

SQL Assignment #2

1. Create a new table containing the category code and description for the categories of books sold by JustLee Books. The table should be called CATEGORY, and the columns should be CatCode and CatDesc. The CatCode column should store a maximum of 2 characters, and the CatDesc column should store a maximum of 10 characters. And then show the structure of the table.

Answer to question 1:

Code for question 1 –

```
CREATE TABLE CATEGORY (CatCode VARCHAR(2), CatDesc VARCHAR(10))
```

Table structure for CATEGORY table –

```
DESCRIBE CATEGORY
```

+ Options

| Field | Type | Null | Key | Default | Extra |
|---------|-------------|------|-----|---------|-------|
| CatCode | varchar(2) | YES | | NULL | |
| CatDesc | varchar(10) | YES | | NULL | |

2. Create a new table containing these four columns: EmpID, Lastname, Firstname, and Job_class. The table name should be EMPLOYEES. The Job_class column should be able to store character strings up to a maximum length of four, but the column values shouldn't be padded if the value has less than four characters. The EmpID column contains a numeric ID and should allow a five-digit number. Use column sizes you consider suitable for the Firstname and Lastname columns. And then show the structure of the table.

Answer to question 2:

Code for question 2-

```
CREATE TABLE EMPLOYEES (EmpID NUMERIC(5), Lastname VARCHAR(25), Firstname VARCHAR(25), Job_class VARCHAR(4))
```

Table structure for EMPLOYEES table –

```
DESCRIBE EMPLOYEES
```

+ Options

| Field | Type | Null | Key | Default | Extra |
|-----------|--------------|------|-----|---------|-------|
| EmpID | decimal(5,0) | YES | | NULL | |
| Lastname | varchar(25) | YES | | NULL | |
| Firstname | varchar(25) | YES | | NULL | |
| Job_class | varchar(4) | YES | | NULL | |

3. Add two columns to the EMPLOYEES table. One column, named EmpDate, contains the date of employment for each employee. The second column, named EndDate, contains employees' date of termination. And then show the structure of the table.

Answer to question 3:

Code for question 3 –

```
ALTER TABLE EMPLOYEES ADD COLUMN EmpDate date, ADD COLUMN EndDate date
```

Table structure for EMPLOYEES table with added columns –

```
DESCRIBE EMPLOYEES
```

+ Options

| Field | Type | Null | Key | Default | Extra |
|-----------|--------------|------|-----|---------|-------|
| EmpID | decimal(5,0) | YES | | NULL | |
| Lastname | varchar(25) | YES | | NULL | |
| Firstname | varchar(25) | YES | | NULL | |
| Job_class | varchar(4) | YES | | NULL | |
| EmpDate | date | YES | | NULL | |
| EndDate | date | YES | | NULL | |

4. Modify the Job_class column of the EMPLOYEES table so that it allows storing a maximum width of two characters. And then show the structure of the table.

Answer to question 4:

Code for question 4 –

```
ALTER TABLE EMPLOYEES MODIFY COLUMN Job_class VARCHAR(2)
```

Table structure for EMPLOYEES table after modifying –

```
DESCRIBE EMPLOYEES
```

+ Options

| Field | Type | Null | Key | Default | Extra |
|-----------|--------------|------|-----|---------|-------|
| EmpID | decimal(5,0) | YES | | NULL | |
| Lastname | varchar(25) | YES | | NULL | |
| Firstname | varchar(25) | YES | | NULL | |
| Job_class | varchar(2) | YES | | NULL | |
| EmpDate | date | YES | | NULL | |
| EndDate | date | YES | | NULL | |

5. Delete the EndDate column from the EMPLOYEES table.

Answer to question 5:

Code for question 5 –

```
ALTER TABLE EMPLOYEES DROP COLUMN EndDate
```

Table structure for EMPLOYEES table after dropping EndDate –

```
DESCRIBE EMPLOYEES
```

+ Options

| Field | Type | Null | Key | Default | Extra |
|-----------|--------------|------|-----|---------|-------|
| EmpID | decimal(5,0) | YES | | NULL | |
| Lastname | varchar(25) | YES | | NULL | |
| Firstname | varchar(25) | YES | | NULL | |
| Job_class | varchar(2) | YES | | NULL | |
| EmpDate | date | YES | | NULL | |

6. Truncate the EMPLOYEES table, and then verify that the table still exists but no longer contains any data.

Question to 6:

Code for question 6 and includes “empty” EMPLOYEES table –

(Just Truncate code didn’t work so I used this code from the PowerPoint notes)

```
TRUNCATE TABLE EMPLOYEES
```

✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0

```
SELECT * FROM EMPLOYEES
```

| EmpID | Lastname | Firstname | Job_class | EmpDate |
|-------|----------|-----------|-----------|---------|
|-------|----------|-----------|-----------|---------|

Query results operations

 Create view

⚠ Current selection does not contain a unique column. Grid edit, check

Your SQL query has been executed successfully.

```
DESC EMPLOYEES
```