


```
payload JSON,  
created_at DATETIME(6),  
consumed_at DATETIME(6) DEFAULT NULL,  
consumer_id VARCHAR(100) DEFAULT NULL  
) ENGINE=InnoDB;
```

INSERT

```
CREATE TRIGGER trg_message_arrived  
BEFORE INSERT ON message_queue  
FOR EACH ROW  
BEGIN  
    INSERT INTO consumed_messages (msg_id, topic, payload, created_at)  
    VALUES (NEW.msg_id, NEW.topic, NEW.payload, NEW.created_at);  
END;
```

UPDATE

```
UPDATE consumed_messages  
SET consumed_at = NOW(6),  
    consumer_id = 'worker-01'  
WHERE consumed_at IS NULL  
    AND topic = 'order.created'  
ORDER BY msg_id ASC  
LIMIT 1;
```

LIMIT 1 UPDATE

JSON

MariaDB JSON 10.2

```
INSERT INTO message_queue (msg_id, topic, payload) VALUES (  
    NEXT VALUE FOR msg_sequence,  
    'user.profile.updated',  
    JSON_OBJECT(  
        'user_id', 42,  
        'changes', JSON_ARRAY(  
            JSON_OBJECT('field', 'email', 'old', 'old@mail.com', 'new', 'new@mail.com'),  
            JSON_OBJECT('field', 'name', 'old', 'John', 'new', 'Jonathan')        )  
    )  
);
```

