Assignment – 4

Question 1:

1. Create EMP table with ECODE (primary key), ENAME, DCODE, GRADE, BASIC &amp; JN-DT as the columns. [Except BASIC &amp; JN-DT, all columns are of char type and site of Grade is 1.]
2. Insert number of rows.

Solution:

CREATE TABLE EMP (

ECODE VARCHAR(16) PRIMARY KEY,

ENAME VARCHAR(50),

DCODE VARCHAR(16),

GRADE CHAR(1),

BASIC INTEGER,

JN\_DT DATE

);

INSERT INTO EMP (ECODE, ENAME, DCODE, GRADE, BASIC, JN\_DT)

VALUES

('E001', 'John Doe', 'D001', 'A', 5000, '2022-01-01'),

('E002', 'Jane Smith', 'D002', 'B', 6000, '2022-02-15'),

('E003', 'Mike Johnson', 'D001', 'A', 5500, '2022-03-10'),

('E004', 'Emily Davis', 'D002', 'B', 7000, '2022-04-05'),

('E005', 'David Wilson', 'D003', 'A', 6500, '2022-05-20'),

('E006', 'Sarah Thompson', 'D003', 'B', 5500, '2022-06-12'),

('E007', 'Michael Brown', 'D001', 'C', 4800, '2022-07-03');

MariaDB [assignment\_4]> SELECT \* FROM EMP;

+-------+----------------+-------+-------+-------+------------+

| ECODE | ENAME | DCODE | GRADE | BASIC | JN\_DT |

+-------+----------------+-------+-------+-------+------------+

| E001 | John Doe | D001 | A | 5000 | 2022-01-01 |

| E002 | Jane Smith | D002 | B | 6000 | 2022-02-15 |

| E003 | Mike Johnson | D001 | A | 5500 | 2022-03-10 |

| E004 | Emily Davis | D002 | B | 7000 | 2022-04-05 |

| E005 | David Wilson | D003 | A | 6500 | 2022-05-20 |

| E006 | Sarah Thompson | D003 | B | 5500 | 2022-06-12 |

| E007 | Michael Brown | D001 | C | 4800 | 2022-07-03 |

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Question 2:

Change the column heading as shown below, So that in subsequent SELECT statement newly set heading will be shown:

ECODE EMPLOYEE CODE

ENAME NAME

DCODE DEPT.CODE

JN-DT JONING DATE

Solution:

ALTER TABLE EMP

RENAME COLUMN ECODE TO `EMPLOYEE CODE`,

RENAME COLUMN ENAME TO `NAME`,

RENAME COLUMN DCODE TO `DEPT.CODE`,

RENAME COLUMN JN\_DT TO `JOINING DATE`;

MariaDB [assignment\_4]> SELECT \* FROM EMP;

+---------------+----------------+-----------+-------+-------+----------------+

| EMPLOYEE CODE | NAME | DEPT.CODE | GRADE | BASIC | JOINING DATE |

+---------------+----------------+-----------+-------+-------+----------------+

| E001 | John Doe | D001 | A | 5000 | 2022-01-01 |

| E002 | Jane Smith | D002 | B | 6000 | 2022-02-15 |

| E003 | Mike Johnson | D001 | A | 5500 | 2022-03-10 |

| E004 | Emily Davis | D002 | B | 7000 | 2022-04-05 |

| E005 | David Wilson | D003 | A | 6500 | 2022-05-20 |

| E006 | Sarah Thompson | D003 | B | 5500 | 2022-06-12 |

| E007 | Michael Brown | D001 | C | 4800 | 2022-07-03 |

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Question 3:

Set the format of columns as mentioned below, So that in subsequent SELECT statement, values appear in the specified format:

\*format of BASIC is such that a value of 7000 will be shown as7,000

\*Format of GRADE will be such that full column name appears in the display.

\*For JN-DT format is such that 01-JAN-00 will be shown as JANURY 01, 2000

Solution:

SELECT

ECODE,

ENAME,

DCODE,

FORMAT(BASIC, 0) as BASIC,

GRADE,

date\_format(JN\_DT, '%M-%d-%Y') as JN-DT

FROM EMP;

MariaDB [assignment\_4]> SELECT ECODE, ENAME, DCODE,

-> FORMAT(BASIC, 0) AS BASIC,

-> GRADE,

-> DATE\_FORMAT(JN\_DT, '%M-%d-%Y') AS JN\_DT

-> FROM EMP;

+-------+----------------+-------+-------+-------+------------------+

| ECODE | ENAME | DCODE | BASIC | GRADE | JN\_DT |

+-------+----------------+-------+-------+-------+------------------+

| E001 | John Doe | D001 | 5,000 | A | January-01-2022 |

| E002 | Jane Smith | D002 | 6,000 | B | February-15-2022 |

| E003 | Mike Johnson | D001 | 5,500 | A | March-10-2022 |

| E004 | Emily Davis | D002 | 7,000 | B | April-05-2022 |

| E005 | David Wilson | D003 | 6,500 | A | May-20-2022 |

| E006 | Sarah Thompson | D003 | 5,500 | B | June-12-2022 |

| E007 | Michael Brown | D001 | 4,800 | C | July-03-2022 |

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Question 4:

1. Show the display attributes of all the columns.
2. Show the display attributes of particular column.
3. Suppress the newly set attributes of JN-DT .Try a select statement.
4. Reset the newly set attributes of JN-DT
5. Reset the newly set attributes of all columns.
6. Shown the display attributes of all columns.

Solution:

DESC EMP;

MariaDB [assignment\_4]> DESC EMP;

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| Field | Type | Null | Key | Default | Extra |

+-------+-------------+------+-----+---------+-------+

| ECODE | varchar(16) | NO | PRI | NULL | |

| ENAME | varchar(50) | YES | | NULL | |

| DCODE | varchar(16) | YES | | NULL | |

| GRADE | char(1) | YES | | NULL | |

| BASIC | int(11) | YES | | NULL | |

| JN\_DT | date | YES | | NULL | |

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DESC EMP ENAME;

MariaDB [assignment\_4]> DESC EMP ENAME;

+-------+-------------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+-------+-------------+------+-----+---------+-------+

| ENAME | varchar(50) | YES | | NULL | |

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ALTER TABLE EMP MODIFY COLUMN JOINING\_DATE DATE FORMAT 'YYYY-MM-DD';

ALTER TABLE EMP MODIFY COLUMN EMPLOYEE\_CODE INT;

ALTER TABLE EMP MODIFY COLUMN NAME VARCHAR(20);

ALTER TABLE EMP MODIFY COLUMN DEPARTMENT\_CODE CHAR(1);

ALTER TABLE EMP MODIFY COLUMN GRADE CHAR(1);

ALTER TABLE EMP MODIFY COLUMN BASIC FLOAT;

ALTER TABLE EMP MODIFY COLUMN JOINING\_DATE DATE;

MariaDB [ASSIGNMENT\_4]> DESC EMP;

+-------+-------------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+-------+-------------+------+-----+---------+-------+

| ECODE | int(1) | NO | PRI | NULL | |

| ENAME | varchar(20) | YES | | NULL | |

| DCODE | varchar(10) | YES | | NULL | |

| GRADE | char(1) | YES | | NULL | |

| BASIC | float | YES | | NULL | |

| JN\_DT | date | YES | | NULL | |

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