

## select \* from project

Results Explain Describe Saved SQL History

PROJECT_NAME	PROJECT_NUMBER	PROJECT_LOCATION	DEPARTMENT_NUMBER
ProjectA	3388	Delhi	1
ProjectB	1945	Hyderabad	1
ProjectC	6688	Chennai	2
ProjectD	2423	Chennai	2
ProjectE	7745	Bangalore	3

5 rows returned in 0.14 seconds

**CSV** Export

# 2. Display all the employees' information.

#### select \* from employee;

Results Explai	n Describe S	Saved SQL Hist	ory						
FIRST_NAME	MID_NAME	LAST_NAME	SSN_NUMBER	BIRTHDAY	ADDRESS	SEX	SALARY	SUPERVISOR_SSN	DEPARTMENT_NUMBER
Doug	Е	Gilbert	123	09-JUN-68	Chennai	M	80000	-	1
Joyce	-	PAN	124	07-FEB-73	Vellore	F	70000	-	1
Frankin	T	Wong	125	08-DEC-72	Delhi	M	40000	123	2
Jennifer	S	Wallace	564	20-JUN-83	Chennai	F	43000	123	2
John	В	Smith	678	09-JAN-87	Madurai	M	30000	124	1
Ramesh	K	Narayan	234	15-SEP-85	Bangalore	M	38000	124	3

6 rows returned in 0.00 seconds

CSV Export

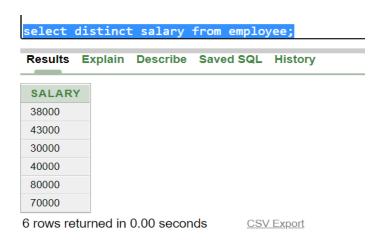
# 3. Display Employee name along with his SSN and Supervisor SSN.



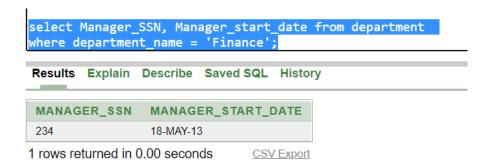
4. Display the employee names whose bdate is '20-JUN-1983'.



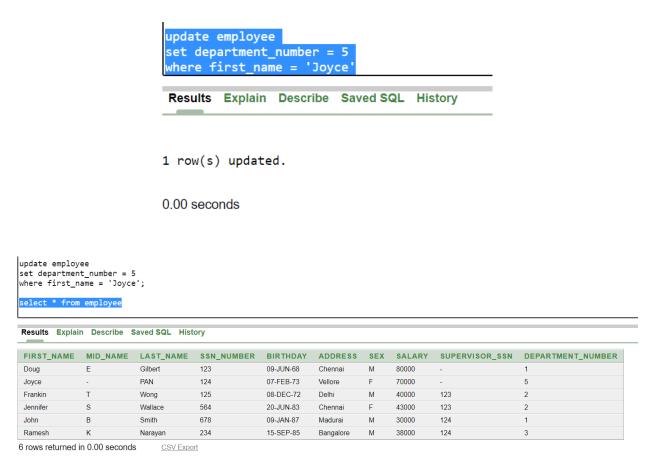
5. Display salary of the employees without duplications.



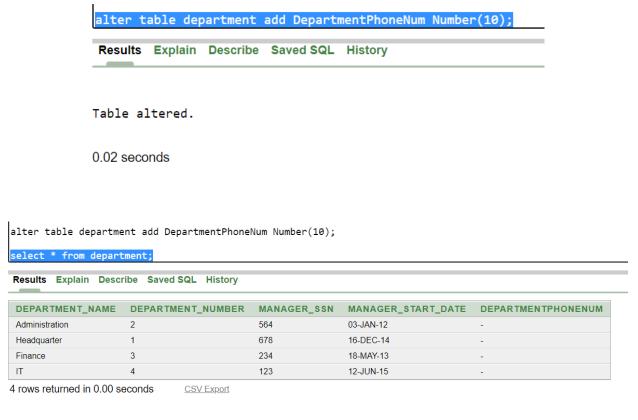
6. Display the MgrSSN, MgrStartDate of the manager of 'Finance' department.



7. Modify the department number of an employee having fname as 'Joyce' to 5.



8. Alter Table department add column DepartmentPhoneNum of NUMBER data type and insert values into this column only.

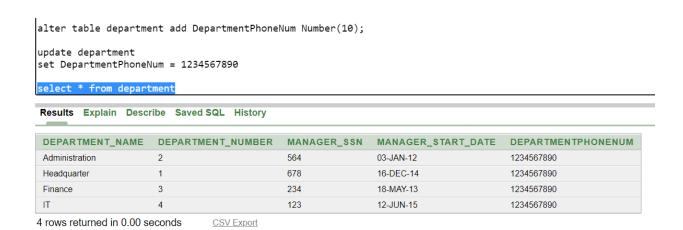


alter table department add DepartmentPhoneNum Number(10);
select \* from department;
update department
set DepartmentPhoneNum = 1234567890

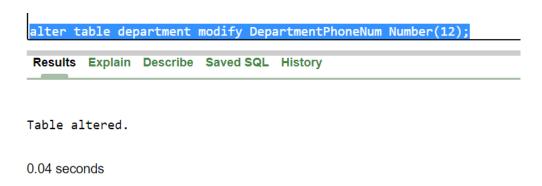
Results Explain Describe Saved SQL History

4 row(s) updated.

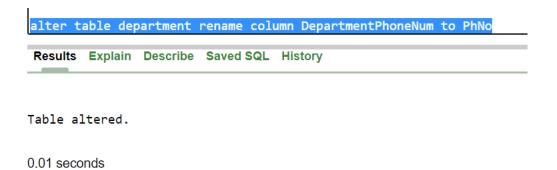
0.02 seconds



# 9. Alter table department to modify the size of DepartmentPhoneNum.



# 10. Modify the field name DepartmentPhoneNum of departments table to PhNo.



alter table department rename column DepartmentPhoneNum to PhNo

select \* from department

Results	Explain	Describe	Saved SQL	History

DEPARTMENT_NAME	DEPARTMENT_NUMBER	MANAGER_SSN	MANAGER_START_DATE	PHNO
Administration	2	564	03-JAN-12	1234567890
Headquarter	1	678	16-DEC-14	1234567890
Finance	3	234	18-MAY-13	1234567890
IT	4	123	12-JUN-15	1234567890

<sup>4</sup> rows returned in 0.00 seconds

# 11. Rename Table Department as DEPT.



Statement processed.

0.01 seconds

rename department to DEPT

Results Explain Describe Saved SQL History

select \* from dept

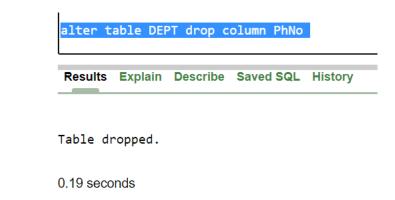
DEPARTMENT_NAME	DEPARTMENT_NUMBER	MANAGER_SSN	MANAGER_START_DATE	PHNO
Administration	2	564	03-JAN-12	1234567890
Headquarter	1	678	16-DEC-14	1234567890
Finance	3	234	18-MAY-13	1234567890
IT	4	123	12-JUN-15	1234567890

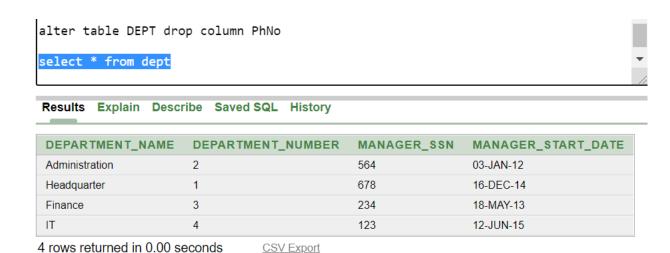
<sup>4</sup> rows returned in 0.01 seconds

CSV Export

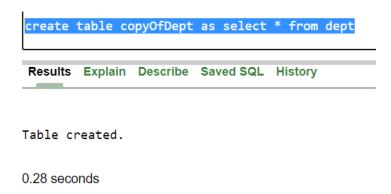
CSV Export

# 12. Alter Table department remove column PhNo.



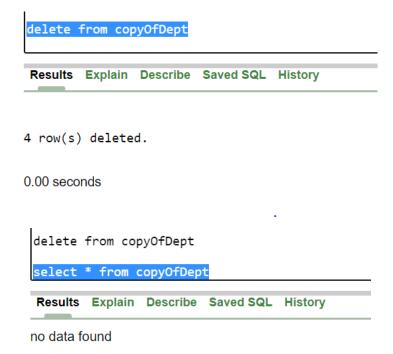


# 13. Create a table COPYOFDEPT as a copy of the table DEPT.



create table copyOfDept as select * from dept select * from copyOfDept					
Results Explain Des	cribe Saved SQL History				
DEPARTMENT_NAME	DEPARTMENT_NUMBER	MANAGER_SSN	MANAGER_START_DATE		
Administration	2	564	03-JAN-12		
Headquarter	1	678	16-DEC-14		
Finance	3	234	18-MAY-13		
IT	4	123	12-JUN-15		
4 rows returned in 0.05	seconds CSV Export				

# 14. Delete all the rows from COPYOF DEPT table.



#### 15. Remove COPYOF DEPT table.



# **Exercise-2:**

Exercise-2 deals with the constraints, so we are going to add constraint to the tables as described below:

# • Employee table:

no data found

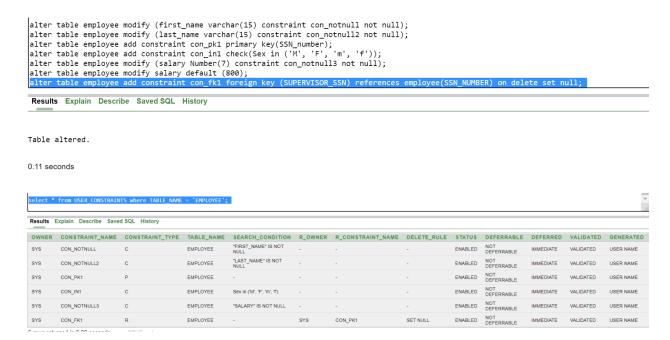
**Table Name: Employee** 

Attribute	Data Type	Constraint
First Name	Varchar (15)	Not Null
Mid Name	Char(2)	
Last Name	Varchar (15)	Not Null
SSN Number	Char (9)	Primary Key
Birthday	Date	
Address	Varchar (50)	
Sex	Char(1)	Sex In (M,F,m,f)
Salary	Number (7)	Default 800
Supervisor SSN	Char (9)	Foreign Key Employee (SSN)
		on delete set null
Department number	Number(5)	Foreign key to department
		number of department table on
		delete cascade

• We will alter the existing table using **alter** commands. But before, we check if there exists any constraint on the table.

select \* from USER\_CONSTRAINTS where TABLE\_NAME = 'EMPLOYEE';
Results Explain Describe Saved SQL History

There are no constraints on the table, so, we add the above mentioned constraints



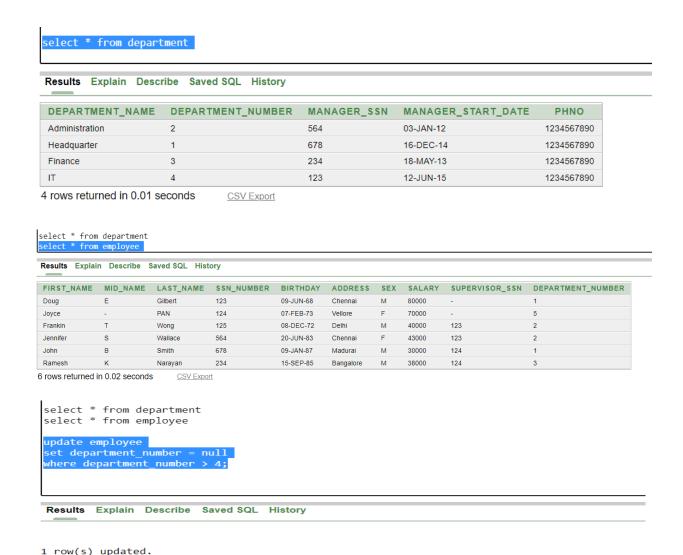
 While adding foreign key constraint in **DEPARTMENT\_NUMBER** column we get the following error, it is due to the primary key or unique key does not present in referenced table-column i.e., **department table DEPARTMENT NUMBER column**



 So, to make it work, we add primary key constraint to department table DEPARTMENT\_NUMBER column first then we add foreign key constraint in employee table DEPARTMENT\_NUMBER column.

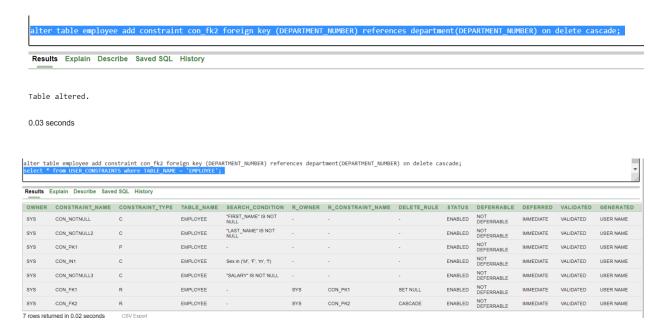


Again, we get another error regarding parent keys not found – this is due to the unmatched values in parent key column and foreign key column. So, we compare the values in both the tables employee and department and make an update to match the values in both primary key and foreign key column.



0.08 seconds

Now we alter table to see the changes



#### • <u>Department Table</u>

#### **Table Name: Department**

Attribute	Data type	Constraint
Department Name	Varchar(15)	Not Null
Department number	INT(5)	Primary key
Manager SSN	Char (9)	Foreign key-Employee (SSN)
		on delete set null
Manage start date	Date	

 We already applied primary key to DEPARTMENT\_NUMBER, now we alter table to add more constraints as described.





#### **Dept locations Table**

#### Table Name: Dept\_locations

Attribute	Data type	Constraint
Department Number	Number(5)	Department (dep no) onDelete
		Cascade
Department Location	Varchar (15)	

We do not have **dept\_locations** table, so we create table with constraints



0.18 seconds

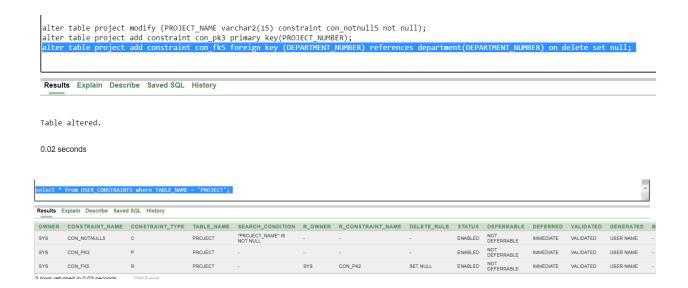


#### Project Table

#### Table Name: Project

Attribute	Data type	Constraint
Project Name	Varchar2(15)	Not Null
Project number	Number(5)	Primary key
Project Location	Varchar2(50)	
Department Number	Number(5)	Foreign Key –Department (dep no ) on delete set null

• We already have a Project Table from ex-1. Here we alter table to add constraints as described



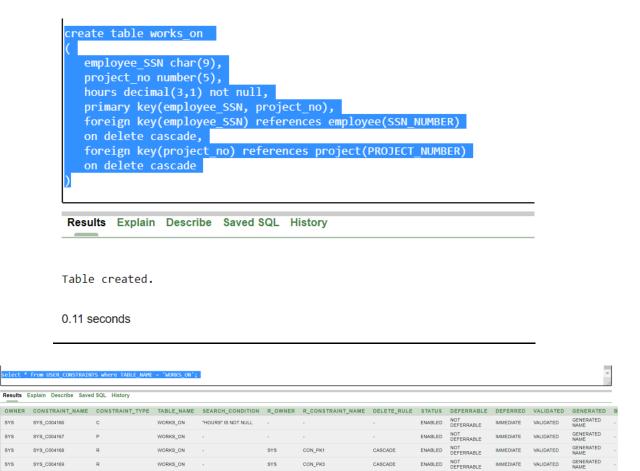
#### • Works on Table

#### Table Name: Works\_On

#### The combination of Employee SSN and Project Number must be a Primary Key

Attribute	Data type	Constraint
Employee SSN	Char (9)	Foreign Key
		Employee (SSN) on delete cascade
Project number	INT(5)	Foreign Key project ( Pnumber ) on
		delete cascade
Hours	Decimal (3,1)	Not null

We do not have Works\_on Table. So, we create table with described constraints.



#### • Dependent Table

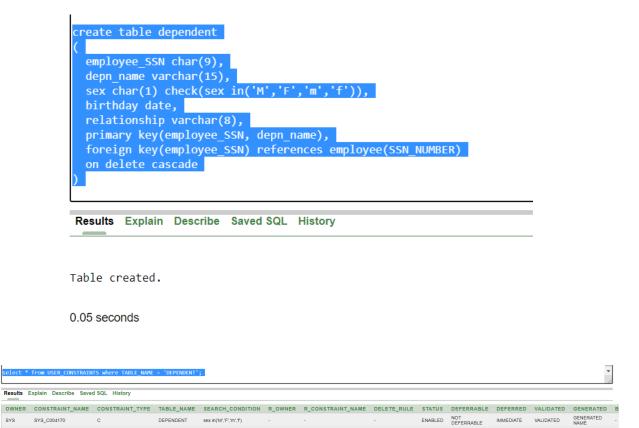
#### Name: Dependent

4 rows returned in 0.06 seconds CSV Export

The combination of Employee SSN and Dependent Name must be a Primary Key.

Attribute	Datatype	Constraint
Employee	Char (9)	Foreign Key- Employee (SSN) on Delete
		Cascade
Dependent Name	Varchar(15)	
Sex	Char(1)	Check Sex in (M,F,m,f)
Birthday	Date	
Relationship	Varchar(8)	

We also do not have dependent table. So, we create table with described constraints.



ENABLED NOT DEFERRABLE IMMEDIATE VALIDATED GENERATED NAME

ENABLED DEFERRABLE IMMEDIATE VALIDATED NAME

NAME

#### • Data insert for dept locations

3 rows returned in 0.01 seconds

# Data for table - Dept\_Locations

Dep No	D Location
1	Houston
1	Chicago
2	New York
2	San Francisco
3	Salt Lake City
4	Stafford
4	Bellaire
5	Sugarland
5	Houston

Since dept\_locations table is linked with foreign key to department table, we need to
insert some dummy data in department table first to avoid error inserting all the given data
to dept\_locations.



#### select \* from department

Results Explain Describe Saved SQL History

DEPARTMENT_NAME	DEPARTMENT_NUMBER	MANAGER_SSN	MANAGER_START_DATE
Finance	3	234	18-MAY-13
IT	4	123	12-JUN-15
Administration	2	564	03-JAN-12
Headquarter	1	678	16-DEC-14
Production	5	125	29-SEP-21

5 rows returned in 0.00 seconds

**CSV Export** 

```
insert into dept_locations values(1, 'Houston')
insert into dept_locations values(1, 'Chicago')
insert into dept_locations values(2, 'New York')
insert into dept_locations values(2, 'San Francisco')
insert into dept_locations values(3, 'Salt Lake City')
insert into dept_locations values(4, 'Stafford')
insert into dept_locations values(4, 'Bellaire')
insert into dept_locations values(5, 'Sugarland')
insert into dept_locations values(5, 'Houston')
Results Explain Describe Saved SQL History
```

1 row(s) inserted.

0.00 seconds

# select \* from dept\_locations

Results Explain Describe Saved SQL History

DEP_NO	DEP_LOC
1	Houston
1	Chicago
2	New York
2	San Francisco
3	Salt Lake City
4	Stafford
4	Bellaire
5	Sugarland
5	Houston

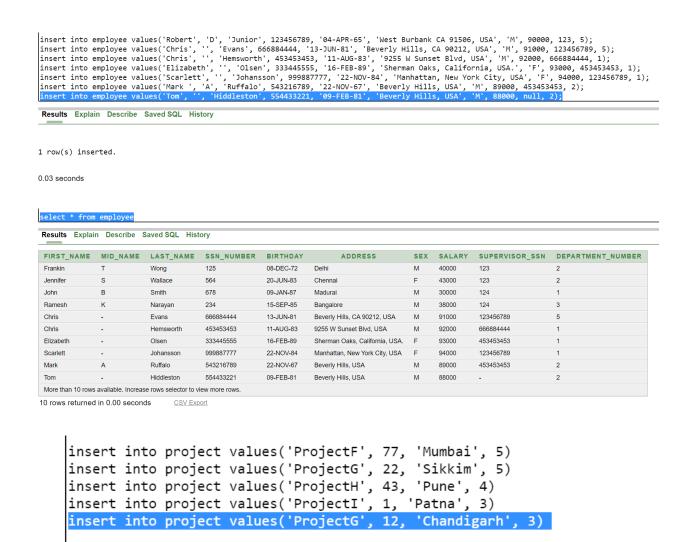
9 rows returned in 0.01 seconds CSV Export

## • Data insert for works on

# Data for Table - Works\_On

ESSN	Pno	Hours
123456789	3388	32.5
123456789	1945	7.5
666884444	3388	40.0
453453453	77	20.0
453453453	22	20.0
333445555	77	10.0
333445555	6688	10.0
333445555	43	35.0
333445555	22	28.5
999887777	1	11.5
999887777	12	13.0
543216789	22	17.0
554433221	1945	21.5

 Since works\_on ESSN is linked with foreign key to Employee(SSN) and Pno is linked with foreign key to Project(Pnumber) we must insert some dummy data to employee table and project table first to avoid error inserting above data.



Results Explain Describe Saved SQL History

1 row(s) inserted.

0.00 seconds

#### Results Explain Describe Saved SQL History

PROJECT_NAME	PROJECT_NUMBER	PROJECT_LOCATION	DEPARTMENT_NUMBER
ProjectA	3388	Delhi	1
ProjectB	1945	Hyderabad	1
ProjectC	6688	Chennai	2
ProjectD	2423	Chennai	2
ProjectE	7745	Bangalore	3
ProjectF	77	Mumbai	5
ProjectG	22	Sikkim	5
ProjectH	43	Pune	4
Projectl	1	Patna	3
ProjectG	12	Chandigarh	3

10 rows returned in 0.00 seconds

**CSV Export** 

```
insert into works_on values(123456789, 3388, 32.5) insert into works_on values(123456789, 1945, 7.5) insert into works_on values(666884444, 3388, 40.0) insert into works_on values(453453453, 77, 20.0) insert into works_on values(453453453, 22, 20.0) insert into works_on values(333445555, 77, 10.0) insert into works_on values(333445555, 6688, 10.0) insert into works_on values(333445555, 43, 35.0) insert into works_on values(333445555, 22, 28.5) insert into works_on values(999887777, 1, 11.5) insert into works_on values(999887777, 12, 13.0) insert into works_on values(543216789, 22, 17.0) insert into works_on values(554433221, 1945, 21.5)
```

Results Explain Describe Saved SQL History

1 row(s) inserted.

0.00 seconds

# select \* from works\_on

# Results Explain Describe Saved SQL History

EMPLOYEE_SSN	PROJECT_NO	HOURS
123456789	3388	32.5
123456789	1945	7.5
666884444	3388	40
453453453	77	20
453453453	22	20
999887777	12	13
543216789	22	17
554433221	1945	21.5
333445555	77	10
333445555	6688	10
333445555	43	35
333445555	22	28.5
999887777	1	11.5

13 rows returned in 0.00 seconds

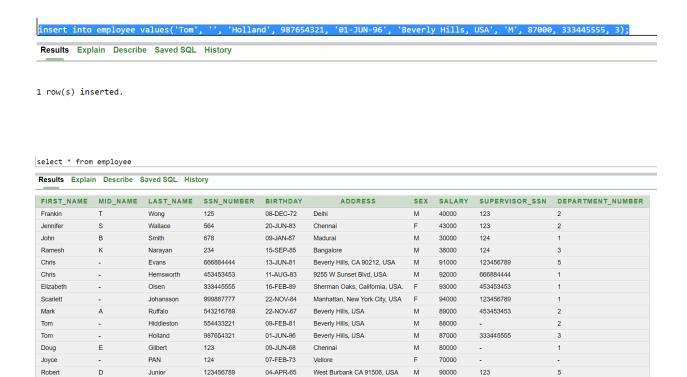
**CSV** Export

# • <u>Data insert for Dependent</u>

# **Data for Table - Dependent**

ESSN	Dependent_name	Sex	Bdate	Relationship
333445555	Alice	F	05-Apr-76	Daughter
333445555	Theodore	M	25-Oct-73	Son
333445555	Joy	F	03-May-48	Spouse
987654321	Abner	M	29-Feb-32	Spouse
123456789	Alice	F	31-Dec-78	Daughter
123456789	Elizabeth	F	05-may-57	Spouse

 Since Dependent table is linked with foreign key to Employee(SSN) we need to insert dummy data to employee first to avoid errors while inserting above data



```
insert into dependent values(333445555, 'Alice', 'F', '05-Apr-76', 'Daughter') insert into dependent values(333445555, 'Theodore', 'M', '25-Oct-73', 'Son') insert into dependent values(333445555, 'Joy', 'F', '03-May-48', 'Spouse') insert into dependent values(987654321, 'Abner', 'M', '29-Feb-32', 'Spouse') insert into dependent values(123456789, 'Alice', 'F', '31-Dec-78', 'Daughter') insert into dependent values(123456789, 'Elizabeth', 'F', '05-may-57', 'Spouse')
```

Results Explain Describe Saved SQL History

CSV Export

1 row(s) inserted.

14 rows returned in 0.00 seconds

0.00 seconds

#### select \* from dependent

Results Explain Describe Saved SQL History

EMPLOYEE_SSN	DEPN_NAME	SEX	BIRTHDAY	RELATIONSHIP
333445555	Alice	F	05-APR-76	Daughter
333445555	Theodore	M	25-OCT-73	Son
333445555	Joy	F	03-MAY-48	Spouse
987654321	Abner	M	29-FEB-32	Spouse
123456789	Alice	F	31-DEC-78	Daughter
123456789	Elizabeth	F	05-MAY-57	Spouse

6 rows returned in 0.00 seconds CSV Export

Execute the following Query on the Db to display and discuss the integrity constraints violated by any of the following operations

**1.** Insert ('Robert', 'F', 'Scott', '943775543', '21-JUN-42', '2365 Newcastle Rd, Bellaire, TX', M, 58000, '888665555', 1) into EMPLOYEE.

insert into employee values('Robert	t', 'F', 'Scott', '943775543', '21-JUN-42', '2365 Newcastle Rd, Bellaire, TX', 'M', 58000, '888665555', 1)
Results Explain Describe Saved SQL	History
	ORA-02291: integrity constraint (LAB2.CON_FK1) violated - parent key not found

• Here we get an integrity constraint violated – parent key not found error. This is due to the referencing column does not find the keys in the parent column, in other words primary key column not having a value referenced by foreign key column. In this case the value '888665555' referenced by SUPERVISOR\_SSN column is not present in the primary key column SSN\_NUMBER as we can see from table below.



 Thus, it avoids inserting values into the referenced column that is not present in the parent column. 2. Insert ('677678989', null, '40.0') into WORKS ON.

Results Explain Describe Saved SQL History

ORA-01400: cannot insert NULL into ("LAB2"."WORKS\_ON"."PROJECT\_NO")

- Error statement: cannot insert NULL into("WORKS\_ON"."PROJECT\_NO") which indicates that PROJECT\_NO Column of WORKS\_ON table is a NOT NULL column that does not accepts null values.
- Although we have not defined PROJECT\_NO column as NOT NULL column, it is NOT NULL due to the **primary key** associated with the PROJECT\_NO column.
- Here in the above insert we are trying to insert null value into that column which violates the Not Null constraint on this table.
- Thus, it avoids inserting null into the primary key column which does not allow nulls.
- 3. Insert ( '453453453', 'John', M, '12-DEC-60', 'SPOUSE' ) into DEPENDENT

insert into dependent values(453453453, 'John', 'M', '12-DEC-60', 'SPOUSE')

Results Explain Describe Saved SQL History

1 row(s) inserted.

0.02 seconds

Results	Explain	Describe	Saved SQL	History

EMPLOYEE_SSN	DEPN_NAME	SEX	BIRTHDAY	RELATIONSHIP
333445555	Alice	F	05-APR-76	Daughter
333445555	Theodore	М	25-OCT-73	Son
333445555	Joy	F	03-MAY-48	Spouse
987654321	Abner	M	29-FEB-32	Spouse
123456789	Alice	F	31-DEC-78	Daughter
123456789	Elizabeth	F	05-MAY-57	Spouse
453453453	John	М	12-DEC-60	SPOUSE

7 rows returned in 0.00 seconds

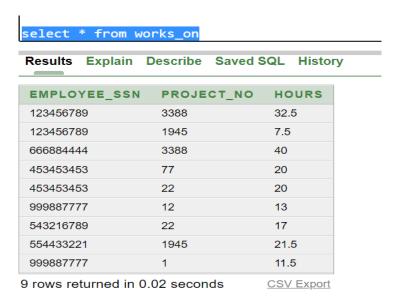
**CSV** Export

- Data inserted with a success thus it does not violate any integrity constraints.
- 4. Delete the WORKS\_ON tuples with ESSN= '333445555'.

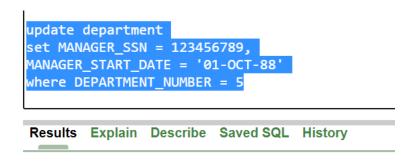


4 row(s) deleted.

0.01 seconds



- Data deleted with a success 4 tuples related to SSN\_NUMBER were deleted this does not violate any integrity constraints.
- **5.** Modify the MGRSSN and MGRSTARTDATE of the DEPARTMENT tuple with DNUMBER=5 to '123456789' and '01-OCT-88', respectively



1 row(s) updated.

0.00 seconds

select * from depart						
Results Explain Describe Saved SQL History						
DEPARTMENT_NAME	DEPARTMENT_NUMBER	MANAGER_SSN	MANAGER_START_DATE			
Finance	3	234	18-MAY-13			
IT	4	123	12-JUN-15			
Administration	2	564	03-JAN-12			
Headquarter	1	678	16-DEC-14			
Production	5	123456789	01-OCT-88			

• The information is updated successfully – Thus no integrity constraint violated.

#### Alter the tables to

- 1. Add Foreign Keys using Alter Table [if not done earlier].
  - This activity is done earlier.
  - All the foreign keys were added using alter table command only in the existing table.
- 2. Drop Foreign key defined on SuperSSN and add it using Alter table command.
  - SuperSSN is associated with Employee table.
  - First, we find the foreign key constraint name applied to SuperSSN column



• Then we drop the constraint.

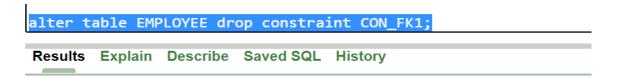
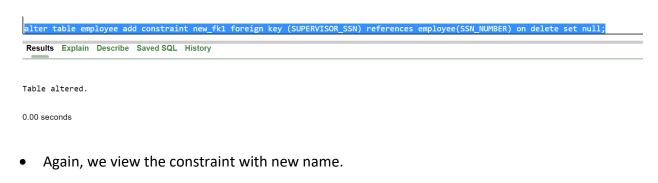


Table dropped.

0.50 seconds

• We add the constraint again using alter command.

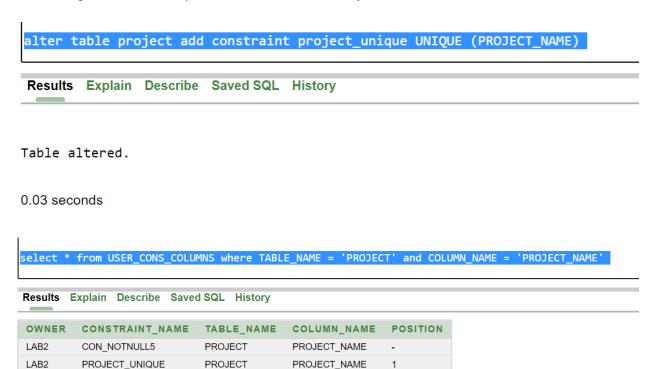




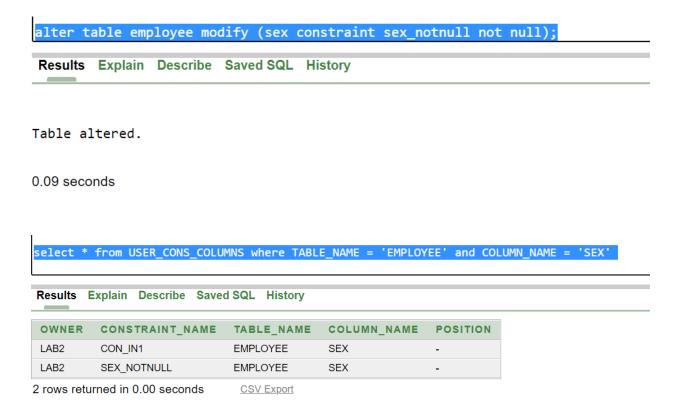
- **3.** Make name of Project as Unique and sex of employee as not null.
  - Adding constraint Unique to name column of Project table:

CSV Export

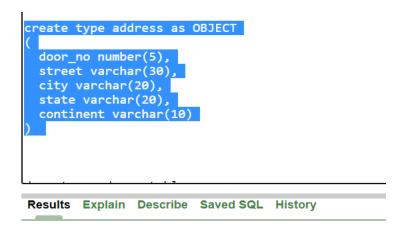
2 rows returned in 0.00 seconds



• Add not null constraint to sex column of employee table:



- **4.** Make Address as a new type containing door no, street, city, State, Continent.
  - Creating an address type object containing door\_no, street, city, state, and continent



Type created.

0.08 seconds

Now we alter table to add column of this type object

```
create type address as OBJECT
(
   door_no number(5),
   street varchar(30),
   city varchar(20),
   state varchar(20),
   continent varchar(10)
)

alter table employee add ADDRESS_TYPE address;

Results Explain Describe Saved SQL History

Table altered.

0.16 seconds
```

Now we update one row to map some value to existing row

```
update employee e
set e.ADDRESS_TYPE = address(1, 'abc', 'vellore', 'tamilnadu', 'asia')
where e.SSN_NUMBER = 125

Results Explain Describe Saved SQL History

1 row(s) updated.

0.07 seconds
```

• Since we have an object column in our table, we have to write complex select statement with dot(.) operator to view values or we can create a view and call view directly to list all columns.

create view employee\_with\_object(first\_name, mid\_name, last\_name, ssn\_number, address, sex, salary, sup\_ssn, dept\_no, door\_no, street, city, state, continent) as select e.first\_name, e.mid\_name, e.last\_name, e.ssn\_number, e.address, e.sex, e.salary, e.supervisor\_ssn, e.department\_number, e.address\_type.door\_no, e.address\_type.street, e.address\_type.city, e.address\_type.state, e.address\_type.continent from employee e

Results Explain Describe Saved SQL History

View created.

0.07 seconds



**5.** Make salary of employee to accept real values

alter table employee modify salary Real;

Results Explain Describe Saved SQL History

Table altered.

0.05 seconds

• Here the REAL is an alias for FLOAT data type

select TABLE\_NAME, COLUMN\_NAME, DATA\_TYPE, DATA\_LENGTH, DATA\_PRECISION
from ALL\_TAB\_COLUMNS where TABLE\_NAME = 'EMPLOYEE' and COLUMN\_NAME = 'SALARY' and OWNER = 'LAB2'

Results Explain Describe Saved SQL History

TABLE\_NAME COLUMN\_NAME DATA\_TYPE DATA\_LENGTH DATA\_PRECISION
EMPLOYEE SALARY FLOAT 22 63

1 rows returned in 0.01 seconds CSV Export