

```

use BUDT703_Project_0506_12;
DROP VIEW IF EXISTS V1
DROP VIEW IF EXISTS V2
DROP VIEW IF EXISTS V3
DROP VIEW IF EXISTS V4
DROP VIEW IF EXISTS focus

```

```

GO
CREATE VIEW V1
AS
--Q1: What the average star rate of each restaurant
SELECT t.restName,AVG(r.revrStar) 'avgRevrStar'
FROM [G12.Reviewer] r, [G12.Restaurant] t
WHERE r.restId =t.restId
GROUP BY t.restName

```

--Q2: How many negative/positive reviews each restaurant received? And what about their rate? order by the rate of positive?

```

GO
CREATE VIEW V2
AS
SELECT t1.restName, q1.cn 'Total reviews', q1.neg 'Number of
Negative',ROUND(CAST(q1.neg AS FLOAT)/q1.cn,2) 'Negative Rate', q1.pos
'Number of Positive', ROUND(CAST(q1.pos AS FLOAT)/q1.cn ,2) 'Positive Rate'
FROM [G12.Restaurant] t1,(
    SELECT r3.restId, COUNT(r3.revId) 'cn', q.ne 'neg',q.po 'pos'
    FROM [G12.Reviewer] r3, (
        SELECT r2.restId, COUNT(revrExperience_Positive_or_Negative )
ne, p.po
        FROM [G12.Reviewer] r2, (
            SELECT r1.restId,
COUNT(revrExperience_Positive_or_Negative ) po
            FROM [G12.Reviewer] r1
            WHERE revrExperience_Positive_or_Negative = 'P'
            GROUP BY r1.restId ) p
        WHERE r2.restId = p.restId
        GROUP BY r2.restId, revrExperience_Positive_or_Negative , p.po
        HAVING revrExperience_Positive_or_Negative = 'N') q
    WHERE r3.restId = q.restId
    GROUP BY r3.restId, q.ne,q.po) q1
WHERE t1.restId = q1.restId
GROUP BY t1.restName, q1.cn,q1.neg,q1.pos

```

--Q3 :Which restaurant has the most complete features and where is the location?

GO

CREATE VIEW V3

AS

```
SELECT t.restName, CONCAT(t.restStreet, ' ', t.restState) as 'Location'
FROM [G12.Restaurant] t,(
    SELECT f.restId
    FROM [G12.Features] f
    WHERE f.feaReservation = 'Y'
    and f.feaDeliver = 'Y'
    and f.feaTakeOut = 'Y') a1
WHERE t.restId = a1.restId
```

--Q4: What is the distribution of reviews which are higher than 4 stars for each restaurant? The distribution is categorized within environment/ food/ service-

~~GO~~

~~CREATE VIEW focus~~

~~AS~~

```
SELECT y1.restId,v.commentFocus,y1.revId-
FROM [G12.Review] v,(-
SELECT e.restId, e.revId-
FROM [G12Reviewer] e-
WHERE e.revStar >3-
GROUP BY e.restId, e.revId) y1-
WHERE y1.revId =v.revId-
```

~~GO~~

~~CREATE VIEW V4~~

~~AS~~

```
SELECT g.restName, g.restId,ISNULL(sef.environment, 0) 'environment',
ISNULL(sef.food,0) 'food',ISNULL(sef.service,0) 'service'-
FROM [G12.Restaurant] g,(-
    SELECT ISNULL(f1.restId, se.restId) 'restId', f1.food, se.environment,
se.service-
    FROM (-
        SELECT i.restId , COUNT(f.commentFocus) 'food'-
        FROM [G12.Restaurant] i, focus f-
        WHERE i.restId =f.restId-
        GROUP BY i.restId, f.commentFocus-
        HAVING f.commentFocus ='FOOD') f1-
    FULL OUTER JOIN (-
        SELECT s.restId, s.service, e.environment-
        FROM (-
```

```

SELECT i.restId , COUNT(f.commentFocus) 'service'
FROM [G12.Restaurant] i, focus f
WHERE i.restId =f.restId
GROUP BY i.restId, f.commentFocus
HAVING f.commentFocus ='SERVICE') s
FULL OUTER JOIN (
SELECT i.restId , COUNT(f.commentFocus)
'environment'
FROM [G12.Restaurant] i, focus f
WHERE i.restId =f.restId
GROUP BY i.restId, f.commentFocus
HAVING f.commentFocus ='ENVIRONMENT') e
ON s.restId=e.restId) se
ON se.restId = f1.restId) sef
WHERE g.restId=sef.restId

```