Name:Shirehya KP

Registration Nuber:22BDS0365

BAJAJ-FINSERV-CHALLENGE

Code:

```
CREATE TABLE DEPARTMENT (

    DEPARTMENT_ID INTEGER PRIMARY KEY,

    DEPARTMENT_NAME VARCHAR(50) NOT NULL

);


CREATE TABLE EMPLOYEE (

    EMP_ID INTEGER PRIMARY KEY,

    FIRST_NAME VARCHAR(50) NOT NULL,

    LAST_NAME VARCHAR(50) NOT NULL,

    DOB DATE NOT NULL,

    GENDER VARCHAR(10),

    DEPARTMENT INTEGER,

    FOREIGN KEY (DEPARTMENT) REFERENCES DEPARTMENT(DEPARTMENT_ID)

);


CREATE TABLE PAYMENTS (

    PAYMENT_ID INTEGER PRIMARY KEY,

    EMP_ID INTEGER,

    AMOUNT DECIMAL(12,2) NOT NULL,

    PAYMENT_TIME DATETIME NOT NULL,

    FOREIGN KEY (EMP_ID) REFERENCES EMPLOYEE(EMP_ID)

);


INSERT INTO DEPARTMENT (DEPARTMENT_ID, DEPARTMENT_NAME) VALUES

(1, 'HR'),

(2, 'Finance'),

(3, 'Engineering'),
```
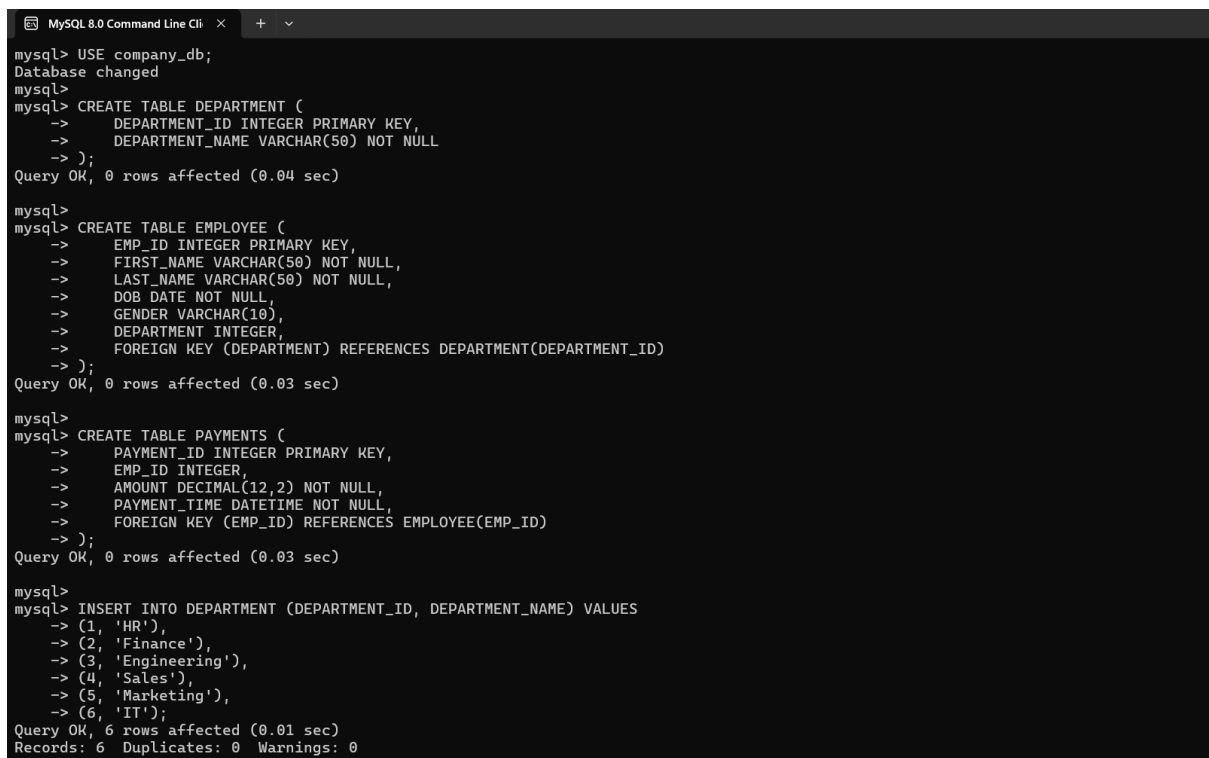
(4, 'Sales'),

(5, 'Marketing'),

(6, 'IT');

INSERT INTO EMPLOYEE (EMP_ID, FIRST_NAME, LAST_NAME, DOB, GENDER, DEPARTMENT) VALUES

(1, 'John', 'Williams', '1980-05-15', 'Male', 3),

(2, 'Sarah', 'Johnson', '1990-07-20', 'Female', 2),

(3, 'Michael', 'Smith', '1985-02-10', 'Male', 3),

(4, 'Emily', 'Brown', '1992-11-30', 'Female', 4),

(5, 'David', 'Jones', '1988-09-05', 'Male', 5),

(6, 'Olivia', 'Davis', '1995-04-12', 'Female', 1),

(7, 'James', 'Wilson', '1983-03-25', 'Male', 6),

(8, 'Sophia', 'Anderson', '1991-08-17', 'Female', 4),

(9, 'Liam', 'Miller', '1979-12-01', 'Male', 1),

(10, 'Emma', 'Taylor', '1993-06-28', 'Female', 5);

INSERT INTO PAYMENTS (PAYMENT_ID, EMP_ID, AMOUNT, PAYMENT_TIME) VALUES

(1, 2, 65784.00, '2025-01-01 13:44:12.824'),

(2, 4, 62736.00, '2025-01-06 18:36:37.892'),

(3, 1, 69437.00, '2025-01-01 10:19:21.563'),

(4, 3, 67183.00, '2025-01-02 17:21:57.341'),

(5, 2, 66273.00, '2025-02-01 11:49:15.764'),

(6, 5, 71475.00, '2025-01-01 07:24:14.453'),

(7, 1, 70837.00, '2025-02-03 19:11:31.553'),

(8, 6, 69628.00, '2025-01-02 10:41:15.113'),

(9, 4, 71876.00, '2025-02-01 12:16:47.807'),

(10, 3, 70098.00, '2025-02-03 10:11:17.341'),

(11, 6, 67827.00, '2025-02-02 19:21:27.753'),

(12, 5, 69871.00, '2025-02-05 17:54:17.453'),

(13, 2, 72984.00, '2025-03-05 09:37:35.974'),

(14, 1, 67982.00, '2025-03-01 06:09:51.983'),

```
(15, 6, 70198.00, '2025-03-02 10:34:35.753'),

(16, 4, 74998.00, '2025-03-02 09:27:26.162');

SELECT

    p.AMOUNT AS SALARY,

    CONCAT(e.FIRST_NAME, ' ', e.LAST_NAME) AS NAME,

    TIMESTAMPDIFF(YEAR, e.DOB, CURDATE()) AS AGE,

    d.DEPARTMENT_NAME

FROM PAYMENTS p

JOIN EMPLOYEE e ON p.EMP_ID = e.EMP_ID

JOIN DEPARTMENT d ON e.DEPARTMENT = d.DEPARTMENT_ID

WHERE DAY(p.PAYMENT_TIME) <> 1

ORDER BY p.AMOUNT DESC

LIMIT 1;
```

```
MySQL 8.0 Command Line Cli    ×    +    ˅

mysql> USE company_db;
Database changed
mysql>
mysql> CREATE TABLE DEPARTMENT (
    ->     DEPARTMENT_ID INTEGER PRIMARY KEY,
    ->     DEPARTMENT_NAME VARCHAR(50) NOT NULL
    -> );
Query OK, 0 rows affected (0.04 sec)

mysql>
mysql> CREATE TABLE EMPLOYEE (
    ->     EMP_ID INTEGER PRIMARY KEY,
    ->     FIRST_NAME VARCHAR(50) NOT NULL,
    ->     LAST_NAME VARCHAR(50) NOT NULL,
    ->     DOB DATE NOT NULL,
    ->     GENDER VARCHAR(10),
    ->     DEPARTMENT INTEGER,
    ->     FOREIGN KEY (DEPARTMENT) REFERENCES DEPARTMENT(DEPARTMENT_ID)
    -> );
Query OK, 0 rows affected (0.03 sec)

mysql>
mysql> CREATE TABLE PAYMENTS (
    ->     PAYMENT_ID INTEGER PRIMARY KEY,
    ->     EMP_ID INTEGER,
    ->     AMOUNT DECIMAL(12,2) NOT NULL,
    ->     PAYMENT_TIME DATETIME NOT NULL,
    ->     FOREIGN KEY (EMP_ID) REFERENCES EMPLOYEE(EMP_ID)
    -> );
Query OK, 0 rows affected (0.03 sec)

mysql>
mysql> INSERT INTO DEPARTMENT (DEPARTMENT_ID, DEPARTMENT_NAME) VALUES
    -> (1, 'HR'),
    -> (2, 'Finance'),
    -> (3, 'Engineering'),
    -> (4, 'Sales'),
    -> (5, 'Marketing'),
    -> (6, 'IT');
Query OK, 6 rows affected (0.01 sec)
Records: 6  Duplicates: 0  Warnings: 0
```

```
mysql>
mysql> INSERT INTO EMPLOYEE (EMP_ID, FIRST_NAME, LAST_NAME, DOB, GENDER, DEPARTMENT) VALUES
    -> (1, 'John', 'Williams', '1980-05-15', 'Male', 3),
    -> (2, 'Sarah', 'Johnson', '1990-07-20', 'Female', 2),
    -> (3, 'Michael', 'Smith', '1985-02-10', 'Male', 3),
    -> (4, 'Emily', 'Brown', '1992-11-30', 'Female', 4),
    -> (5, 'David', 'Jones', '1988-09-05', 'Male', 5),
    -> (6, 'Olivia', 'Davis', '1995-04-12', 'Female', 1),
    -> (7, 'James', 'Wilson', '1983-03-25', 'Male', 6),
    -> (8, 'Sophia', 'Anderson', '1991-08-17', 'Female', 4),
    -> (9, 'Liam', 'Miller', '1979-12-01', 'Male', 1),
    -> (10, 'Emma', 'Taylor', '1993-06-28', 'Female', 5);
Query OK, 10 rows affected (0.00 sec)
Records: 10  Duplicates: 0  Warnings: 0

mysql>
mysql> INSERT INTO PAYMENTS (PAYMENT_ID, EMP_ID, AMOUNT, PAYMENT_TIME) VALUES
    -> (1, 2, 65784.00, '2025-01-01 13:44:12.824'),
    -> (2, 4, 62736.00, '2025-01-06 18:36:37.892'),
    -> (3, 1, 69437.00, '2025-01-01 10:19:21.563'),
    -> (4, 3, 67183.00, '2025-01-02 17:21:57.341'),
    -> (5, 2, 66273.00, '2025-02-01 11:49:15.764'),
    -> (6, 5, 71475.00, '2025-01-01 07:24:14.453'),
    -> (7, 1, 70837.00, '2025-02-03 19:11:31.553'),
    -> (8, 6, 69628.00, '2025-01-02 10:41:15.113'),
    -> (9, 4, 71876.00, '2025-02-01 12:16:47.807'),
    -> (10, 3, 70098.00, '2025-02-03 10:11:17.341'),
    -> (11, 6, 67827.00, '2025-02-02 19:21:27.753'),
    -> (12, 5, 69871.00, '2025-02-05 17:54:17.453'),
    -> (13, 2, 72984.00, '2025-03-05 09:37:35.974'),
    -> (14, 1, 67982.00, '2025-03-01 06:09:51.983'),
    -> (15, 6, 70198.00, '2025-03-02 10:34:35.753'),
    -> (16, 4, 74998.00, '2025-03-02 09:27:26.162');
Query OK, 16 rows affected (0.00 sec)
Records: 16  Duplicates: 0  Warnings: 0
```

```
mysql> SELECT
    ->      p.AMOUNT AS SALARY,
    ->      CONCAT(e.FIRST_NAME, ' ', e.LAST_NAME) AS NAME,
    ->      TIMESTAMPDIFF(YEAR, e.DOB, CURDATE()) AS AGE,
    ->      d.DEPARTMENT_NAME
    -> FROM PAYMENTS p
    -> JOIN EMPLOYEE e ON p.EMP_ID = e.EMP_ID
    -> JOIN DEPARTMENT d ON e.DEPARTMENT = d.DEPARTMENT_ID
    -> WHERE DAY(p.PAYMENT_TIME) <> 1
    -> ORDER BY p.AMOUNT DESC
    -> LIMIT 1;
+----------+-------------+------+-----------------+
| SALARY   | NAME        | AGE  | DEPARTMENT_NAME |
+----------+-------------+------+-----------------+
| 74998.00 | Emily Brown |   32 | Sales           |
+----------+-------------+------+-----------------+
1 row in set (0.01 sec)
```