1. Query:

SELECT quantityOnHand

FROM item

WHERE itemDescription = 'bottle of antibiotics';

Answer: 100

1. Query  
   SELECT volunteerName

FROM volunteer

WHERE (volunteerTelephone IS NULL OR volunteerTelephone NOT LIKE '2%')

AND volunteerName NOT LIKE '%Jones%';

Answer: Harry Smith, Joan Simmons, Gene Lewin

1. Query

SELECT volunteerName

FROM volunteer

JOIN assignment

ON volunteer.volunteerId = assignment.volunteerId

JOIN task

ON assignment.taskCode = task.taskCode

JOIN task\_type

ON task.taskTypeId = task\_type.taskTypeId

WHERE taskTypeName = "transporting";

Answer: George Brewer

1. Query

SELECT taskDescription

FROM task

LEFT JOIN assignment

ON task.taskCode = assignment.taskCode

WHERE assignment.volunteerId is NULL;

Answer: Prepare 100 food packages, Take packages to the warehouse

1. Query

SELECT DISTINCT packageTypeName

FROM package\_type

JOIN package

ON package.packageTypeId = package\_type.packageTypeId

JOIN package\_contents

ON package\_contents.packageId = package.packageId

JOIN item

ON package\_contents.itemId = item.itemId

WHERE itemDescription LIKE "%bottle%";

Answer: food and water

1. Query

SELECT itemDescription

FROM item

LEFT JOIN package\_contents

ON item.itemId = package\_contents.itemId

WHERE packageId is NULL;

Answer: 'bottle of antibiotics', 'bottle of aspirin', 'flashlight', 'pack of bandages'

1. Query

SELECT DISTINCT taskDescription

FROM task

JOIN assignment

ON assignment.taskCode = task.taskCode

JOIN volunteer

ON assignment.volunteerId = volunteer.volunteerId

WHERE volunteerAddress LIKE "%NJ%"

;

Answer: 'Prepare 20 children\'s packages'

'Prepare 100 water packages'

'Prepare 5,000 packages'

1. Query

SELECT DISTINCT volunteerName

FROM volunteer

JOIN assignment

ON assignment.volunteerId = volunteer.volunteerId

WHERE startDateTime BETWEEN "2021-01-01" and "2021-06-01"

;

Answer: 'Joan Simmons'

'Chris Jordan'

1. Query

SELECT DISTINCT volunteerName

FROM volunteer

JOIN assignment

ON assignment.volunteerId = volunteer.volunteerId

JOIN task

ON assignment.taskCode = task.taskCode

JOIN package

ON task.taskCode = package.taskCode

JOIN package\_contents

ON package.packageId = package\_contents.packageId

JOIN item

ON package\_contents.itemId = item.itemId

WHERE item.itemDescription LIKE '%spam%';

Answer: 'Julie White'

'Gerry Banks'

1. Query

SELECT itemDescription

FROM item

JOIN package\_contents

ON item.itemId = package\_contents.itemId

WHERE itemValue\*itemQuantity = 100;  
Answer: Baby formula

1. Query

SELECT taskStatusName, COUNT(DISTINCT assignment.volunteerId) AS volunteer\_count

FROM task\_status

JOIN task

ON task\_status.taskStatusId = task.taskStatusId

JOIN assignment

ON task.taskCode = assignment.taskCode

GROUP BY taskStatusName

ORDER BY volunteer\_count DESC;  
Answer: 'open','4'

'closed','3'

'ongoing','2'

'pending','1'

1. Query:

SELECT task.taskCode, SUM(packageWeight) AS total\_weight

FROM task

JOIN package

ON task.taskCode = package.taskCode

GROUP BY task.taskCode

ORDER BY total\_weight DESC

LIMIT 1;

Answer: taskCode: 106 total\_weight: 308

1. Query

SELECT COUNT(taskCode) AS non\_packing\_tasks

FROM task

JOIN task\_type

ON task.taskTypeId = task\_type.taskTypeId

WHERE task\_type.taskTypeName != 'packing';

Answer: 3

1. Query

SELECT DISTINCT item.itemDescription

FROM item

JOIN package\_contents

ON item.itemId = package\_contents.itemId

JOIN package

ON package\_contents.packageId = package.packageId

JOIN task

ON package.taskCode = task.taskCode

JOIN assignment

ON task.taskCode = assignment.taskCode

GROUP BY item.itemId

HAVING COUNT(DISTINCT assignment.volunteerId) < 3;  
Answer: 'can of spam'

'dried fruit'

'men\'s coat'

'sleeping bag'

'tent'

'women\'s coat'

1. Query:

SELECT package.packageId, SUM(item.itemValue \* package\_contents.itemQuantity) AS total\_value

FROM package

JOIN package\_contents

ON package.packageId = package\_contents.packageId

JOIN item

ON package\_contents.itemId = item.itemId

GROUP BY package.packageId

HAVING SUM(item.itemValue \* package\_contents.itemQuantity) > 100

ORDER BY total\_value ASC;  
Answer: '6','150'

'2','151'

'4','350'

'10','750'

'5','1420'