

2a) Student (DOB, hobby, student_id, student_name, door_no, street, city, state, PIN, course_ID)

Course (course_id, course_name)

Lecturer (lecturer_id, lecturer_name, course_ID, student_id)

Subjects (lecturer_ID, subject_ID, subject_name, course_id, lecturer_id)

Attends (student_id, course_id)

Takes (lecturer_id, course_id)

Student_Hobby (student_id, hobby)

2b) *Manufacturer (name, street, city)*

Part (part_num, description, name)

Customer (ID, Name)

Order (order_num, ID, part_num)

Contains (order_num, part_num, quantity)

2c) ship (sname, owner, ship_type, port_visit_start_date, port_pname)

Shiptype (Type, Tonnage, Hull)

Ship_movement (sname, date, time, longitude, latitude)

Port_visit (sname, start_date, end_date, pname)

Port (pname, sname)

3a) 2nf: R1 (eid, pid, btime), R2 (pid, pname), R3 (eid, ename, did, dname)

3NF: R1 (eid, pid, btime), R2 (pid, pname), R3 (eid, ename, did), R4 (did, dname)

3b) 1NF: project (pc, pn, pm, pb), proj_emp_dept (pc, eno, en, dno, dn, hr)

2nf: project (pc, pn, pm, pb), proj_emp (pc, eno, hr), emp_dept (eno, en, dno, dn)

3nf: project (pc, pn, pm, pb), proj_emp (pc, eno, hr), emp (eno, en, dno, dn), dept (dno, dn)

3c) key: sno, sn, cno

1nf: salesperson (sno, sn, sa), salesperson_customer (sno, cno, cn, wno, wl, samt)

2NF: salesperson (sno, sn, sa), sales (sno, cno, samt), customer_warehouse (cno, cn, wno, wl)

3NF: salesperson (sno, sn, sa), sales (sno, cno, samt), customer (cno, cn, wno), warehouse (wno, wl)