

DELHI TECHNOLOGICAL UNIVERSITY

DEPARTMENT OF COMPUTER ENGINEERING



Project File

**Database Management System (DBMS)
CO-202**

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Submitted to:

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COE Dpartment**

ONLINE FOOD SHOP

Introduction:

The Online Food Shop Database is designed to support the operations of an e-commerce platform focused on selling food products. It serves as the backbone for managing customer information, product inventory, orders, and reviews. By organizing and centralizing crucial data, this database facilitates efficient handling of transactions, enhances customer experience, and streamlines business processes.

Problem Statement:

The primary challenge the Online Food Shop Database addresses is the need for a robust and scalable system to manage the complexities of an online food retail business. Key issues include:

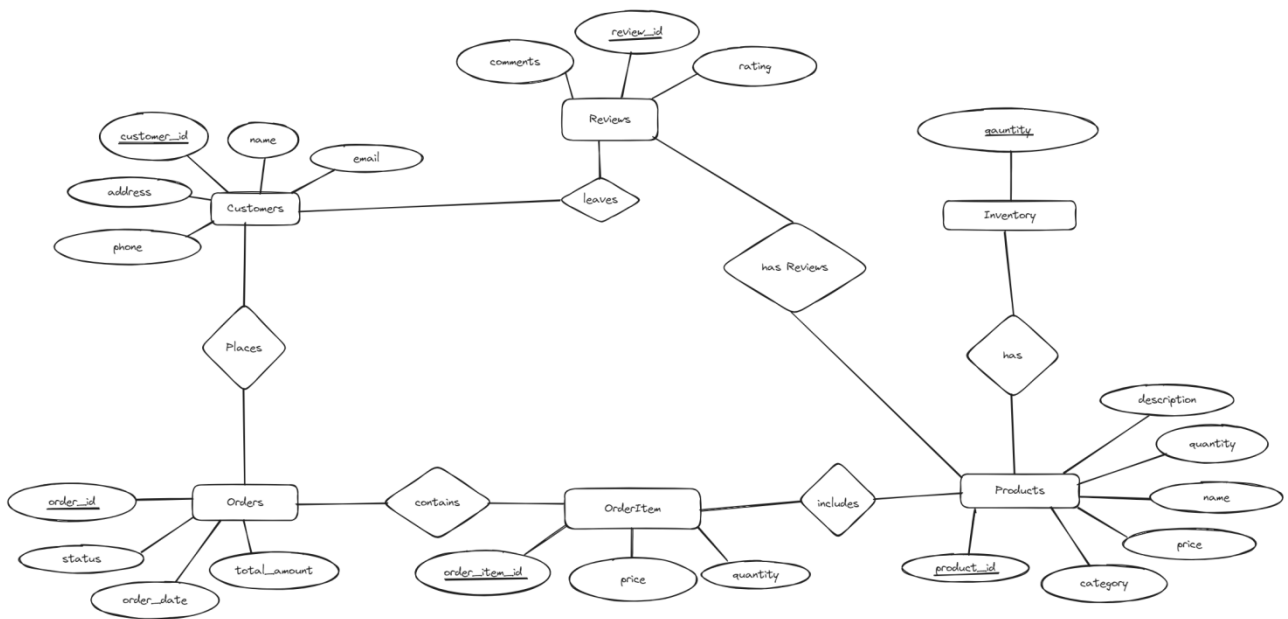
1. **Data Management:** Handling large volumes of data related to customers, products, orders, and inventory while ensuring accuracy and consistency.
2. **Order Processing:** Efficiently processing and tracking customer orders from placement to fulfilment, including inventory management and order status updates.
3. **Customer Experience:** Providing a seamless shopping experience by enabling easy navigation, product search, and secure payment processing.
4. **Inventory Management:** Optimizing inventory levels to prevent stockouts or overstock situations and ensuring timely replenishment of products.
5. **Performance and Scalability:** Designing the database architecture to support high traffic loads, accommodate future growth, and maintain responsiveness.

Future Scope:

The Online Food Shop Database lays the foundation for further enhancements and expansions to meet evolving business needs and technological advancements. Potential areas for future development include:

1. **Advanced Analytics:** Implementing data analytics tools to gain insights into customer behaviour, market trends, and sales patterns for informed decision-making.
2. **Personalization:** Introducing personalized recommendations based on customer preferences, order history, and browsing habits to enhance engagement and increase sales.
3. **Mobile Integration:** Developing mobile applications to extend the reach of the online food shop, enabling customers to browse, order, and track deliveries on-the-go.
4. **Integration with External Systems:** Integrating with third-party services such as payment gateways, delivery logistics, and marketing platforms to streamline operations and enhance capabilities.
5. **Enhanced Security:** Strengthening data security measures to safeguard customer information, financial transactions, and sensitive business data against cyber threats and breaches.

ER Diagram:



Tables:

1.Customer's table:

Query Query History

1 select * from customers;

Data Output Messages Notifications

	customer_id [PK] integer	name character varying (100)	email character varying (100)	address character varying (255)	phone character varying (20)
1	1	Ailina	aitzchaki0@webs.com	3265 Scoville Crossing	205-675-6547
2	2	Terza	tponting1@bigcartel.com	976 Londonderry Center	912-378-2393
3	3	Chrysa	cmacinherney2@fastcompany.com	64691 Pleasure Court	286-751-6640
4	4	Didi	dgravie3@ustream.tv	977 Banding Way	842-141-8468
5	5	Jessy	jminney4@addthis.com	0493 Lakewood Plaza	810-494-7485
6	6	Sophey	sscamp5@hc360.com	07 Meadow Ridge Place	326-101-2487
7	7	Mart	mhourican6@technorati.com	9185 Jay Way	553-378-9551
8	8	Isis	ikochoer7@washington.edu	709 Barnett Drive	661-592-8080
9	9	York	ybroomfield8@cnet.com	257 Loomis Park	673-542-3608
10	10	Lesli	lkersley9@parallels.com	74416 Swallow Street	941-150-8600
11	11	Even	eforda@statcounter.com	81 Thierer Hill	159-448-3280
12	12	Jammie	jmcgreilb@scientificamerican.com	45885 Almo Center	496-622-9047
13	13	Birch	bpersento@clickbank.net	66317 Service Parkway	884-524-3854
14	14	Romeo	rtrumbled@ca.gov	8 Marquette Circle	879-283-0541
15	15	Claudette	ccheesleye@gizmodo.com	334 Lawn Circle	642-800-3256
16	16	Kevyn	kyurshevf@sfgate.com	3 Raven Drive	963-315-9273
17	17	Amity	aleteurtreg@google.ca	443 Sommers Park	257-652-1180
18	18	Cass	cbulfooth@unicef.org	564 Jenna Plaza	552-247-7975
19	19	Keeley	kgirardoti@state.tx.us	6 Caliangt Lane	121-148-7746
20	20	Nikki	nshiellj@seesaa.net	3 Dahle Center	765-483-7258
21	21	Barbi	bskotcherk@ihg.com	96662 Corben Pass	710-784-7490
22	22	Hartley	hentwislel@yale.edu	248 Talmadge Trail	959-589-8962
23	23	Quinn	qbaumaierm@abc.net.au	19 Jackson Pass	608-525-3978

Total rows: 500 of 500 Query complete 00:00:00.339 Ln 1, Col 25

2.Product’s table:

QueryQuery History

1select * from products;

Data OutputMessagesNotifications

	product_id [PK] integer	name character varying (100)	description text	price numeric (10,2)	category character vary
1	291	Pizza Margherita	Classic pizza topped with tomato sauce, mozzarella cheese, and basil leaves.	10.99	Pizza
2	292	Chicken Tikka Masala	Tender chicken pieces cooked in a creamy tomato-based sauce with Indian spices.	12.99	Curry
3	293	Spaghetti Carbonara	Spaghetti pasta served with creamy bacon and Parmesan cheese sauce.	9.99	Pasta
4	294	Cheeseburger	Juicy beef patty topped with cheese, lettuce, tomato, onion, and pickles, served in a sesame seed bun.	8.99	Burger
5	295	Sushi Combo	Assortment of fresh sushi rolls including California roll, tuna roll, and salmon nigiri.	14.99	Sushi
6	296	Caesar Salad	Crisp romaine lettuce tossed with Caesar dressing, croutons, and Parmesan cheese.	7.99	Salad
7	297	Pad Thai	Stir-fried rice noodles with shrimp, tofu, bean sprouts, egg, and peanuts, seasoned with tamarind sauce.	11.99	Noodles
8	298	Fish and Chips	Deep-fried battered fish served with crispy fries and tartar sauce.	10.99	Seafood
9	299	Vegetable Stir Fry	Assorted vegetables stir-fried in a savory sauce, served with steamed rice.	9.99	Vegetarian
10	300	BBQ Ribs	Tender pork ribs smothered in barbecue sauce, served with coleslaw and baked beans.	15.99	BBQ
11	301	Mushroom Risotto	Creamy Italian rice dish cooked with mushrooms, onions, garlic, and Parmesan cheese.	12.99	Risotto
12	302	Beef Fajitas	Sizzling skillet of beef strips, bell peppers, and onions, served with tortillas, salsa, and guacamole.	13.99	Mexican
13	303	Chicken Caesar Wrap	Grilled chicken, romaine lettuce, Parmesan cheese, and Caesar dressing wrapped in a flour tortilla.	7.99	Wrap
14	304	Lemon Pepper Chicken	Grilled chicken breast seasoned with lemon pepper seasoning, served with roasted vegetables.	11.99	Grilled
15	305	Vegetable Pizza	Freshly made pizza topped with a variety of vegetables including bell peppers, onions, olives, and mushrooms.	10.99	Pizza
16	306	Chocolate Brownie Sundae	Warm chocolate brownie topped with vanilla ice cream, chocolate sauce, whipped cream, and a cherry.	6.99	Dessert
17	307	Pho	Vietnamese noodle soup made with beef broth, rice noodles, thinly sliced beef, and fresh herbs.	9.99	Soup
18	308	Tandoori Chicken	Marinated chicken cooked in a tandoor oven, served with rice, naan bread, and mint chutney.	12.99	Indian
19	309	Vegetarian Burrito	Large flour tortilla stuffed with rice, beans, cheese, vegetables, salsa, and sour cream.	8.99	Burrito
20	310	Garden Burger	Grilled veggie burger patty topped with lettuce, tomato, onion, and avocado, served on a whole wheat bun.	9.99	Burger
21	311	Margarita Pizza	Traditional Italian pizza topped with tomato sauce, mozzarella cheese, and fresh basil.	10.99	Pizza
22	312	Veggie Sushi Roll	Sushi roll filled with cucumber, avocado, carrot, and cream cheese, wrapped in seaweed and rice.	8.99	Sushi
23	313	Greek Salad	Fresh salad made with tomatoes, cucumbers, red onion, Kalamata olives, and feta cheese, dressed with olive oil and oregano.	7.99	Salad

Total rows: 200 of 200Query complete 00:00:00.139Ln 1, Col 23

3.Order’s table:

QueryQuery History

1select * from orders;

Data OutputMessagesNotifications

	order_id [PK] integer	customer_id integer	order_date timestamp without time zone	total_amount numeric (10,2)	status character varying (50)
1	68	1	2024-04-19 09:17:48.066287	45.97	Pending
2	69	2	2024-04-19 09:17:48.066287	32.97	Completed
3	70	3	2024-04-19 09:17:48.066287	28.98	Pending
4	71	4	2024-04-19 09:17:48.066287	37.97	Completed
5	72	5	2024-04-19 09:17:48.066287	21.98	Pending
6	73	6	2024-04-19 09:29:02.34347	55.96	Pending
7	74	7	2024-04-19 09:29:02.34347	39.96	Completed
8	75	8	2024-04-19 09:29:02.34347	34.97	Pending
9	76	9	2024-04-19 09:29:02.34347	47.96	Completed
10	77	10	2024-04-19 09:29:02.34347	27.98	Pending
11	78	1	2024-04-19 09:29:02.34347	45.97	Pending
12	79	2	2024-04-19 09:29:02.34347	32.97	Completed
13	80	3	2024-04-19 09:29:02.34347	28.98	Pending
14	81	4	2024-04-19 09:29:02.34347	37.97	Completed
15	82	5	2024-04-19 09:29:02.34347	21.98	Pending
16	83	6	2024-04-19 09:29:02.34347	55.96	Pending
17	84	7	2024-04-19 09:29:02.34347	39.96	Completed
18	85	8	2024-04-19 09:29:02.34347	34.97	Pending
19	86	9	2024-04-19 09:29:02.34347	47.96	Completed
20	87	10	2024-04-19 09:29:02.34347	27.98	Pending
21	88	1	2024-04-19 09:29:02.34347	45.97	Pending
22	89	2	2024-04-19 09:29:02.34347	32.97	Completed
23	90	3	2024-04-19 09:29:02.34347	28.98	Pending

Total rows: 99 of 99Query complete 00:00:00.160

4.Order Item's Table:

Query

Query History

```
1 select * from orderitems;
```

Data Output

Messages

Notifications

	order_item_id [PK] integer	order_id integer	product_id integer	quantity integer	price numeric (10,2)
1	772	68	291	2	21.98
2	773	68	292	1	7.99
3	774	69	293	1	12.99
4	775	69	294	1	9.99
5	776	69	295	1	6.99
6	777	70	296	1	9.99
7	778	70	297	2	17.98
8	779	71	298	1	14.99
9	780	71	299	1	8.99
10	781	71	300	1	5.99
11	782	72	291	2	17.98
12	783	72	300	1	5.99
13	784	73	291	2	21.98
14	785	73	292	1	7.99
15	786	74	293	1	12.99
16	787	74	294	1	9.99
17	788	74	295	1	6.99
18	789	75	296	1	9.99
19	790	75	297	2	17.98
20	791	76	298	1	14.99
21	792	76	299	1	8.99
22	793	76	300	1	5.99
23	794	77	291	2	17.98

Total rows: 211 of 211

Query complete 00:00:00.133

Ln 1, Col 25

5.Inventory table:

Query

Query History

1 **select** * **from** inventory;

Data Output

Messages

Notifications

	product_id [PK] integer	quantity integer
1	291	50
2	292	30
3	293	40
4	294	60
5	295	25
6	296	35
7	297	20
8	298	45
9	299	55
10	300	30
11	301	35
12	302	40
13	303	25
14	304	50
15	305	30
16	306	40
17	307	60
18	308	25
19	309	35
20	310	20
21	311	45
22	312	55
23	313	30

Total rows: 50 of 50

Query complete 00:00:00.113

Ln 1, Col 24

6.Review’s table:

QueryQuery History

1select * from reviews;

Data OutputMessagesNotifications

	review_id [PK] integer	product_id integer	customer_id integer	rating integer	comment text
1	103	291	101	5	Absolutely delicious! The flavors are amazing and the portion size is generous.
2	104	291	102	4	Good quality ingredients and well-prepared. Would definitely order again.
3	105	291	103	5	This dish exceeded my expectations! The sauce was rich and flavorful.
4	106	292	104	4	Tasty and authentic! Reminds me of the Chicken Tikka Masala I had in India.
5	107	292	105	5	One of the best Chicken Tikka Masalas I have ever had!
6	108	292	106	3	Decent flavor but could be a bit spicier for my taste.
7	109	293	107	5	The Spaghetti Carbonara was divine! Creamy and savory, just like it should be.
8	110	293	108	4	Really enjoyed this classic dish. The portion was perfect for one person.
9	111	293	109	5	I love the simplicity of Spaghetti Carbonara. This one did not disappoint.
10	112	300	110	5	The Caesar Salad was fresh and crisp. The dressing had the perfect tanginess.
11	113	300	111	4	Good portion size and fresh ingredients. Enjoyed it as a light lunch.
12	114	300	112	5	Classic Caesar Salad done right! I would order it again.
13	115	301	113	5	Pad Thai is always a favorite of mine, and this one was fantastic!
14	116	301	114	3	Decent Pad Thai, but I prefer it with more peanuts and lime.
15	117	301	115	4	Enjoyed the flavors of the Pad Thai, but it was a bit greasy for my liking.
16	118	308	116	5	The Fish and Chips were crispy on the outside and tender on the inside. Perfect!
17	119	308	117	4	Solid Fish and Chips. The fish was flaky and the fries were delicious.
18	120	308	118	5	Best Fish and Chips I have had in a long time! Will definitely order again.
19	121	309	119	3	The Vegetable Stir Fry was okay. A bit bland for my taste.
20	122	309	120	4	Good selection of vegetables in the stir fry. Healthy and tasty!
21	123	309	121	5	I loved the freshness of the vegetables in this stir fry. Great vegetarian option.
22	124	316	122	5	BBQ Ribs were fall-off-the-bone tender and the sauce was finger-licking good!
23	125	316	123	4	Enjoyed the BBQ Ribs. The portion was generous and the flavor was delicious.

Total rows: 102 of 102Query complete 00:00:00.148Ln 1, Col 22