1. Active Projects by Status

SELECT status, COUNT(\*) AS active\_project\_count

FROM Projects

WHERE status NOT IN ('Completed')

GROUP BY status;

1. Tasks Created, Completed, In-Progress This Week

SELECT

SUM(CASE WHEN DATE(created\_at) BETWEEN {start\_date} AND {end\_date} THEN 1 ELSE 0 END) AS tasks\_created,

SUM(CASE WHEN status = 'Completed' AND DATE(completed\_at) BETWEEN {start\_date} AND {end\_date} THEN 1 ELSE 0 END) AS tasks\_completed,

SUM(CASE WHEN status = 'In-Progress' THEN 1 ELSE 0 END) AS tasks\_in\_progress

FROM Tasks;

1. Average Turnaround Time for Tasks

SELECT

ROUND(AVG(JULIANDAY(completed\_at) - JULIANDAY(created\_at)), 2) AS avg\_days\_turnaround

FROM Tasks

WHERE status = 'Completed'

AND DATE(completed\_at) BETWEEN {start\_date} AND {end\_date};

1. Issues Logged/Resolved This Week

SELECT

SUM(CASE WHEN DATE(created\_at) BETWEEN {start\_date} AND {end\_date} THEN 1 ELSE 0 END) AS issues\_logged,

SUM(CASE WHEN DATE(resolved\_at) BETWEEN {start\_date} AND {end\_date} THEN 1 ELSE 0 END) AS issues\_resolved

FROM Issues;

1. SLA Breach Count

-- For Tasks

SELECT COUNT(\*) AS task\_sla\_breaches

FROM Tasks

WHERE status = 'Completed'

AND (JULIANDAY(completed\_at) - JULIANDAY(created\_at)) > sla\_days;

-- For Issues

SELECT COUNT(\*) AS issue\_sla\_breaches

FROM Issues

WHERE status = 'Resolved'

AND (JULIANDAY(resolved\_at) - JULIANDAY(created\_at)) > sla\_days;

1. Task/Issue Breakdown by Assignee

-- Tasks

SELECT tm.full\_name, COUNT(t.task\_id) AS total\_tasks

FROM Tasks t

JOIN TeamMembers tm ON t.assigned\_to = tm.member\_id

GROUP BY tm.full\_name;

-- Issues

SELECT tm.full\_name, COUNT(i.issue\_id) AS total\_issues

FROM Issues i

JOIN TeamMembers tm ON i.assigned\_to = tm.member\_id

GROUP BY tm.full\_name;

1. Parameterised Versions

-- Example parameters

\set project\_name 'Apollo Redesign'

\set start\_date '2025-08-04'

\set end\_date '2025-08-11'

\set assignee 'Jane Doe'

-- Tasks created this week for a given project & assignee

SELECT COUNT(\*) AS tasks\_created

FROM Tasks t

JOIN Projects p ON t.project\_id = p.project\_id

JOIN TeamMembers m ON t.assigned\_to = m.member\_id

WHERE p.project\_name = :'project\_name'

AND m.full\_name = :'assignee'

AND DATE(t.created\_at) BETWEEN :'start\_date' AND :'end\_date';