

NEERAJ KUMAR REDDY PANTA  
SHEFALIKA SHAILENDRA UPADHYAY  
10<sup>TH</sup> MARCH 2022

#Question 1

36/40

Excellent

```
3
4 CREATE TABLE nkrpssuJob
5 (
6     job_code          SMALLINT          NOT NULL,
7     job_description    VARCHAR(25)       NOT NULL,
8     job_chg_hour       NUMERIC(7,2)      NOT NULL,
9     job_last_update    DATE              NOT NULL    DEFAULT(GETDATE()),
10    CONSTRAINT pk_job_code PRIMARY KEY(job_code),
11    CONSTRAINT chkuniq_job_code UNIQUE(job_code),
12    CONSTRAINT chk_job_code CHECK(job_code BETWEEN 100 AND 999),
13    CONSTRAINT chk_job_description CHECK(job_description NOT LIKE '%[^A-Z]'),
14    CONSTRAINT chk_job_chg_hour CHECK(job_chg_hour BETWEEN 10.00 AND 999.99),
15    CONSTRAINT chk_job_last_update CHECK(FORMAT(job_last_update, 'DD-Mon-YY') LIKE
16        '[0-3][0-9]-[ADFJMOASN][aceopu][bcglnprtv]-[1-2][0-9]')
17 )
```

Do not need this. Of Job\_code is PK, it is already unique

Commands completed successfully.

Completion time: 2022-03-10T10:02:11.3100527-06:00

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```
19 CREATE TABLE nkrpssuEmployee
20 (
21     emp_num          SMALLINT          NOT NULL,
22     emp_lname         VARCHAR(15)       NOT NULL,
23     emp_fname         VARCHAR(15)       NOT NULL,
24     emp_initial       CHAR(1)           NULL,
25     emp_hiredate      DATE              NOT NULL    DEFAULT(GETDATE()),
26     job_code          SMALLINT          NOT NULL,
27     emp_years         SMALLINT          NOT NULL,
28     CONSTRAINT pk_emp1_num PRIMARY KEY(emp_num),
29     CONSTRAINT fk_job_code FOREIGN KEY(job_code) REFERENCES nkrpssuJob(job_code),
30 CONSTRAINT chk_unq_emp_num UNIQUE(emp_num),
31     CONSTRAINT chk_emp_num CHECK(emp_num BETWEEN 100 AND 999),
32     CONSTRAINT chk_upper_emp_lname CHECK(emp_lname NOT LIKE '%[^A-Z]'),
33     CONSTRAINT chk_upper_emp_fname CHECK(emp_fname NOT LIKE '%[^A-Z]'),
34     CONSTRAINT chk_upper_emp_initial CHECK(emp_initial NOT LIKE '%[^A-Z]'),
35     CONSTRAINT chk_emp_hiredate CHECK(FORMAT(emp_hiredate, 'DD-Mon-YY') LIKE
36     '[0-3][0-9]-[ADFJMONS][aceopu][bcglnprrty]-[1-2][0-9]'),
37     CONSTRAINT chk_emp_years CHECK(emp_years NOT LIKE '%[^0-9]'),
38     CONSTRAINT check_range_emp_years CHECK(emp_years BETWEEN 00 AND 99),
39 )
```

Commands completed successfully.

Completion time: 2022-03-10T10:03:30.7479667-06:00

missing constraint to check for hire date to be after  
January 1, 1988 -1

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```
37  
38 CREATE TABLE nkrpssuProject  
39 (  
40     proj_num     SMALLINT     NOT NULL,  
41     proj_name     VARCHAR(15)  NOT NULL,  
42     proj_value    NUMERIC(11,2) NOT NULL,  
43     proj_balance  NUMERIC(11,2) NOT NULL, ✓  
44     emp_num       SMALLINT     NOT NULL,  
45     CONSTRAINT pk_proje_num     PRIMARY KEY (proj_num),  
46     CONSTRAINT fk_emp_num       FOREIGN KEY(emp_num) REFERENCES nkrpssuEmployee(emp_num),  
47     CONSTRAINT chk_unq_proj_num UNIQUE(proj_num),  
48     CONSTRAINT chk_range_proj_num CHECK(proj_num BETWEEN 10 and 99),  
49     CONSTRAINT chk_upper_proj_name CHECK(proj_name NOT LIKE '%[^A-Z]%),  
50     CONSTRAINT chk_greater_proj_value CHECK(proj_value>0.00),  
51     CONSTRAINT chk_greater_proj_balance CHECK(proj_balance>=0.00),  
52     CONSTRAINT chk_btwn_emp_num CHECK(emp_num BETWEEN 100 AND 999),  
53     CONSTRAINT chk_value_emp_num CHECK(emp_num NOT LIKE '%[^0-9]%)  
54 )  
55
```

150 %

Messages

Commands completed successfully.

Completion time: 2022-03-09T15:37:21.8886152-06:00



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```
59  
60 CREATE TABLE nkrpssuAssignment  
61 (  
62     Assign_num      SMALLINT      NOT NULL,  
63     Assign_date      DATE          NOT NULL    DEFAULT(GETDATE()),  
64     proj_num         SMALLINT      NOT NULL,  
65     emp_num          SMALLINT      NOT NULL,  
66     assign_job        SMALLINT      NULL,  
67     assign_chg_hour  NUMERIC(7,2)  NOT NULL,  
68     assign_hours      NUMERIC(5,1)  NOT NULL,  
69     assign_charge     NUMERIC(7,2)  NOT NULL,  
70     CONSTRAINT pk_Assignm_num      PRIMARY KEY(Assign_num),  
71     CONSTRAINT fky_proj_num        FOREIGN KEY(proj_num) REFERENCES nkrpssuProject(proj_num),  
72     CONSTRAINT fk_empl_num         FOREIGN KEY(emp_num) REFERENCES nkrpssuEmployee(emp_num),  
73     CONSTRAINT chkuni_Assign_num  UNIQUE (Assign_num),  
74     CONSTRAINT chek_Assign_num      CHECK(Assign_num between 1000 and 9999),  
75     CONSTRAINT checkk_Assign_date CHECK(FORMAT(Assign_date, 'DD Mon YY') LIKE  
76                                     '[0-3][0-9]-[ADFJMOSEN][aceopu][bcglnprtvy]-[1-2][0-9]'),  
77     CONSTRAINT chk_proj_num        CHECK(proj_num BETWEEN 10 and 99),  
78     CONSTRAINT chk_emplo_num       CHECK(emp_num BETWEEN 100 AND 999)  
79 )
```

No such requirement in data dictionary -1

Commands completed successfully.

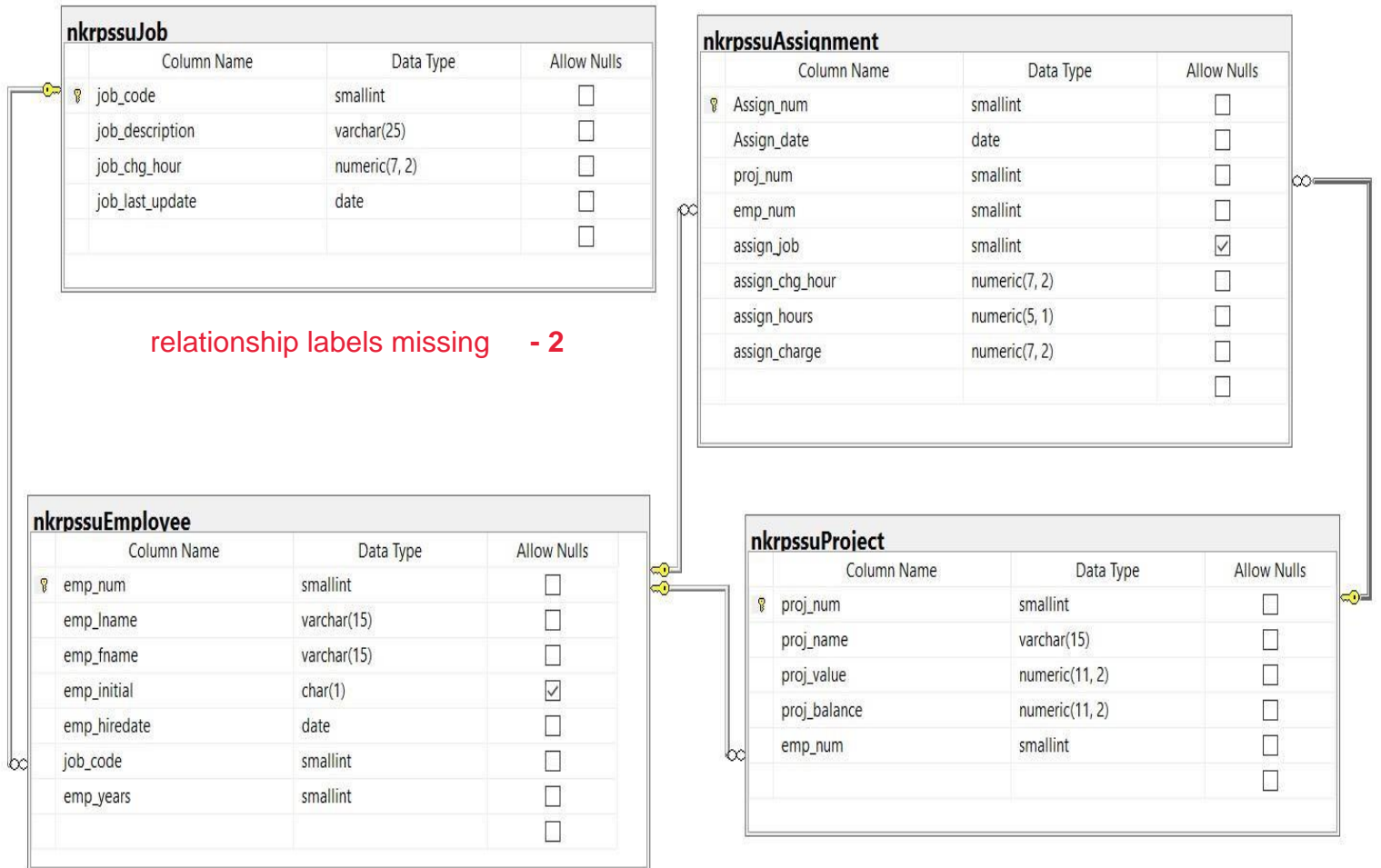
Missing constraint - Assign\_date to be after  
Jan 1, 1988 -1

Completion time: 2022-03-10T10:10:20.5032782-06:00

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#QUESTION 2


C:\SQL\CIS3325.As...g2022 - Diagram\_0\* X assignment6.sql - ... (TXSTATE\yjn6 (81))\* SQLQuery2.sql - Cl... (TXSTATE\yjn6 (70))\*



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#QUESTION 3

```
74 )  
75 |  
76 SELECT emp_num, emp_lname, emp_fname, emp_initial, emp_hiredate, job_code, emp_years  
77 INTO nkrpssuEmployee_2  
78 FROM nkrpssuEmployee
```



150 %

Messages

(0 rows affected)

Completion time: 2022-03-09T16:10:46.6490825-06:00

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```
1  
2 ALTER TABLE nkrpssuEmployee_2  
3 ADD emp_pct NUMERIC(6,1) NOT NULL (5,1) since the max value is 100.0 -0.5  
4 CONSTRAINT chk_emp_pct CHECK(emp_pct between 0.0 and 100.0)
```

100 %

Messages

Commands completed successfully.

You could have added both attributes and constraints in a single Alter Table statement. This will be expected on the exam.

Completion time: 2022-03-09T16:18:16.0180138-06:00

```
5  
6 ALTER TABLE nkrpssuEmployee_2  
7 ADD proj_num SMALLINT NOT NULL Instructions specified proj_num to be a fixed 3-character  
8 CONSTRAINT chek_proj_num CHECK(proj_num NOT LIKE '%[^0-9]%') field that must contain only digits 0-9 - 2
```

100 %

Messages

Commands completed successfully.

Completion time: 2022-03-09T16:21:31.5800794-06:00

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C:\SSQL\CIS3325.As...g2022 - Diagram\_4\* X C:\SSQL\CIS3325.As...g2022 - Diagram\_3 C:\SSQL\CIS3325.As...g2022 - Diagram\_2 C:\SSQL\CIS3325.As...g2022 - Diagram\_1

nkrpssuEmployee 2			
	Column Name	Data Type	Allow Nulls
	emp_num	smallint	<input type="checkbox"/>
	emp_lname	varchar(15)	<input type="checkbox"/>
	emp_fname	varchar(15)	<input type="checkbox"/>
	emp_initial	char(1)	<input checked="" type="checkbox"/>
	emp_hiredate	date	<input type="checkbox"/>
	job_code	smallint	<input type="checkbox"/>
	emp_years	smallint	<input type="checkbox"/>
	emp_pct	numeric(6, 1)	<input type="checkbox"/>
	proj_num	<del>smallint</del> char(3)	<input type="checkbox"/>
			<input type="checkbox"/>





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```
10 ALTER TABLE nkrpssuEmployee_2 ✓  
11 DROP COLUMN emp_initial, COLUMN emp_hiredate
```

100 %

Messages

Commands completed successfully.

Completion time: 2022-03-09T16:31:09.6778652-06:00

CISSQL\CIS3325.As...022 - nkrpssu\_emp2 ✕ CISSQL\CIS3325.As...g2022 - Diagram\_3 SQLQuery2.sql - CI...(TXSTATE\yjn6 (70))\* CISSQL\CIS3325.As...g2022 - Diagram\_2

nkrpssuEmployee 2			
Column Name	Data Type	Allow Nulls	
emp_num	smallint	<input type="checkbox"/>	
emp_lname	varchar(15)	<input type="checkbox"/>	
emp_fname	varchar(15)	<input type="checkbox"/>	
job_code	smallint	<input type="checkbox"/>	
emp_years	smallint	<input type="checkbox"/>	
emp_pct	numeric(6, 1)	<input type="checkbox"/>	
proj_num	smallint	<input type="checkbox"/>	
			No DDL provided for this change and associated check constraint -2

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#QUESTION 4

```
99  
100 DROP TABLE nkrpssuAssignment  
101 DROP TABLE nkrpssuProject ✓  
102 DROP TABLE nkrpssuEmployee  
103 DROP TABLE nkrpssuJob  
104 DROP TABLE nkrpssuEmployee_2  
105
```

150 %

Messages

Commands completed successfully.

Completion time: 2022-03-09T17:11:33.8465593-06:00

### #QUESTION 5

```
--Code to remove all tables that contain label nkrpssu
/*
DROP TABLE nkrpssuAssignment
DROP TABLE nkrpssuProject
DROP TABLE nkrpssuEmployee
DROP TABLE nkrpssuJob
DROP TABLE nkrpssuEmployee_2
*/
```

```
CREATE TABLE nkrpssuJob
(
    job_code                SMALLINT                NOT NULL,
    job_description          VARCHAR(25)             NOT NULL,
    job_chg_hour             NUMERIC(7,2)            NOT NULL,
    job_last_update          DATE                    NOT NULL        DEFAULT(GETDATE()),
    CONSTRAINT pk_job_code   PRIMARY KEY(job_code),
    CONSTRAINT chkuniq_job_code UNIQUE(job_code),
    CONSTRAINT chk_job_code  CHECK(job_code BETWEEN 100 AND 999),
    CONSTRAINT chk_job_description CHECK(job_description NOT LIKE '%[^A-Z]%'),
    CONSTRAINT chk_job_chg_hour CHECK(job_chg_hour BETWEEN 10.00 AND 999.99),
    CONSTRAINT chk_job_last_update CHECK(FORMAT(job_last_update, 'DD-Mon-YY') LIKE
                                                '[0-3][0-9]-[ADFJMSN][aceou][bcglnpqrtvy]-[1-2][0-
9]')
)
```

```
CREATE TABLE nkrpssuEmployee
(
    emp_num                SMALLINT                NOT NULL,
    emp_lname              VARCHAR(15)              NOT NULL,
    emp_fname              VARCHAR(15)              NOT NULL,
    emp_initial            CHAR(1)                  NULL,
    emp_hiredate            DATE                    NOT NULL    DEFAULT(GETDATE()),
    job_code               SMALLINT                NOT NULL,
    emp_years              SMALLINT                NOT NULL,
    CONSTRAINT pk_emp1_num PRIMARY KEY(emp_num),
    CONSTRAINT fk_job_code FOREIGN KEY(job_code) REFERENCES nkrpssuJob(job_code),
    CONSTRAINT chk_unq_emp_num UNIQUE(emp_num),
    CONSTRAINT chk_emp_num CHECK(emp_num BETWEEN 100 AND 999),
    CONSTRAINT chk_upper_emp_lname CHECK(emp_lname NOT LIKE '%[^A-Z]%'),
    CONSTRAINT chk_upper_emp_fname CHECK(emp_fname NOT LIKE '%[^A-Z]%'),
    CONSTRAINT chk_upper_emp_initial CHECK(emp_initial NOT LIKE '%[^A-Z]%'),
    CONSTRAINT chk_emp_hiredate CHECK(FORMAT(emp_hiredate, 'DD-Mon-YY') LIKE
                                                '[0-3][0-9]-[ADFJMSOJN][aceou][bcglnpqrtvy]-[1-2][0-9]'),
    CONSTRAINT chk_emp_years CHECK(emp_years NOT LIKE '%[^0-9]%'),
    CONSTRAINT check_range_emp_years CHECK(emp_years BETWEEN 00 AND 99),
)
```

```
CREATE TABLE nkrpssuProject
(
    proj_num          SMALLINT          NOT NULL,
    proj_name         VARCHAR(15)      NOT NULL,
    proj_value        NUMERIC(11,2)    NOT NULL,
```

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```
proj_balance    NUMERIC(11,2) NOT NULL,
emp_num         SMALLINT      NOT NULL,
CONSTRAINT pk_proj_num PRIMARY KEY (proj_num),
CONSTRAINT fk_emp_num  FOREIGN KEY(emp_num) REFERENCES nkrpssuEmployee(emp_num),
CONSTRAINT chk_unq_proj_num UNIQUE(proj_num),
CONSTRAINT chk_range_proj_num CHECK(proj_num BETWEEN 10 and 99),
CONSTRAINT chk_upper_proj_name CHECK(proj_name NOT LIKE '%[^A-Z]'),
CONSTRAINT chk_greater_proj_value CHECK(proj_value>0.00),
CONSTRAINT chk_greater_proj_balance CHECK(proj_balance>=0.00),
CONSTRAINT chk_btwn_emp_num CHECK(emp_num BETWEEN 100 AND 999),
CONSTRAINT chk_value_emp_num CHECK(emp_num NOT LIKE '%[^0-9]')
```

CREATE TABLE nkrpssuAssignment

```
(
Assign_num      SMALLINT          NOT NULL,
Assign_date     DATE              NOT NULL      DEFAULT(GETDATE()),
proj_num        SMALLINT          NOT NULL,
emp_num         SMALLINT          NOT NULL,
assign_job      SMALLINT          NULL,
assign_chg_hour NUMERIC(7,2) NOT NULL,
assign_hours    NUMERIC(5,1) NOT NULL,
assign_charge   NUMERIC(7,2) NOT NULL,
CONSTRAINT pk_Assignm_num PRIMARY KEY(Assign_num),
CONSTRAINT fky_proj_num  FOREIGN KEY(proj_num) REFERENCES nkrpssuProject(proj_num),
CONSTRAINT fk_empl_num   FOREIGN KEY(emp_num) REFERENCES nkrpssuEmployee(emp_num),
CONSTRAINT chkuni_Assign_num UNIQUE (Assign_num),
CONSTRAINT chek_Assign_num CHECK(Assign_num between 1000 and 9999),
CONSTRAINT checkk_Assign_date CHECK(FORMAT(Assign_date, 'DD-Mon-YY') LIKE
'[0-3][0-9]-[ADFJMSN][aceou][bcglnpvtvy]-[1-2][0-9]'),
CONSTRAINT chk_proj_num CHECK(proj_num BETWEEN 10 and 99),
CONSTRAINT chk_emplo_num CHECK(emp_num BETWEEN 100 AND 999)
)
```

-- Code to make a copy of teh current nkrpssuEmployee Table

```
SELECT emp_num,emp_lname,emp_fname,emp_initial,emp_hiredate,job_code,emp_years
INTO nkrpssuEmployee_2
FROM nkrpssuEmployee
```

--Adding New Attributes emp\_pct and proj\_num to nkrpssuEmployee\_2 table

```
ALTER TABLE nkrpssuEmployee_2
ADD emp_pct NUMERIC(6,1) NOT NULL
CONSTRAINT chk_emp_pct CHECK(emp_pct between 0.0 and 100.0)
```

```
ALTER TABLE nkrpssuEmployee_2
ADD proj_num SMALLINT NOT NULL
CONSTRAINT chek_proj_num CHECK(proj_num NOT LIKE '%[^0-9]%')
```

--Removing Attributes emp\_initial and emp\_hiredate from nkrpssuEmployee\_2 table

```
ALTER TABLE nkrpssuEmployee_2
DROP COLUMN emp_initial, COLUMN emp_hiredate
```

--Code to remove all tables that contain label nkrpssu

```
DROP TABLE nkrpssuAssignment
DROP TABLE nkrpssuProject
DROP TABLE nkrpssuEmployee
DROP TABLE nkrpssuJob
DROP TABLE nkrpssuEmployee_2
```