

USE BUDT703_Project_0507_13

--SQL DROP TABLES:

```
DROP TABLE IF EXISTS [PPP.Host];
DROP TABLE IF EXISTS [PPP.Play];
DROP TABLE IF EXISTS [PPP.Opponent];
DROP TABLE IF EXISTS [PPP.Match];
DROP TABLE IF EXISTS [PPP.Location];
DROP TABLE IF EXISTS [PPP.Date];
```

--SQL CREATE TABLES:

```
CREATE TABLE [PPP.Date] (
    datMch DATE NOT NULL,
    datDay CHAR (3) NOT NULL,
    CONSTRAINT pk_Date_datMch PRIMARY KEY (datMch))
```

```
CREATE TABLE [PPP.Location] (
    locId CHAR(5) NOT NULL,
    locCty VARCHAR (20),
    locState VARCHAR (5),
    CONSTRAINT pk_Location_locId PRIMARY KEY (locId))
```

```
CREATE TABLE [PPP.Match] (
    mchId CHAR(7) NOT NULL,
    mchAt VARCHAR (10),
    mchScrUmd INT,
    mchScrOpp INT,
    CONSTRAINT pk_Match_mchId PRIMARY KEY (mchId))
```

```
CREATE TABLE [PPP.Opponent] (
    oppId CHAR(5) NOT NULL,
    oppName VARCHAR(20),
    CONSTRAINT pk_Opponent_oppId PRIMARY KEY (oppId))
```

```
CREATE TABLE [PPP.Play] (
    mchId CHAR(7) NOT NULL,
    datMch DATE NOT NULL,
    oppId CHAR(5) NOT NULL,
    CONSTRAINT pk_Play_mchId_datMch_oppId PRIMARY KEY (mchId,datMch,oppId),
    CONSTRAINT fk_Play_mchId FOREIGN KEY (mchId)
        REFERENCES [PPP.Match] (mchId)
        ON DELETE CASCADE ON UPDATE CASCADE,
    CONSTRAINT fk_Play_datMch FOREIGN KEY (datMch)
        REFERENCES [PPP.Date] (datMch)
        ON DELETE CASCADE ON UPDATE CASCADE,
    CONSTRAINT fk_Play_oppId FOREIGN KEY (oppId)
        REFERENCES [PPP.Opponent] (oppId)
        ON DELETE CASCADE ON UPDATE CASCADE)
```

```
CREATE TABLE [PPP.Host] (
    locId CHAR(5) NOT NULL,
    mchId CHAR(7) NOT NULL,
    CONSTRAINT pk_Host_locId_mchId PRIMARY KEY (locId,mchId),
```

```

CONSTRAINT fk_Host_locId FOREIGN KEY (locId)
    REFERENCES [PPP.Location] (locId)
    ON DELETE CASCADE ON UPDATE CASCADE,
CONSTRAINT fk_Host_mchId FOREIGN KEY (mchId)
    REFERENCES [PPP.Match] (mchId)
    ON DELETE CASCADE ON UPDATE CASCADE)

```

--SQL INSERT DATA:

```

INSERT INTO [PPP.Date] VALUES
('04/01/1995', 'Sat'),
('05/11/1995', 'Tue'),
('04/11/1995', 'Tue'),
('04/12/1995', 'Wed'),
('05/12/1995', 'Wed')

```

```

INSERT INTO [PPP.Location] VALUES
('lo001', 'Marietta', 'Ga'),
('lo002', 'Baltimore', 'MD'),
('lo003', 'Baltimore', 'MD'),
('lo004', 'College Park', 'Md.'),
('lo005', 'College Park', 'Md.')

```

```

INSERT INTO [PPP.Match] VALUES
('m199501', 'Neutral', 1, 12),
('m199502', 'Away', 17, 2),
('m199503', 'Away', 15, 2),
('m199504', 'Home', 18, 6),
('m199505', 'Home', 0, 9)

```

```

INSERT INTO [PPP.Opponent] VALUES
('op001', 'UT Martin'),
('op002', 'Coppin State'),
('op003', 'Coppin State'),
('op004', 'Morgan State'),
('op005', 'Morgan State')

```

```

INSERT INTO [PPP.Play] VALUES
('m199501', '04/01/1995', 'op001'),
('m199502', '04/11/1995', 'op002'),
('m199503', '04/11/1995', 'op003'),
('m199504', '04/12/1995', 'op004'),
('m199505', '04/12/1995', 'op005')

```

```

INSERT INTO [PPP.Host] VALUES
('lo001', 'm199501'),
('lo002', 'm199502'),
('lo003', 'm199503'),
('lo004', 'm199504'),
('lo005', 'm199505')

```

--What are the details of the teams that Maryland has lost against the maximum number of times?

```

SELECT p.oppId, o.oppName AS 'Opponent Name', COUNT (m.mchScrUmd<m.mchScrOpp) AS
'Match Lost'
FROM [PPP.Match] m, [PPP.Opponent] o, [PPP.Play] p
WHERE p.oppId=o.oppId

```

```
        AND m.mchId=p.mchId
ORDER BY 'Match Lost' DESC
```

--What are the details of the teams that Maryland has won against the maximum number of times away from home?

```
SELECT p.oppId, o.oppName AS 'Opponent Name', COUNT (m.mchScrUmd>m.mchScrOpp) AS
'Match Won'
FROM [PPP.Match] m, [PPP.Opponent] o, [PPP.Play] p
WHERE p.oppId=o.oppId
      AND m.mchId=p.mchId
      AND mchAt='Away'
ORDER BY 'Match Won' DESC
```

--What are the details of the teams which Maryland has won against keeping a clean sheet?

```
SELECT p.oppId, o.oppName AS 'Opponent Name', COUNT(m.mchId) AS 'Number of Clean
Sheets'
FROM [PPP.Match] m, [PPP.Opponent] o, [PPP.Play] p
WHERE p.oppId=o.oppId
      AND m.mchScrOpp=0
      AND m.mchId=p.mchId
      AND m.mchScrUmd>m.mchScrOpp
ORDER BY 'Number of Clean Sheets' Desc
```

--What are the details of the teams against which Maryland has won the maximum number of times?

```
SELECT p.oppId, o.oppName AS 'Opponent Name', m.mchId, (m.mchScrUmd>m.mchScrOpp) AS
'Maryland wins'
FROM [PPP.Match] m, [PPP.Opponent] o, [PPP.Play] p
WHERE p.oppId=o.oppId
      AND m.mchId=p.mchId
ORDER BY 'Number of times won'
```

--What are the details of the teams against which Maryland has won by the highest margin?

```
SELECT p.oppId, m.mchScrUmd, m.mchScrOpp, o.oppName AS 'Opponent Name', m.mchId,
(m.mchScrUmd-m.mchScrOpp) AS 'Score Margin'
FROM [PPP.Match] m, [PPP.Opponent] o, [PPP.Play] p
WHERE p.oppId=o.oppId
      AND m.mchId=p.mchId
      AND m.mchScrUmd>m.mchScrOpp
ORDER BY 'Score Margin' DESC
```