

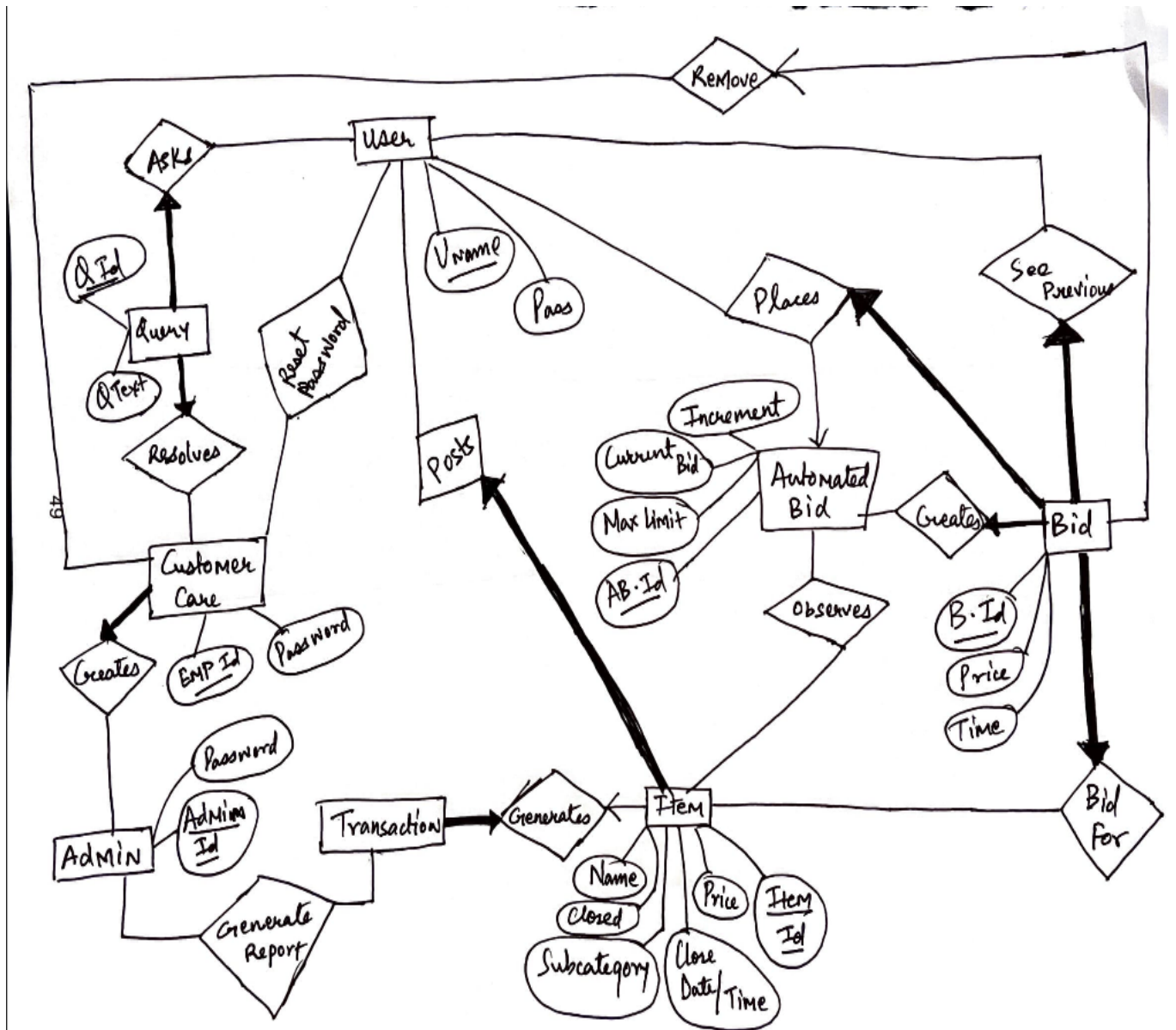
DATABASE SYSTEM FOR DATA SCIENCE
CS 536

PROJECT 1 – PART 1

PROJECT GROUP 8

Zeeshan Ahsan (ZA224)
Raunak Negi (RN444)
Lakshit Pant (LP749)

ENTITY – RELATIONSHIP DIAGRAM OF THE SYSTEM



RELATIONAL SCHEMA OF THE SYSTEM

1. user (uname, pass, PRIMARY KEY (uname))
2. item (item_id, item_name, sub_category, sub_attribute, price, min_sale, dt, closed, PRIMARY KEY(L_id))
3. posts (item_id, username, PRIMARY KEY(item_id), FOREIGN KEY(uname) REFERENCES users(uname), FOREIGN KEY(item_id) REFERENCES item(item_id))
4. bid (b_id, price, time, PRIMARY KEY(b_id))
5. auto_bidding (uname, item_id, increment, max_limit, current_bid, PRIMARY KEY(uname, item_id), FOREIGN KEY(uname) REFERENCES user(uname), FOREIGN KEY (item_id) REFERENCES item(item_id))
6. bids_on (b_id, item_id, PRIMARY KEY(b_id), FOREIGN KEY(item_id) REFERENCES item(item_id), FOREIGN KEY(b_id) REFERENCES bid(b_id))
7. places (b_id, uname, PRIMARY KEY(b_id), FOREIGN KEY(b_id) REFERENCES bids(b_id), FOREIGN KEY(uname) REFERENCES users(uname))
8. admin (admin_id, password, PRIMARY KEY(admin_id))
9. customer_care (emp_id, password, PRIMARY KEY(emp_id))
- 10.admin_creates (admin_id, emp_id, FOREIGN KEY (admin_id) REFERENCES admin(admin_id), FOREIGN KEY(emp_id) REFERENCES customer_care(emp_id))
- 11.query (q_id, q_text, PRIMARY KEY q_id)
- 12.asks (asker, q_id, FOREIGN KEY(asker) REFERENCES user(uname), FOREIGN KEY (q_id) REFERENCES query(q_id))
- 13.resolves (q_id, resolver, resolve_text, FOREIGN KEY(q_id) REFERENCES query(q_id), FOREIGN KEY(resolver) REFERENCES customer_care(emp_id))
- 14.transaction (transaction_id, dtime, amount, PRIMARY KEY(transaction_id))
- 15.generates (transaction_id, item_id, PRIMARY KEY (transaction_id), FOREIGN KEY(item_id) REFERENCES item(item_id), FOREIGN KEY(transaction_id) REFERENCES transaction(transaction_id))