

```
CREATE TABLE Resources (  
    resource_id INT PRIMARY KEY,  
    name VARCHAR(100) NOT NULL,  
    quantity INT CHECK (quantity >= 0),  
    unit VARCHAR(20),  
    description TEXT,  
    last_updated DATETIME  
);
```

```
INSERT INTO Resources (resource_id, name, quantity, unit, description, last_updated)  
VALUES  
(1, 'Rice', 500, 'kg', 'Basmati, expiry: 2025', '2025-07-20 09:00:00'),  
(2, 'Blankets', 200, 'pcs', 'Winter, double-layered', '2025-07-28 16:22:00'),  
(3, 'Medicine', 150, 'boxes', 'First aid kits', '2025-07-27 10:12:00');
```

```
-- Update quantity of Medicine to 180  
UPDATE Resources  
SET quantity = 180  
WHERE resource_id = 3;
```

```
-- Add a new column for supplier name  
ALTER TABLE Resources  
ADD supplier VARCHAR(100);
```

```
-- Add UNIQUE constraint to resource name  
ALTER TABLE Resources  
ADD CONSTRAINT unique_resource_name UNIQUE (name);
```

```
-- Add NOT NULL constraint to unit  
ALTER TABLE Resources  
MODIFY unit VARCHAR(20) NOT NULL;
```

```
-- Select all records  
SELECT * FROM Resources;
```

```
-- Resources updated after July 25, 2025  
SELECT * FROM Resources  
WHERE last_updated > '2025-07-25';
```

```
-- Show only name and quantity of all resources  
SELECT name, quantity FROM Resources;
```

```
-- List all resource names and units in one column  
SELECT name AS Info FROM Resources
```

UNION

SELECT unit AS Info FROM Resources;

-- Find values that are both names and units (for demo)

SELECT name FROM Resources

INTERSECT

SELECT unit FROM Resources;

-- Show pairs of resources that share the same unit

SELECT A.name AS Resource1, B.name AS Resource2, A.unit

FROM Resources A

JOIN Resources B ON A.unit = B.unit AND A.resource\_id <> B.resource\_id;