Queries

**-- Stall-wise Revenue**

SELECT

s.stall\_name,

SUM(m.cost \* oi.quantity) AS total\_revenue

FROM

ordered\_items oi

JOIN

menu m ON oi.item\_name = m.item\_name

JOIN

stall s ON m.stall\_id = s.stall\_id

GROUP BY

s.stall\_name

ORDER BY

total\_revenue DESC;

**-- RTO Rate**

SELECT

s.stall\_name,

COUNT(CASE WHEN latest\_status.status = 'RETURNED' THEN 1 END) AS returned\_orders,

COUNT(\*) AS total\_orders,

ROUND(

100.0 \* COUNT(CASE WHEN latest\_status.status = 'RETURNED' THEN 1 END) / COUNT(\*),

2

) AS rto\_rate\_percentage

FROM

(

SELECT os1.order\_id, os1.status

FROM order\_status os1

JOIN (

SELECT order\_id, MAX(time) AS latest\_time

FROM order\_status

GROUP BY order\_id

) os2 ON os1.order\_id = os2.order\_id AND os1.time = os2.latest\_time

) latest\_status

JOIN orders o ON latest\_status.order\_id = o.order\_id

JOIN ordered\_items oi ON o.order\_id = oi.order\_id

JOIN menu m ON oi.item\_name = m.item\_name

JOIN stall s ON m.stall\_id = s.stall\_id

GROUP BY

s.stall\_name

ORDER BY

rto\_rate\_percentage DESC;

**-- Average Delivery Time (in minutes)**

SELECT

s.stall\_name,

ROUND(AVG(TIMESTAMPDIFF(MINUTE, placed.time, delivered.time)), 2) AS avg\_delivery\_time\_minutes

FROM

orders o

JOIN ordered\_items oi ON o.order\_id = oi.order\_id

JOIN menu m ON oi.item\_name = m.item\_name

JOIN stall s ON m.stall\_id = s.stall\_id

JOIN order\_status placed

ON o.order\_id = placed.order\_id AND placed.status = 'PLACED'

JOIN order\_status delivered

ON o.order\_id = delivered.order\_id AND delivered.status = 'DELIVERED'

GROUP BY

s.stall\_name

ORDER BY

avg\_delivery\_time\_minutes;

**-- Top 5 Fastest Stalls (Avg Delivery Time)**

SELECT

s.stall\_name,

ROUND(AVG(TIMESTAMPDIFF(MINUTE, placed.time, delivered.time)), 2) AS avg\_delivery\_time\_minutes

FROM

orders o

JOIN ordered\_items oi ON o.order\_id = oi.order\_id

JOIN menu m ON oi.item\_name = m.item\_name

JOIN stall s ON m.stall\_id = s.stall\_id

JOIN order\_status placed

ON o.order\_id = placed.order\_id AND placed.status = 'PLACED'

JOIN order\_status delivered

ON o.order\_id = delivered.order\_id AND delivered.status = 'DELIVERED'

GROUP BY

s.stall\_name

ORDER BY

avg\_delivery\_time\_minutes ASC

LIMIT 5;

**-- Most Frequently Ordered Items**

SELECT

oi.item\_name,

SUM(oi.quantity) AS total\_quantity\_ordered

FROM

ordered\_items oi

GROUP BY

oi.item\_name

ORDER BY

total\_quantity\_ordered DESC

LIMIT 10;

**-- Top Revenue Generating Items**

SELECT

oi.item\_name,

SUM(oi.quantity \* m.cost) AS total\_revenue

FROM

ordered\_items oi

JOIN

menu m ON oi.item\_name = m.item\_name

GROUP BY

oi.item\_name

ORDER BY

total\_revenue DESC

LIMIT 10;

**-- Least Ordered Items**

SELECT

oi.item\_name,

SUM(oi.quantity) AS total\_quantity\_ordered

FROM

ordered\_items oi

GROUP BY

oi.item\_name

ORDER BY

total\_quantity\_ordered ASC

LIMIT 10;