

# CIS5355 Examination 2

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## Question-1:

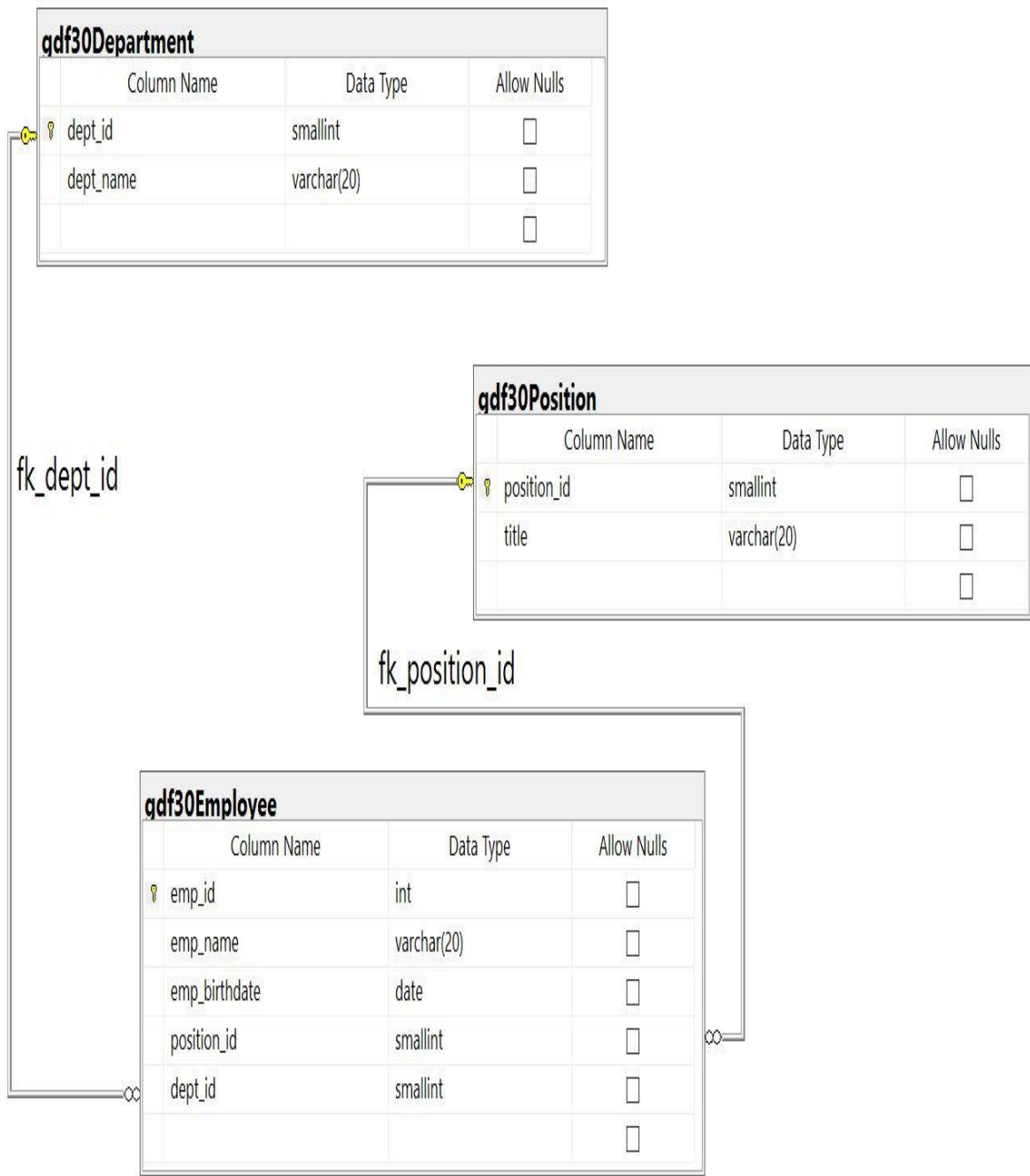
```
USE Examination2
GO
```

```
/*Question 1*/
```

```
CREATE TABLE gdf30Department
(
    dept_id          SMALLINT          NOT NULL,
    dept_name        VARCHAR(20)       NOT NULL,
    CONSTRAINT pk_dept_id PRIMARY KEY(dept_id),
    CONSTRAINT chk_dept_id CHECK(dept_id BETWEEN 1 AND 20),
    CONSTRAINT chk_dept_name_upper CHECK(dept_name NOT LIKE '%[^A-Z]%')
)

CREATE TABLE gdf30Position
(
    position_id      SMALLINT          NOT NULL,
    title            VARCHAR(20)       NOT NULL,
    CONSTRAINT pk_position_id PRIMARY KEY(position_id),
    CONSTRAINT chk_position_id CHECK(position_id BETWEEN 1 AND
10),
    CONSTRAINT chk_title_upper CHECK(title NOT LIKE '%[^A-Z]%')
)

CREATE TABLE gdf30Employee
(
    emp_id           INTEGER           NOT NULL,
    emp_name         VARCHAR(20)       NOT NULL,
    emp_birthdate    DATE              NOT NULL DEFAULT(GETDATE()),
    position_id      SMALLINT          NOT NULL,
    dept_id          SMALLINT          NOT NULL,
    CONSTRAINT pk_emp_id PRIMARY KEY(emp_id),
    CONSTRAINT fk_position_id FOREIGN KEY(position_id)
REFERENCES
gdf30Position(position_id),
    CONSTRAINT fk_dept_id FOREIGN KEY(dept_id)
REFERENCES
gdf30Department(dept_id),
    CONSTRAINT chk_emp_id CHECK(emp_id BETWEEN 100 AND
9999),
    CONSTRAINT chk_emp_birthdate CHECK(emp_birthdate > '01-Jan-1940')
)
```



## Question-2:

```
/*Question 2*/
```

```
/*gdf30Department Insertion of Values*/
```

```
INSERT INTO gdf30Department(dept_id,dept_name)
VALUES(1, 'Administration')
```

```
INSERT INTO gdf30Department(dept_id,dept_name)
VALUES(2, 'Finance')
```

```
INSERT INTO gdf30Department(dept_id,dept_name)
VALUES(3, 'IT')
```

```
/*gdf30Position Insertion of Values*/
```

```
INSERT INTO gdf30Position(position_id,title)
VALUES(1, 'Accountant')
```

```
INSERT INTO gdf30Position(position_id,title)
VALUES(2, 'CEO')
```

```
INSERT INTO gdf30Position(position_id,title)
VALUES(3, 'SeniorProgrammer')
```

```
INSERT INTO gdf30Position(position_id,title)
VALUES(4, 'Programmer')
```

```
/*gdf30Employee Insertion of Values*/
```

```
INSERT INTO gdf30Employee(emp_id,emp_name,emp_birthdate,position_id,dept_id)
VALUES(1000, 'Elaine Chen', '19-Feb-1980', 2, 1)
```

```
INSERT INTO gdf30Employee(emp_id,emp_name,emp_birthdate,position_id,dept_id)
VALUES(1001, 'Robert Rodriguez', '12-Mar-1999', 1, 2)
```

```
INSERT INTO gdf30Employee(emp_id,emp_name,emp_birthdate,position_id,dept_id)
VALUES(1002, 'Mikala Davis', '07-Jun-1990', 3, 3)
```

```
INSERT INTO gdf30Employee(emp_id,emp_name,emp_birthdate,position_id,dept_id)
VALUES(1003, 'Jordan Jordan', '17-Apr-2003', 4, 3)
```

(1 row affected)

(1 row affected)

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Completion time: 2022-03-29T20:30:33.8988290-05:00

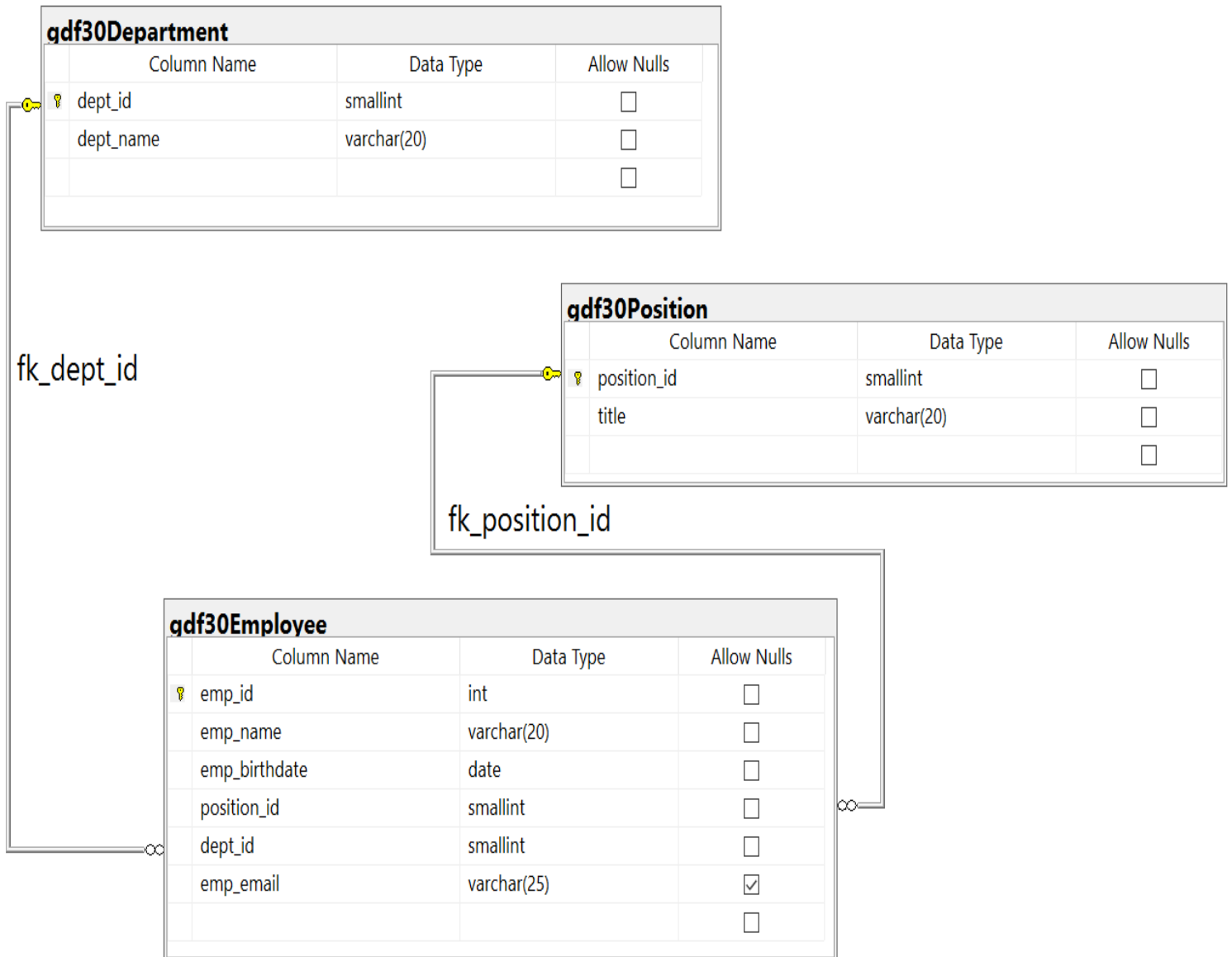
100 % ▾ ◀

✔ Query executed successfully.

### Question-3:

/\*Question 3\*/

```
ALTER TABLE gdf30Employee  
ADD emp_email VARCHAR(25)
```



#### Question-4:

```
/*Question 4*/  
UPDATE gdf30Position  
SET title = 'SeniorProgrammer'  
WHERE title = 'Programmer'
```

100 %

Messages

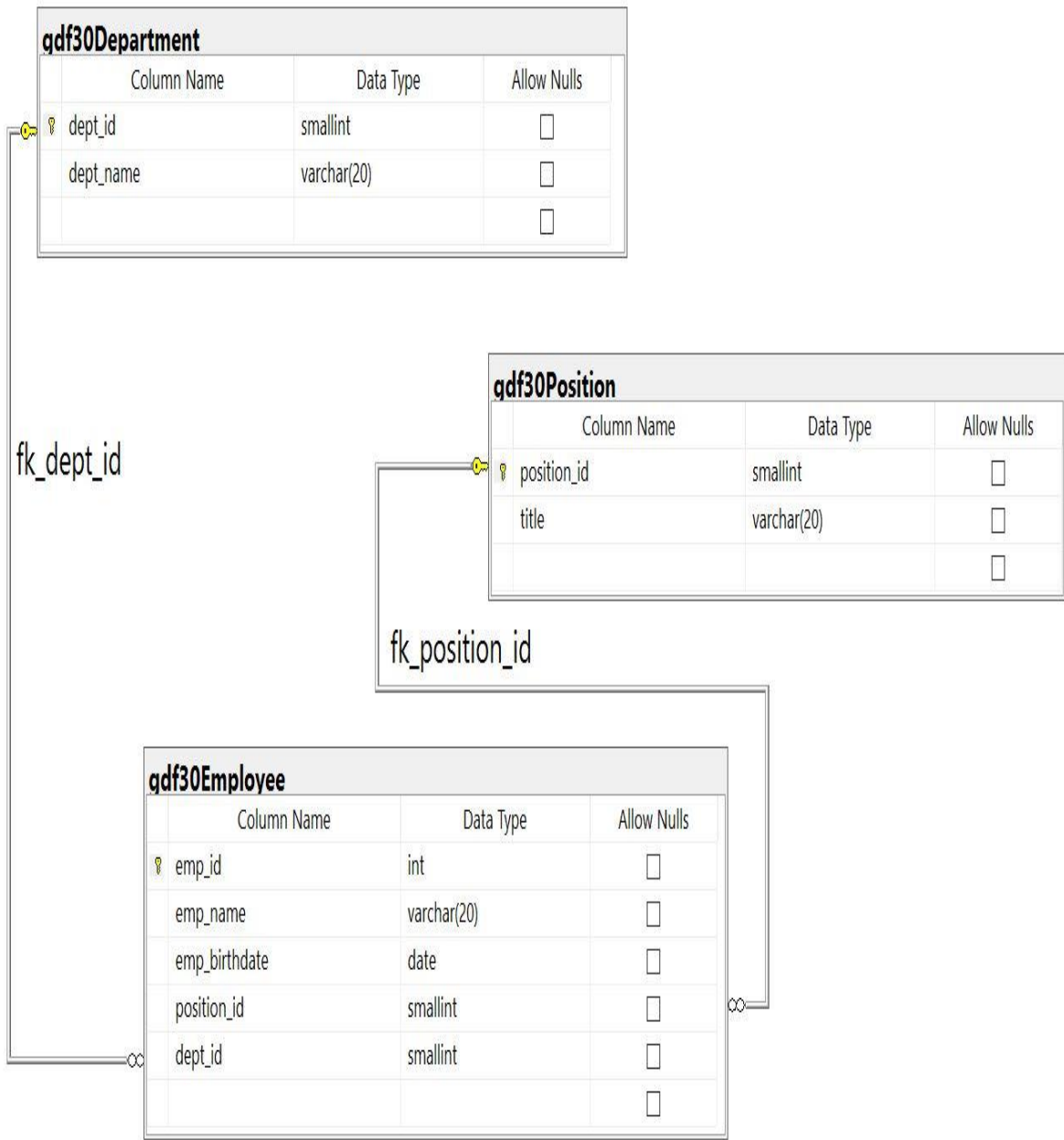
(1 row affected)

Completion time: 2022-03-29T20:36:50.2913777-05:00

100 %

Results Messages

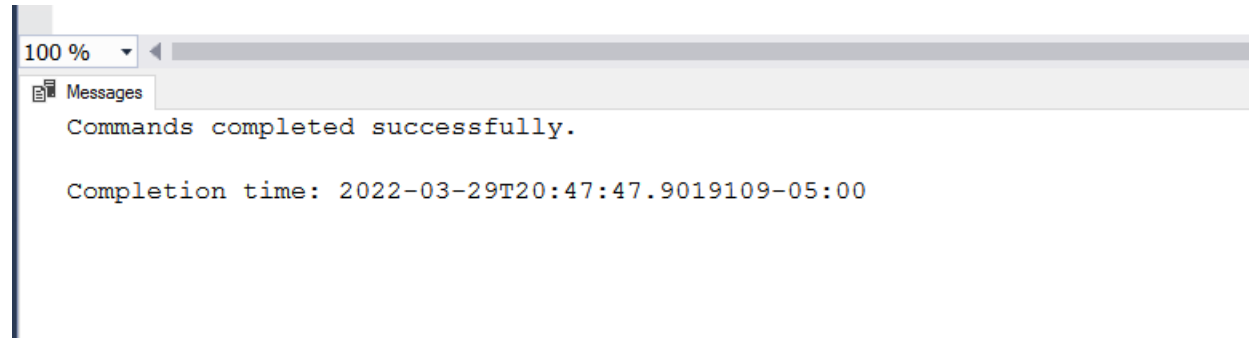
	emp_id	emp_name	emp_birthdate	position_id	dept_id	emp_email
1	1000	Elaine Chen	1980-02-19	2	1	NULL
2	1001	Robert Rodriguez	1999-03-12	1	2	NULL
3	1002	Mikala Davis	1990-06-07	3	3	NULL
4	1003	Jordan Jordan	2003-04-17	4	3	NULL



### Question-5:

```
ALTER TABLE gdf30Employee  
DROP CONSTRAINT chk_emp_birthdate
```

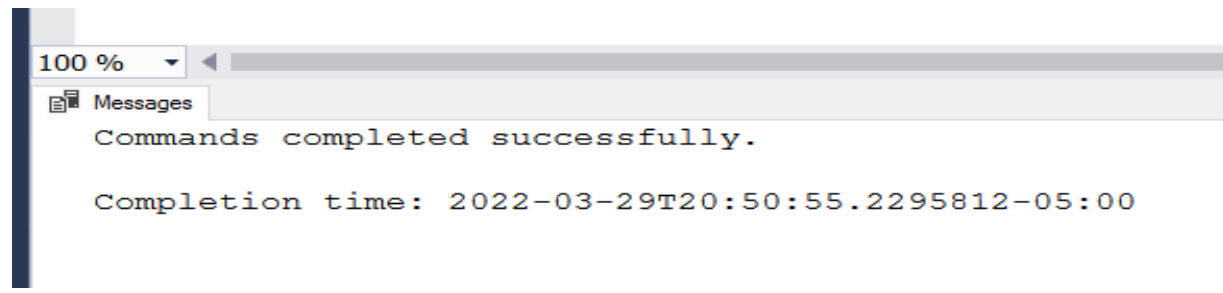
```
ALTER TABLE gdf30Employee  
DROP COLUMN emp_birthdate
```





### Question-6:

**DROP TABLE** gdf30Employee



gdf30Department			
	Column Name	Data Type	Allow Nulls
	dept_id	smallint	<input type="checkbox"/>
	dept_name	varchar(20)	<input type="checkbox"/>
			<input type="checkbox"/>

fk\_dept\_id

gdf30Position			
	Column Name	Data Type	Allow Nulls
	position_id	smallint	<input type="checkbox"/>
	title	varchar(20)	<input type="checkbox"/>
			<input type="checkbox"/>

fk\_position\_id

**Question 7:**

2		
3	Row Labels ▾	Sum of SALE_UNITS
4	CA	26
5	SW	26
6	CO	7
7	NW	7
8	GA	18
9	SE	18
10	NJ	8
11	NE	8
12	NY	5
13	NE	5
14	TN	28
15	SE	28
16	Grand Total	92
17		

**7)a)** Grand Total: 92

**7)b)** TN, SE is where 28 units were sold

**7)c)** total Number of Units Sold in SE were 28

