

```
USE BUDT702_Project_0504_10
```

```
-- SQL drop view:
```

```
DROP VIEW IF EXISTS Day;  
DROP VIEW IF EXISTS Totalduration;  
DROP VIEW IF EXISTS PlayerAge;
```

```
-- SQL Create View:
```

```
GO
```

```
CREATE VIEW PlayerAge AS  
SELECT p.playerId, p.playerName, DATEDIFF(YEAR, p.playerDOB, GETDATE()) AS  
playerAge
```

```
FROM [TerpZone.Player] p;
```

```
GO
```

```
CREATE VIEW TotalDuration AS
```

```
SELECT c.customerEmail,  
       DATEDIFF(HOUR, c.customerStartTime, c.customerEndTime) AS totalhours,  
       DATEDIFF(MINUTE, c.customerStartTime, c.customerEndTime) %60 AS totalminutes
```

```
FROM [TerpZone.Customer] c;
```

```
GO
```

```
CREATE VIEW Day AS
```

```
SELECT r.customerEmail, r.date, DATENAME(WEEKDAY, r.date) AS day  
FROM [TerpZone.Registers] r;
```

```
GO
```

```
-- SQL Select queries:
```

```
-- 1. Which among the Weekdays and Weekends have more customers ?
```

```
SELECT 'Weekday' AS day_type, COUNT(d.day) AS 'Customer Count'  
FROM Day d  
WHERE d.day IN ('Monday', 'Tuesday', 'Wednesday', 'Thursday', 'Friday')  
UNION ALL  
SELECT 'Weekend' AS day_type, COUNT(d.day)  
FROM Day d  
WHERE d.day IN ('Saturday', 'Sunday')
```

```
-- 2. What is the Peak hour and respective Total visit ?
```

```
SELECT
```

```
    CONCAT(  
        CAST(hourOfDay AS VARCHAR(2)), ':00-',  
        CAST(hourOfDay + 1 AS VARCHAR(2)), ':00'  
    ) AS PeakHourInterval,  
    COUNT(*) AS TotalVisits
```

```
FROM (
```

```
    SELECT  
        DATEPART(HOUR, customerStartTime) AS hourOfDay  
    FROM [TerpZone.Customer]) AS PeakHours
```

```
GROUP BY hourOfDay
```

```
HAVING COUNT(*) = (
```

```
    SELECT MAX(visitCount)
```

```
    FROM (
```

```
        SELECT DATEPART(HOUR, customerStartTime) AS
```

```
hourOfDay, COUNT(*) AS visitCount
```

```
    FROM [TerpZone.Customer]
```

```
    GROUP BY DATEPART(HOUR, customerStartTime)) AS
```

```
MaxVisitCount
```

```
);
```

-- 3. What type of customers visits more ?

```
SELECT c.customerType AS 'Customer Type', COUNT (C.customerType) AS 'CUSTOMER  
ENGAGEMENT'  
FROM [TerpZone.Customer] c  
GROUP BY c.customerType
```

-- 4. Which age group comes to play the most ?

```
SELECT '18-25' AS 'Age group', COUNT (p.playerId) AS 'NO OF PLAYERS'  
FROM [TerpZone.Player] p  
WHERE DATEDIFF(YEAR, p.playerDOB, GETDATE()) BETWEEN 18 AND 25  
UNION  
SELECT '25-35' , COUNT (p.playerId)  
FROM [TerpZone.Player] p  
WHERE DATEDIFF(YEAR, p.playerDOB, GETDATE()) BETWEEN 25 AND 35  
UNION  
SELECT '35 and above', COUNT (p.playerId)  
FROM [TerpZone.Player] p  
WHERE DATEDIFF(YEAR, p.playerDOB, GETDATE()) BETWEEN 35 AND 100
```