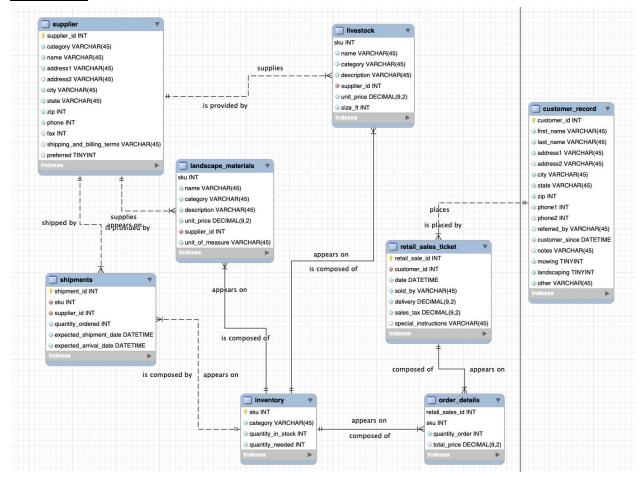
Data Model



Describe

Supplier table

	Field	Туре	Null	Key	Default	Extra
•	supplier_id	int	NO	PRI	NULL	auto_increment
	category	varchar(45)	NO		NULL	
	name	varchar(45)	NO		HULL	
	address1	varchar(45)	NO		NULL	j i
	address2	varchar(45)	YES		NULL	
	city	varchar(45)	NO		NULL	i i
	state	varchar(45)	NO		NULL	1
	zip	int	NO		NULL	Ť i
	phone	int	NO		NULL	
	fax	int	YES		NULL	
	shipping	varchar(45)	YES		NULL	
	preferred	tinyint	YES		NULL	j i

Livestock table

Field	Type	Null	Key	Default	Extra	
sku	int	NO	PRI	NULL		Ī
name	varchar(45)	NO		NULL		Ī
category	varchar(45)	NO		NULL		7
description	varchar(45)	NO	- F	NULL		1
supplier_id	int	NO	MUL	NULL		7
unit_price	decimal(9,2)	NO	0	NULL		1
			**	*		7
	sku name category description supplier_id	sku int name varchar(45) category varchar(45) description varchar(45) supplier_id int	sku int NO name varchar(45) NO category varchar(45) NO description varchar(45) NO supplier_id int NO	sku int NO PRI name varchar(45) NO category varchar(45) NO description varchar(45) NO supplier_id int NO MUL	sku int NO PRI NULL name varchar(45) NO NULL category varchar(45) NO NULL description varchar(45) NO NULL supplier_id int NO MUL NULL	sku int NO PRI NULL name varchar(45) NO NULL category varchar(45) NO NULL description varchar(45) NO NULL supplier_id int NO MUL NULL

Landscape materials table

	Field	Туре	Null	Key	Default	Extra
•	sku	int	NO	PRI	NULL	
	name	varchar(45)	NO	7.	NULL	J.
	category	varchar(45)	NO		NULL	
	description	varchar(45)	NO		NULL	ii.
	unit_price	decimal(9,2)	NO		NULL	
_	supplier_id	int	NO	MUL	NULL	

Customer records table

	Field	Туре	Null	Key	Default	Extra
•	customer_id	int	NO	PRI	HULL	auto_increment
	first_name	varchar(45)	NO		NULL	
	last_name	varchar(45)	NO		NULL	
	address1	varchar(45)	NO		NULL	
	address2	varchar(45)	YES		NULL	
	city	varchar(45)	NO		NULL	
Ì	state	varchar(45)	NO		NULL	
	zip	int	NO		NULL	
	phone1	int	NO		NULL	
	phone2	int	YES		NULL	
	referred_by	varchar(45)	YES		NULL	
	customer	datetime	NO		NULL	
	notes	varchar(45)	YES		NULL	1
	mowing	tinyint	NO		NULL	
	landscaping	tinyint	NO		NULL	
	other	varchar(45)	NO	10	NULL	

Retail sales ticket table

	Field	Туре	Null	Key	Default	Extra
•	retail_sale_id	int	NO	PRI	NULL	auto_increment
100	customer_id	int	NO	MUL	NULL	
	date	datetime	NO		NULL	
	sold_by	varchar(45)	NO		NULL	
	delivery	decimal(9,2)	NO	î	NULL	1
	sales_tax	decimal(9,2)	NO	100	NULL	
	special_instructions	varchar(45)	YES		NULL	
9	7		0	0	0	

Order details table

	Field	Туре	Null	Key	Default	Extra
•	retail_sales_id	int	NO	PRI	NULL	auto_increment
	sku	int	NO	PRI	NULL	
	quantity_order	int	NO		NULL	
	total_price	decimal(9,2)	YES		NULL	

Inventory table

	Field	Туре	Null	Key	Default	Extra
•	sku	int	NO	PRI	NULL	
	category	varchar(45)	NO	1	NULL	
	quantity_in_stock	int	NO		NULL	
	quantity_needed	int	NO		NULL	

Shipment table

	Field	Туре	Null	Key	Default	Extra
•	shipment_id	int	NO	PRI	NULL	auto_increment
	sku	int	NO	MUL	NULL	
	supplier_id	int	NO	MUL	NULL	
	quantity_ordered	int	NO		NULL	
	expected_shipment_date	datetime	NO	- 1	NULL	
	expected_arrival_date	datetime	NO		NULL	

<u>SQL</u>

other)

INSERT INTO customer_record(
first_name,
last_name,
address1,
address2,
city,
state,
zip,
phone1,
phone2,
referred_by,
customer_since,
notes,
mowing,
landscaping,

VALUES ('Jessy', 'Landoz', '1328 Qwerty

DR',NULL,'Denver','Colorado',80231,303857388,NULL,NULL,'2021-03-10',NULL,0,1,0),

```
('Clifford', 'reddawg', 'Red Circle
DR', NULL, 'Glendwood', 'Colorado', 81601, 72097844, NULL, NULL, '2021-01-20', 'lives far
away',0,0,1),
('Wanza','lawp','3433 Westy
DR', NULL, 'Boulder', 'Colorado', 80309, 72098388, NULL, NULL, '2020-08-11', NULL, 1,0,0),
('Bobby','Thanks','9459 LakeView
ST', NULL, 'Westminster', 'Colorado', 80021, 303123456, NULL, NULL, '2010-12-11', NULL, 0, 1, 0),
('Billiam','William','Hocus pokus
DR', NULL, 'Lafayette', 'Colorado', 80026, 720303345, 303456987, 'Bobby', '2021-03-14', NULL, 0, 1, 0
),
('Lily','Park','9876 Gucci
Dr', NULL, 'Denver', 'Colorado', 80034, 303123453, NULL, NULL, '2021-03-14', NULL, 1,0,0);
INSERT INTO inventory
VALUES
       (0095, "Livestock", 10, 5),
  (9747, "Livestock", 15, 0),
  (4683, "Livestock", 23, 2),
  (2009, "Livestock", 2, 20),
  (0898, "Livestock", 10, 5),
  (2704, "Livestock", 27, 0),
  (3993, "Livestock", 20, 5),
  (5301, "Livestock", 18, 7);
INSERT INTO inventory
       VALUES ('4844', 'Landscaping Materials', '50','0'),
  ('3308', 'Landscaping Materials', '0', '100'),
  ('2001', 'Landscaping Materials', '93','7'),
  ('1087', 'Landscaping Materials', '500','0'),
  ('1297', 'Landscaping Materials', '35', '125'),
  ('9812', 'Landscaping Materials', '433', '50');
ALTER TABLE supplier AUTO INCREMENT = 1;
INSERT INTO supplier(category, name, address1, city, state, zip, phone, fax,
shipping and billing terms, preferred)
VALUES
       ("Livestock", "McGinnis Farms Inc.", "1234 Apple St", "Alpharetta", "GA", 32342,
770410388, 770410383, "AP", 1),
  ("Landscaping Materials", "Davidson & Company", "Highway 64 E", "Conway", "AR", 72032,
501327236, 770339089, "DDP", 2);
INSERT INTO livestock
VALUES
       (0095, "Japanese Maple", "Tree", "A maple native to Japan", 1, 149.95, 4),
```

```
(5301, "White Birch", "Tree", "Birch native to Northern America", 1, 200.00, 8),
  (9747, "Weeping Cherry", "Tree", "Tree that produces pink flowers", 1, 179.00, 4),
  (4683, "Camellia 'Anticipation'", "Shrub", "Evergreen shrubs with pink flowers", 1, 45.00,
NULL).
  (2009, "Japanese Yew", "Shrub", "Large shrub native to Japan", 1, 160.00, NULL),
  (0898, "Mock Orange", "Shrub", "Shrub that grows white flowers", 1, 20.00, NULL),
  (2704, "Euonymus alatus 'Monstrosus'", "Perennial", "Corky burning bush", 1, 16.00, NULL),
  (3993, "Rosa villosa", "Perennial", "Apple rose", 1, 23.00, NULL);
INSERT INTO landscape_materials
       VALUES ('4844','Cobblestones','Natural Stone','Hand cut, great for new patio or
walkway','4.98','2', 'pallet'),
  ('3308', 'Fine Hardwood', 'Mulch', 'Premium wood mulch enhances your landscape', '3.33', '2',
'cubic yards'),
  ('2001','Pine Bark, Fine','Mulch','Helps retain water and control weeds','6.49','2', 'cubic yards'),
  ('1087','Barn Red','Gravel','Beautify your landscape with red gravel rocks','7.98','2', 'cubic
  ('1297','Used Railroad Ties (8x8x8)','Timbers','Used railroad ties,
TRACK-EXC-S12A','4.49','2', 'size'),
  ('9812','Diamondstone','Precast Patio Pavers','Perfect for patio and walkways','6.98','2',
'pallet');
INSERT INTO retail_sales_ticket
       VALUES ('1','1','2020-01-15 14:30:12','Frank','21.99','4.12','Review terms'),
  ('2','3','2020-3-29 11:12:55','Frank','15.00','2.59', NULL),
  ('3','5','2020-3-29 14:20:12','Rachel','16.49','3.02','Negotiate terms'),
  ('4','6','2020-3-29 12:34:38','Frank','14.33','2.76', NULL);
INSERT INTO order details(
retail sales id,
sku,
quantity_order,
total price)
VALUES
('1',0095,2,299.90),
('1',5301,1,200.00),
('1',9747,1,179.00),
('1',2009,1,160.00),
('2',4844,2,9.96),
('2',3993,1,23.00),
('2',9812,20,83.76),
```

('2',2704,1,20.00), ('3',1087,10,79.80), ('3',3993,1,23.00), ('3',9747,1,179.00), ('3',2001,93,603.57), ('4',4683,2,90.00), ('4',0898,2,40.00),

('4',5301,2,400.00), ('4',2704,1,23.00);

Queries

10a)

SELECT first_name,last_name,address1,city,state,zip,phone1,phone2 FROM customer_record;

	first_name	last_name	address1	city	state	zip	phone1	phone2
•	Jessy	Landoz	1328 Qwerty DR	Denver	Colorado	80231	303857388	NULL
	Clifford	reddawg	Red Circle DR	Glendwood	Colorado	81601	72097844	NULL
	Wanza	lawp	3433 Westy DR	Boulder	Colorado	80309	72098388	NULL
	Bobby	Thanks	9459 LakeView ST	Westminster	Colorado	80021	303123456	NULL
	Billiam	William	Hocus pokus DR	Lafayette	Colorado	80026	720303345	303456987
	Lily	Park	9876 Gucci Dr	Denver	Colorado	80034	303123453	NULL
						Ĭ.		

10b)SELECT L.category, L.sku, L.description, L.size_ft, I.quantity_in_stock FROM livestock L, inventory I WHERE L.sku = I.sku;

			size_ft quantity_in_stock				
Tree	95	A maple native to Japan	4	10			
Shrub	898	Shrub that grows white flowers	NULL	10			
Shrub	2009	Large shrub native to Japan	NULL	2			
Perennial	2704	Corky burning bush	NULL	27			
Perennial	3993	Apple rose	NULL	20			
Shrub	4683	Evergreen shrubs with pink flowers	NULL	23			
Tree	5301	Birch native to Northern America	8	18			
Tree	9747	Tree that produces pink flowers	4	15			

10c)

SELECT M.category, M.sku, M.description, CONCAT(I.quantity_in_stock," ", M.unit_of_measure) AS "quantity_UOM"
FROM inventory I, landscape_materials M
WHERE I.sku = M.sku

J	category	sku	description	quantity_UOM
٠	Gravel	1087	Beautify your landscape with red gravel rocks	500 cubic yards
	Timbers	1297	Used railroad ties, TRACK-EXC-S12A	35 size
Î	Mulch	2001	Helps retain water and control weeds	93 cubic yards
7	Mulch	3308	Premium wood mulch enhances your landscape	0 cubic yards
1	Natural Stone	4844	Hand cut, great for new patio or walkway	50 pallet
- 9	Precast Patio Pavers	9812	Perfect for patio and walkways	433 pallet

10d)

```
SELECT R.retail_sale_id, R.date, concat(C.first_name, " ", C.last_name) AS "name", concat(C.address1, ", ", C.city, ", ", C.state, " ", C.zip) AS "address", O.quantity_order, O.SKU, ROUND(O.total_price/O.quantity_order, 2) AS "unit_price", O.total_price, R.sales_tax, t.total_ticket_price + R.sales_tax + R.delivery AS "total_ticket_price"

FROM retail_sales_ticket R, customer_record C, order_details O

JOIN(

SELECT SUM(O.total_price) AS "total_ticket_price", O.retail_sales_id

FROM order_details O, retail_sales_ticket R

WHERE R.retail_sale_id = O.retail_sales_id

GROUP BY O.retail_sales_id

)t

WHERE R.retail_sale_id = O.retail_sales_id AND R.customer_id = C.customer_id AND
```

WHERE R.retail_sale_id = O.retail_sales_id AND R.customer_id = C.customer_id AND t.retail_sales_id = O.retail_sales_id

į	retail_sale_id	date	name	address	quantity_order	SKU	unit_price	total_price	sales_tax	total_ticket_price
•	1	2020-01-15 14:30:12	Jessy Landoz	1328 Qwerty DR, Denver, Colorado 80231	2	95	149.95	299.90	4.12	865.01
┪	1	2020-01-15 14:30:12	Jessy Landoz	1328 Qwerty DR, Denver, Colorado 80231	1	2009	160.00	160.00	4.12	865.01
╗	1	2020-01-15 14:30:12	Jessy Landoz	1328 Qwerty DR, Denver, Colorado 80231	1	5301	200.00	200.00	4.12	865.01
╛	1	2020-01-15 14:30:12	Jessy Landoz	1328 Qwerty DR, Denver, Colorado 80231	1	9747	179.00	179.00	4.12	865.01
7	2	2020-03-29 11:12:55	Wanza lawp	3433 Westy DR, Boulder, Colorado 80309	1	2704	20.00	20.00	2.59	154.31
7	2	2020-03-29 11:12:55	Wanza lawp	3433 Westy DR, Boulder, Colorado 80309	1	3993	23.00	23.00	2.59	154.31
7	2	2020-03-29 11:12:55	Wanza lawp	3433 Westy DR, Boulder, Colorado 80309	2	4844	4.98	9.96	2.59	154.31
1	2	2020-03-29 11:12:55	Wanza lawp	3433 Westy DR, Boulder, Colorado 80309	20	9812	4.19	83.76	2.59	154.31
7	3	2020-03-29 14:20:12	Billiam William	Hocus pokus DR, Lafayette, Colorado 80026	10	1087	7.98	79.80	3.02	904.88
7	3	2020-03-29 14:20:12	Billiam William	Hocus pokus DR, Lafayette, Colorado 80026	93	2001	6.49	603.57	3.02	904.88
7	3	2020-03-29 14:20:12	Billiam William	Hocus pokus DR, Lafayette, Colorado 80026	1	3993	23.00	23.00	3.02	904.88
1	3	2020-03-29 14:20:12	Billiam William	Hocus pokus DR, Lafayette, Colorado 80026	1	9747	179.00	179.00	3.02	904.88
1	4	2020-03-29 12:34:38	Lily Park	9876 Gucci Dr, Denver, Colorado 80034	2	898	20.00	40.00	2.76	570.09
1	4	2020-03-29 12:34:38	Lily Park	9876 Gucci Dr, Denver, Colorado 80034	1	2704	23.00	23.00	2.76	570.09
1	4	2020-03-29 12:34:38	Lily Park	9876 Gucci Dr, Denver, Colorado 80034	2	4683	45.00	90.00	2.76	570.09
7	4	2020-03-29 12:34:38	Lily Park	9876 Gucci Dr, Denver, Colorado 80034	2	5301	200.00	400.00	2.76	570.09
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Ħ	(4						7			