

Logical model v.1

User (user_id)

PK: user_id

Customer_rep (employee_number, cr_id, first_name, last_name, department)

PK: employee_number

AK: cr_id

FK: employee_number REFERENCES User(user_id)

Storekeeper (employee_number, sk_id, first_name, last_name, department)

PK: employee_number

AK: sk_id

FK: employee_number REFERENCES User(user_id)

Production_planner (employee_number, pp_id, first_name, last_name, department)

PK: employee_number

AK: pp_id

FK: employee_number REFERENCES User(user_id)

Franchise (customer_id, name, emp_num, shipping_adress, buying_price, contract_start, contract_end)

PK: customer_id

FK emp_num REFERENCES Customer_rep(employee_number)

FK customer_id REFERENCES User(user_id)

Franchise_store(store_id, customer_id)

PK: store_id, customer_id

FK: customer_id REFERENCES Franchise(customer_id)

Individual_store (customer_id, name, emp_num, shipping_adress, buying_price, contract_start, contract_end)

PK: customer_id

FK: emp_num REFERENCES Customer_rep(employee_number)

FK customer_id REFERENCES User(user_id)

Team_skier (customer_id, name, emp_num, dob, club, num_of_skis, contract_start, contract_end)

PK: customer_id

FK: emp_num REFERENCES Customer_rep(employee_number)

FK customer_id REFERENCES User(user_id)

Transporters (user_id, name)

PK: user_id

AK: name

FK: user_id REFERENCES User(user_id)

Driver (driver_id)

PK: driver_id

Shipments (shipment_number, transporter, driver_id, franchise_name, shipping_adress, scheduled_pickup_date, state, transport_company)

PK: shipment_number

FK: transporter REFERENCES Transporters(user_id)

FK: driver_id REFERENCES Driver(driver_id)

Order (order_number, franchise_id, individualStore_id, teamSki_id, s_number, state_change, ski_type, quantity, tot_price, state)

PK: order_number

FK: franchise_id REFERENCES Franchise(customer_id)

FK: individualStore_id REFERENCES Individual_store(customer_id)

FK teamSki_id REFERENCES Team_skier(customer_id)

FK: s_number REFERENCES Shipments(shipment_number)

FK: state_change REFERENCES Customer_rep(employee_number)

Ski (ski_number, emp_num, type_id ,production_date)

PK: ski_number

FK: emp_num REFERENCES Storekeeper(employee_number)

FK: type_id REFERENCES Ski_type(type_id)

Ski_type (type_id, model, type_of_ski, size, description, historical, photo_url, msrpp)

PK: type_id

Production_plans (id, nr_ski_type_everyday, ski_production_everyday, month)

PK: id

Order_skitype (o_num, type, quantity) // many-to-many between order and ski_type

PK: o_num, type

FK: o_num REFERENCES Order(order_number)

FK: type REFERENCES Ski_type(type_id)

Planner_production_plans(emp_num, id) // Many-to-many between prod_planner and prod_plans

PK: emp_num, id

FK: emp_num REFERENCES Production_planner(employee_number)

FK: id REFERENCES Production_plans(id)

Prod_plan_ski_type(id, type, per_day) // Many-to-many between prod_plans and ski_type

PK: id, type

FK: id REFERENCES Production_plans(id)

FK: type REFERENCES Ski_type(type_id)