

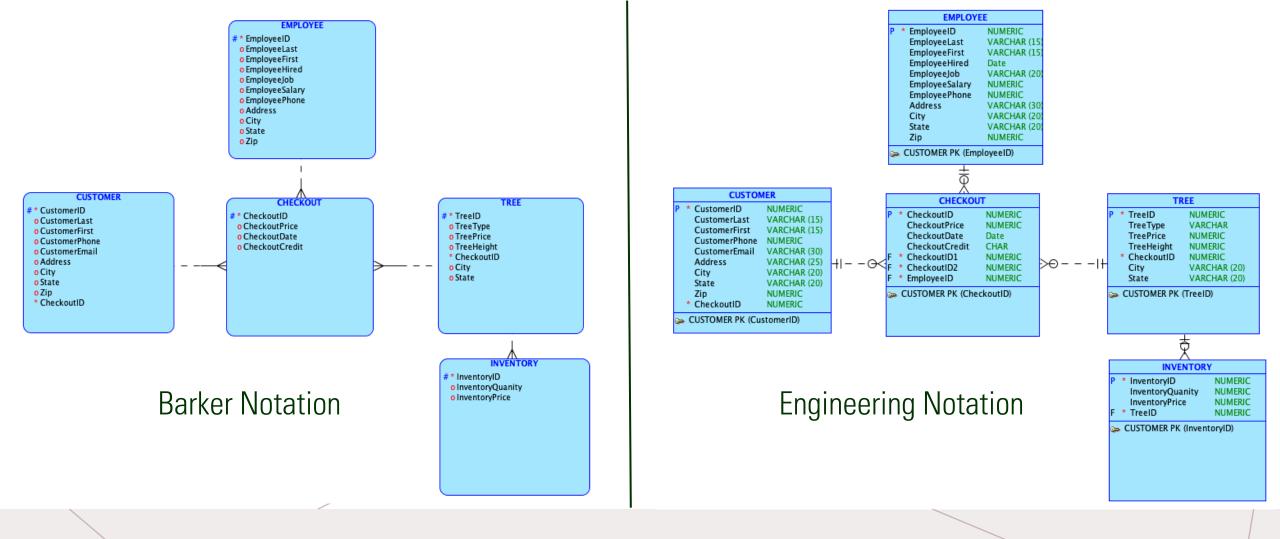
## CHRISTMAS TREE FARM DATABASE

BY: KAITLYN NEWSAD



## PROJECT DESCRIPTION

The N & N Christmas Tree Farm wants a database to display each customer they have had. They also want a reference guide for the types of trees they have. The database should also display each checkout between the customer and the type of tree purchase. The checkout will also show which employee made the sale. They also want to display the employees they have. Lastly, the database to track the inventory of which trees are in stock.



# E-R DIAGRAM

## RELATIONAL SCHEMA

Normalized Relational Schema:

customer (cid, clast, cfirst, cphone, cemail, cAddress, cCity, cState, cZip)

tree (tid, ttype, tCost, theight, tcity, tstate)

employee (eid, elast, efirst, ehired, ejob, salary, ephone, eaddress, ecity, estate, ezip)

inventory (inventoryID, inventoryQuanity, inventoryPrice, tid)

checkout (chid, chpaid, chdate, chCredit, eid, tid, cid)

Note: chCreditCash is a check condition

## **SQL STATEMENT**

Displays the date of the checkout, type of tree, price of tree, and inventory quantity trees based on what type of tree was checked out. The type of tree we are searching for is White Pine.

SELECT chdate AS "Date",
ttype AS "Tree Type",
chpaid AS "Paid",
inventoryQuanity AS "Inventory Quanity"
FROM checkout, inventory, tree
WHERE tree.tid = checkout.tid
AND tree.tid = inventory.tid
AND ttype ='White Pine';

ı	Date	Tree	Туре	Paid	Inventory	Quanity
ı						
ı	12-DEC-20	White	Pine	35		45
ı	19-DEC-20	White	Pine	35		45

### LESSONS LEARNED

Some constraint specification are not allowed at certain places of the code

#### **Before**

CREATE TABLE checkout(

chid NUMBER (3) CONSTRAINT checkout\_chid\_pk PRIMARY KEY,

chpaid NUMBER(4),

chCreditCash CHAR(1) CONSTRAINT checkout\_chCreditCash\_cc CHECK (chCreditCash IN ('Y', 'N')),

chdate DATE,

tid NUMBER(3) CONSTRAINT checkout\_tid FOREIGN KEY (tid) REFERENCES tree(tid),

cid NUMBER(5) CONSTRAINT checkout\_eid FOREIGN KEY (eid) REFERENCES employee(eid),

eid NUMBER(3) CONSTRAINT checkout\_cid FOREIGN KEY (cid) REFERENCES customer(cid)

);

### After

CREATE TABLE checkout(

chid NUMBER (3) CONSTRAINT checkout\_chid\_pk PRIMARY KEY,

chpaid NUMBER(4),

chCreditCash CHAR(1) CONSTRAINT checkout\_chCreditCash\_cc CHECK (chCreditCash IN ('Y', 'N')),

chdate DATE,

tid NUMBER(3),

cid NUMBER(5),

eid NUMBER(3),

CONSTRAINT checkout\_tid FOREIGN KEY (tid) REFERENCES tree(tid),

CONSTRAINT checkout\_cid FOREIGN KEY (cid) REFERENCES customer(cid),

CONSTRAINT checkout\_eid FOREIGN KEY (eid) REFERENCES employee(eid)

)

#### Error you get with the Before Code:

Error report -

ORA-02253: constraint specification not allowed here

02253. 00000 - "constraint specification not allowed here"

\*Cause: Constraint specification is not allowed here in the statement.

\*Action: Remove the constraint specification from the statement.

