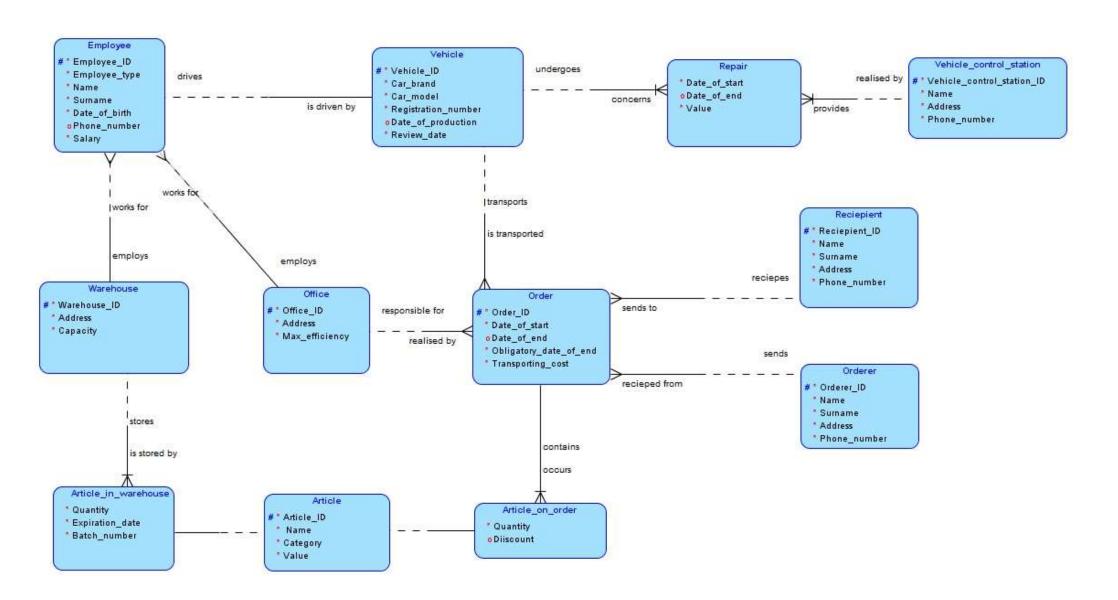
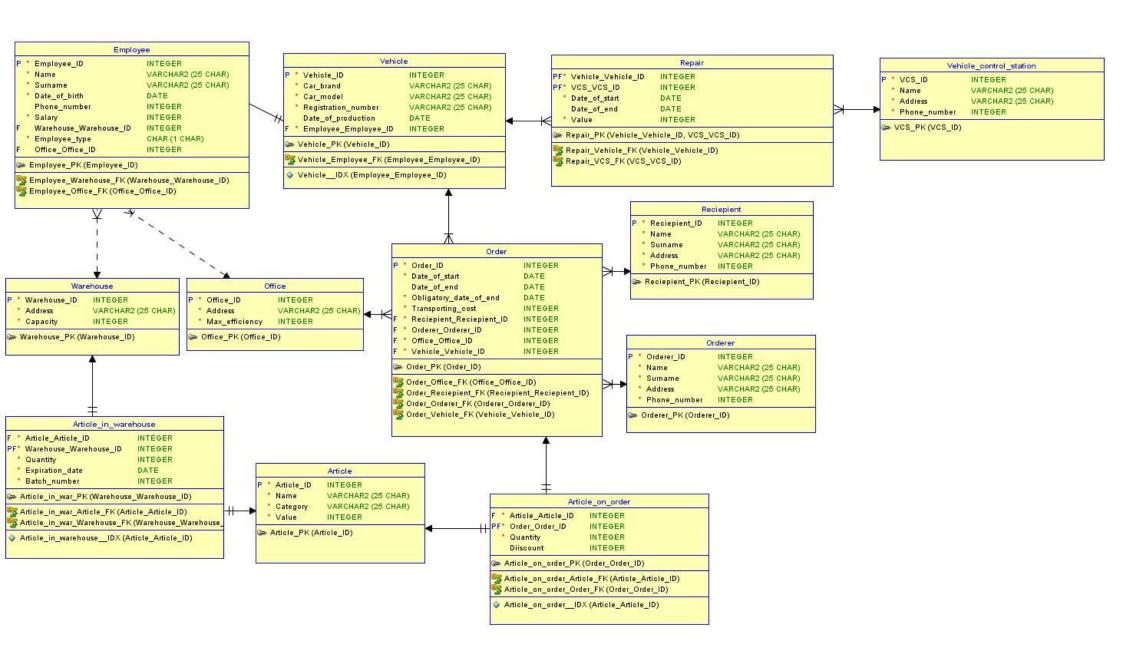
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Temat: Model bazy danych dla firmy transportowej

- 1. Model ER
- 2. Model relacyjny
- 3. Skrypt DDL





```
CREATE TABLE article (
                                                                                  INTEGER
                                                                     diiscount
 article id INTEGER NOT NULL,
           VARCHAR2(25 CHAR) NOT NULL,
  name
 category VARCHAR2(25 CHAR) NOT NULL,
                                                                   CREATE UNIQUE INDEX article on order idx ON
                                                                     article on order (article article id ASC);
 value
          INTEGER NOT NULL
);
                                                                   ALTER TABLE article on order ADD CONSTRAINT
                                                                   article on order pk PRIMARY KEY (order order id);
ALTER TABLE article ADD CONSTRAINT article pk PRIMARY KEY (
article id);
                                                                  CREATE TABLE employee (
CREATE TABLE article in warehouse (
                                                                     employee id
                                                                                       INTEGER NOT NULL,
  article article id
                   INTEGER NOT NULL,
                                                                                    VARCHAR2(25 CHAR) NOT NULL,
                                                                     name
 warehouse_id INTEGER NOT NULL,
                                                                                     VARCHAR2(25 CHAR) NOT NULL,
                                                                     surname
                 INTEGER NOT NULL,
                                                                                       DATE NOT NULL,
  quantity
                                                                     date of birth
  expiration date
                     DATE NOT NULL,
                                                                     phone number
                                                                                         INTEGER,
  batch number
                     INTEGER NOT NULL
                                                                     salary
                                                                                   INTEGER NOT NULL,
                                                                     warehouse warehouse id INTEGER,
);
                                                                     employee type
                                                                                        CHAR(1 CHAR) NOT NULL,
CREATE UNIQUE INDEX article in warehouse idx ON
                                                                     office office id
                                                                                       INTEGER
  article in warehouse (article article id ASC);
                                                                   );
ALTER TABLE article in warehouse ADD CONSTRAINT
                                                                   ALTER TABLE employee ADD CONSTRAINT employee pk PRIMARY
article in war pk PRIMARY KEY (warehouse warehouse id);
                                                                   KEY (employee id);
CREATE TABLE article on order (
                                                                   CREATE TABLE office (
  article article_id INTEGER NOT NULL,
                                                                     office id
                                                                                INTEGER NOT NULL,
  order order id
                  INTEGER NOT NULL,
                                                                                VARCHAR2(25 CHAR) NOT NULL,
                                                                     address
                                                                     max efficiency INTEGER NOT NULL
  quantity
               INTEGER NOT NULL,
```

```
);
                                                                   ALTER TABLE orderer ADD CONSTRAINT orderer pk PRIMARY KEY (
                                                                   orderer id);
ALTER TABLE office ADD CONSTRAINT office pk PRIMARY KEY (
                                                                   CREATE TABLE reciepient (
office id);
                                                                     reciepient id INTEGER NOT NULL,
CREATE TABLE "Order" (
                                                                                VARCHAR2(25 CHAR) NOT NULL,
                                                                     name
 order id
                   INTEGER NOT NULL,
                                                                                 VARCHAR2(25 CHAR) NOT NULL,
                                                                     surname
  date of start
                     DATE NOT NULL,
                                                                                 VARCHAR2(25 CHAR) NOT NULL,
                                                                     address
  date of end
                                                                     phone number INTEGER NOT NULL
                     DATE,
  obligatory date of end DATE NOT NULL,
                                                                   );
 transporting cost
                      INTEGER NOT NULL,
 reciepient_reciepient_id INTEGER NOT NULL,
                                                                   ALTER TABLE reciepient ADD CONSTRAINT reciepient pk PRIMARY
 orderer_orderer id
                       INTEGER NOT NULL,
                                                                   KEY (reciepient id);
  office office id
                     INTEGER NOT NULL,
                                                                   CREATE TABLE repair (
 vehicle vehicle id
                      INTEGER NOT NULL
);
                                                                     vehicle vehicle_id INTEGER NOT NULL,
                                                                     vcs vcs id
                                                                                    INTEGER NOT NULL,
ALTER TABLE "Order" ADD CONSTRAINT order pk PRIMARY KEY (
                                                                     date _of_start
                                                                                     DATE NOT NULL,
order id);
                                                                     date of end
                                                                                     DATE,
                                                                     value
                                                                                  INTEGER NOT NULL
CREATE TABLE orderer (
                                                                   );
  orderer id INTEGER NOT NULL,
            VARCHAR2(25 CHAR) NOT NULL,
                                                                   ALTER TABLE repair ADD CONSTRAINT repair pk PRIMARY KEY (
  name
             VARCHAR2(25 CHAR) NOT NULL,
                                                                   vehicle vehicle id,
  surname
  address
            VARCHAR2(25 CHAR) NOT NULL,
                                                                   vcs vcs id);
  phone number INTEGER NOT NULL
                                                                   CREATE TABLE vehicle (
);
                                                                     vehicle id
                                                                                     INTEGER NOT NULL,
```

```
car brand
                 VARCHAR2(25 CHAR) NOT NULL,
 car model
                  VARCHAR2(25 CHAR) NOT NULL,
                                                                   ALTER TABLE warehouse ADD CONSTRAINT warehouse pk
 registration number VARCHAR2(25 CHAR) NOT NULL,
                                                                   PRIMARY KEY ( warehouse id );
  date of production DATE,
  employee employee id INTEGER NOT NULL
                                                                   ALTER TABLE article in warehouse
);
                                                                     ADD CONSTRAINT article in war article fk FOREIGN KEY (
                                                                   article article id)
CREATE UNIQUE INDEX vehicle idx ON
                                                                       REFERENCES article (article id);
 vehicle (employee employee id ASC);
                                                                   ALTER TABLE article in warehouse
ALTER TABLE vehicle ADD CONSTRAINT vehicle pk PRIMARY KEY (
                                                                     ADD CONSTRAINT article in war warehouse fk FOREIGN KEY (
                                                                   warehouse_id )
vehicle_id );
                                                                       REFERENCES warehouse (warehouse id);
CREATE TABLE vehicle control station (
 vcs id
           INTEGER NOT NULL,
                                                                   ALTER TABLE article on order
            VARCHAR2(25 CHAR) NOT NULL,
                                                                     ADD CONSTRAINT article on order article fk FOREIGN KEY (
  name
            VARCHAR2(25 CHAR) NOT NULL,
                                                                   article article id)
  address
 phone number INTEGER NOT NULL
                                                                       REFERENCES article (article id);
);
                                                                   ALTER TABLE article on order
ALTER TABLE vehicle control station ADD CONSTRAINT vcs pk
                                                                     ADD CONSTRAINT article on order order fk FOREIGN KEY (
PRIMARY KEY (vcs id);
                                                                   order order id)
                                                                       REFERENCES "Order" (order id);
CREATE TABLE warehouse (
 warehouse id INTEGER NOT NULL,
                                                                   ALTER TABLE employee
            VARCHAR2(25 CHAR) NOT NULL,
                                                                     ADD CONSTRAINT employee office fk FOREIGN KEY (
  address
            INTEGER NOT NULL
                                                                   office office id)
 capacity
                                                                       REFERENCES office (office id);
);
```

```
ALTER TABLE employee
 ADD CONSTRAINT employee_warehouse_fk FOREIGN KEY (
warehouse warehouse id)
    REFERENCES warehouse (warehouse id);
ALTER TABLE "Order"
 ADD CONSTRAINT order office fk FOREIGN KEY (office office id
    REFERENCES office (office id);
ALTER TABLE "Order"
 ADD CONSTRAINT order_orderer_fk FOREIGN KEY (
orderer_orderer_id)
    REFERENCES orderer (orderer id);
ALTER TABLE "Order"
 ADD CONSTRAINT order reciepient fk FOREIGN KEY (
reciepient reciepient id)
    REFERENCES reciepient (reciepient id);
ALTER TABLE "Order"
 ADD CONSTRAINT order vehicle fk FOREIGN KEY (
vehicle vehicle id)
    REFERENCES vehicle (vehicle id);
ALTER TABLE repair
 ADD CONSTRAINT repair vcs fk FOREIGN KEY (vcs vcs id)
```

```
REFERENCES vehicle control station (vcs id);
ALTER TABLE repair
  ADD CONSTRAINT repair vehicle fk FOREIGN KEY (
vehicle vehicle id)
    REFERENCES vehicle (vehicle id);
ALTER TABLE vehicle
  ADD CONSTRAINT vehicle employee fk FOREIGN KEY (
employee_employee_id)
    REFERENCES employee (employee id);
```