Assignment 5: Demonstration of Advanced Queries by Unix shell Implementation:

Query 1: List all usernames and passwords of users without names starting with “JJK”

(SELECT user\_username, user\_password

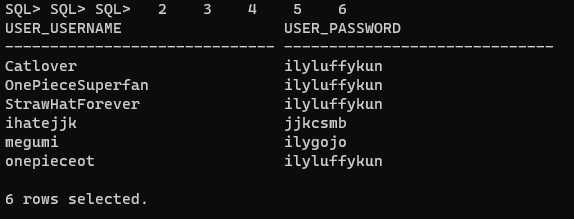
FROM users)

MINUS

(SELECT user\_username, user\_password

FROM users

WHERE user\_name LIKE 'JJK%');



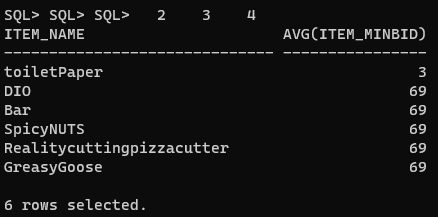
Query 2: List all item names and the average of their minimum bids, group by item names with averages less than 100

SELECT item\_name, AVG(item\_minBid)

FROM items

GROUP BY item\_name

HAVING AVG(item\_minBid) < 100;



Query 3: Check the existence of items with a bid over 5 dollars

SELECT i.item\_id, i.item\_name

FROM items i

WHERE EXISTS(

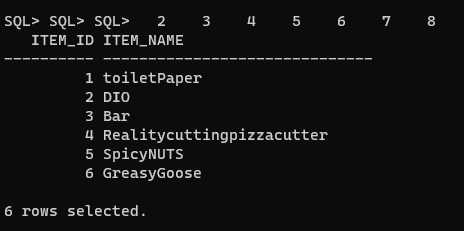
SELECT b.bids\_top

FROM bids b

WHERE b.bids\_top > 5

AND i.item\_id = b.item\_id

);



Query 4: List all item names and descriptions with an end date of '2023-10-11' and '2023-10-28'

SELECT item\_name, item\_description

FROM items

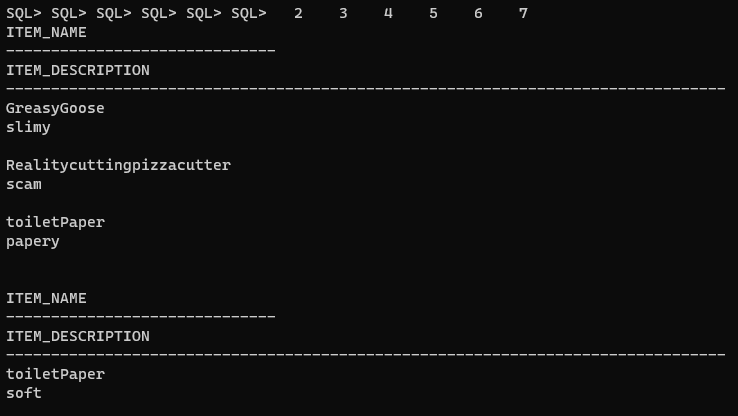
WHERE item\_endDate = '2023-10-11'

UNION

(SELECT item\_name, item\_description

FROM items

WHERE item\_endDate = '2023-10-28');



Query 5: The total number of bids a user has on an item

SELECT u.user\_id, COUNT(b.item\_id) AS total\_bids

FROM pastbids b, users u

WHERE b.item\_id=1

AND u.user\_id = b.user\_id

GROUP BY u.user\_id;

