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Zomato Database



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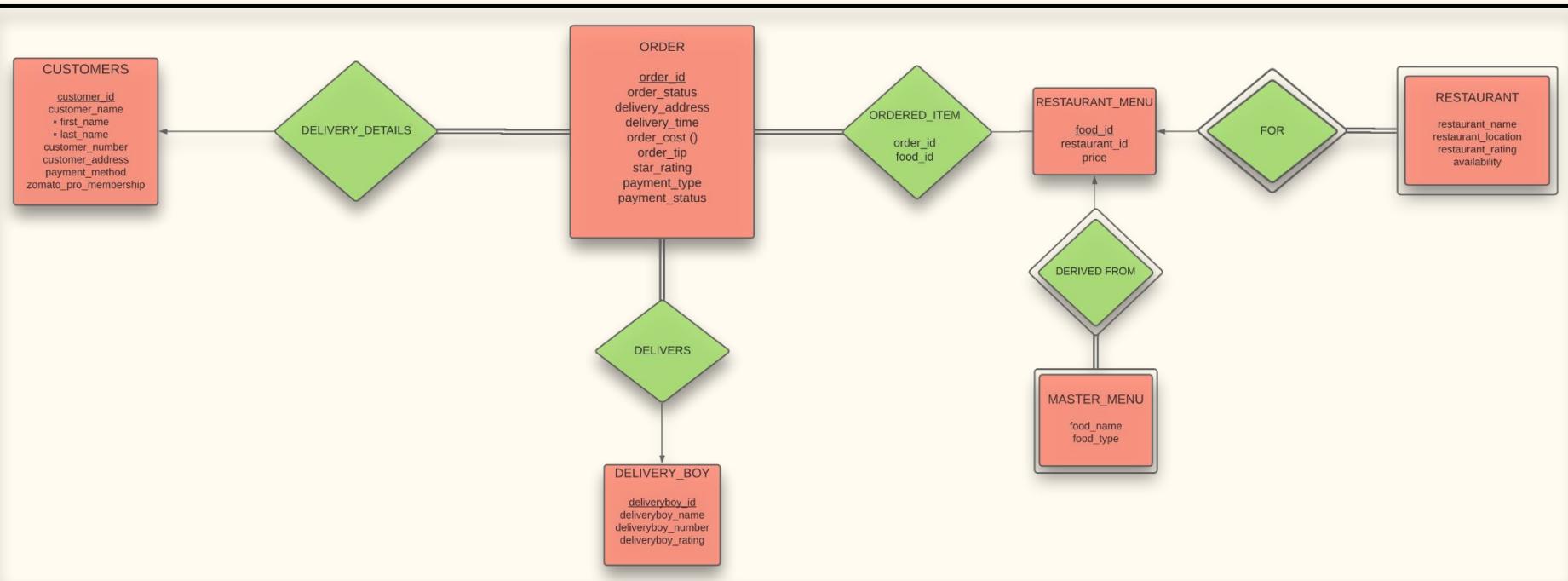
## Objective:

- To build a dummy database for Zomato with multiple tables and find the answers for given RA Expressions and SQL Queries.

## Strategy:

- Created Schemas and defined constraints, Primary Key and Foreign Key.
- Created Entity-Relationship diagram for given schemas.
- Inserted tuples into the tables.
- Given queries and get desired results.

# Entity-relationship diagram



# **SCHEMAS**

# Schemas

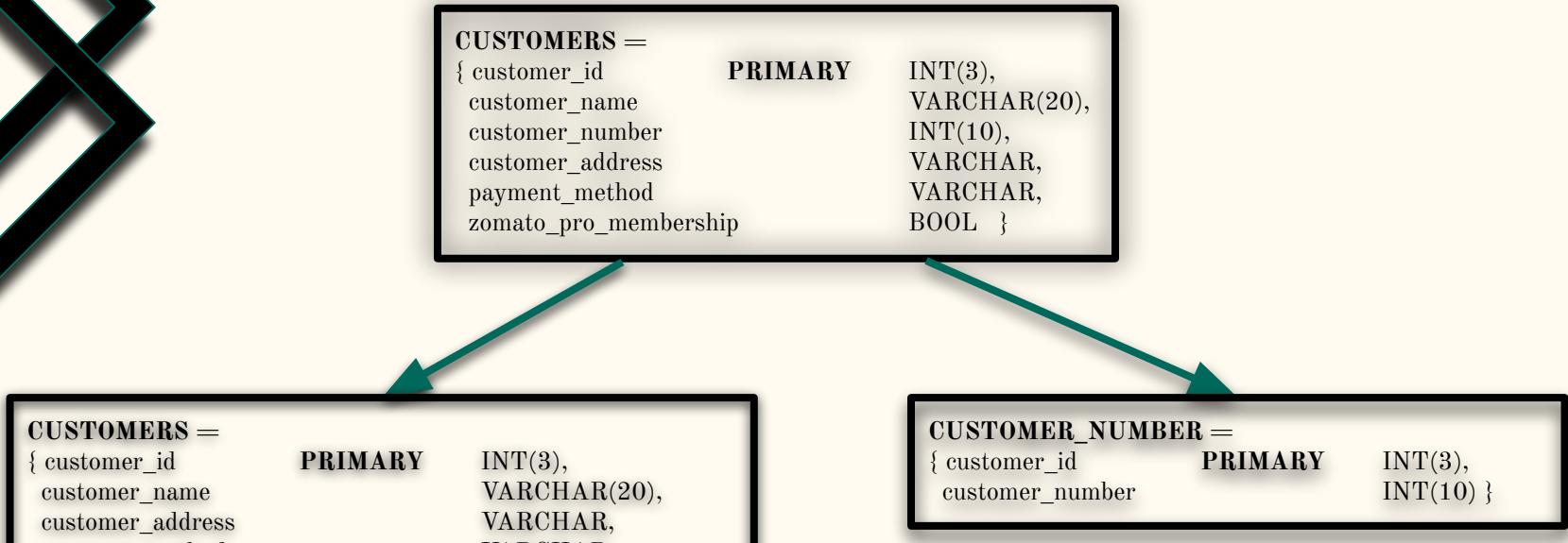
```
1. CUSTOMERS =  
{ customer_id      PRIMARY INT(3),  
  customer_name          VARCHAR(20),  
  customer_number        INT(10),  
  customer_address       VARCHAR,  
  payment_method        VARCHAR,  
  zomato_pro_membership BOOL      }
```

- Functional Dependencies

{ Customer\_id  $\rightarrow$  customer\_name, customer\_address, payment\_method,  
zomato\_pro\_membership, customer\_number }

1. For 1NF all attributes are assumed to be atomic but customer\_number is multivalued and hence needs to be reduced to a different table

# Normalization of Customers



1. Now in 1NF as attributes are assumed to be atomic.
2. Now in 2NF as candidate key is made up of a single attribute.
3. No non prime attribute depends on any other non prime attribute and hence in 3NF.
4. All attributes depend only on the candidate key hence in BCNF.

1. Now in 1NF as attributes are assumed to be atomic.
2. Now in 2NF as candidate key is made up of a single attribute.
3. No non prime attribute depends on any other non prime attribute and hence in 3NF.
4. All attributes depend only on the candidate key hence in BCNF.

# Schemas

## 2. DELIVERY\_BOY =

```
{ deliveryboy_id      PRIMARY INT(4),  
  deliveryboy_name    VARCHAR(20),  
  deliveryboy_number   INT(10),  
  deliveryboy_rating   DECIMAL(2,1) }
```

- **Functional Dependencies**

```
{ delivery_id -> deliveryboy_name, delivery_rating, deliveryboy_number }
```

1. For 1NF all attributes are assumed to be atomic but  
deliveryboy\_number is multivalued and hence needs to be reduced to a  
different table

# Normalization of Delivery\_Boy

**DELIVERY\_BOY =**

```
{ deliveryboy_id      PRIMARY    INT(4),  
  deliveryboy_name    VARCHAR(20),  
  deliveryboy_number   INT(10),  
  deliveryboy_rating   DECIMAL(2,1) }
```

**DELIVERY\_BOY =**

```
{ deliveryboy_id      PRIMARY    INT(4),  
  deliveryboy_name    VARCHAR(20),  
  deliveryboy_rating   DECIMAL(2,1) }
```

**DELIVERY\_BOY\_NUMBER =**

```
{ deliveryboy_id      PRIMARY    INT(4),  
  deliveryboy_number   INT(10) }
```

1. Now in 1NF as attributes are assumed to be atomic.
2. Now in 2NF as candidate key is made up of a single attribute.
3. No non prime attribute depends on any other non prime attribute and hence in 3NF.
4. All attributes depend only on the candidate key hence in BCNF.

1. Now in 1NF as attributes are assumed to be atomic.
2. Now in 2NF as candidate key is made up of a single attribute.
3. No non prime attribute depends on any other non prime attribute and hence in 3NF.
4. All attributes depend only on the candidate key hence in BCNF.

# Schemas

```
3. RESTAURANT_MENU =  
{ food_id           PRIMARY   INT(5),  
  restaurant_id      INT(6),  
  price              DECIMAL(6,2) }
```

- Functional Dependencies

{ food\_id, restaurant\_id -> price }

1. Already in 1NF as attributes are assumed to be atomic.
2. Already in 2NF as no partial dependency exists.
3. No non prime attribute depends on any other non prime attribute and hence in 3NF.
4. All attributes depend only on the candidate key hence in BCNF.

# Schemas

```
4. RESTAURANT =  
{ restaurant_id PRIMARY FOREIGN INT(6),  
  restaurant_name VARCHAR(50),  
  restaurant_location VARCHAR,  
  restaurant_rating DECIMAL(2,1),  
  available BOOL }
```

- **Functional Dependencies:**

{ restaurant\_id  $\rightarrow$  restaurant\_name, restaurant\_location, restaurant\_rating, availability }

1. **It is a weak Entity set.**
2. Already in 1NF as attributes are assumed to be atomic.
3. Already in 2NF as candidate key is made up of a single attribute.
4. No non prime attribute depends on any other non prime attribute and hence in 3NF.
5. All attributes depend only on the candidate key hence in BCNF.

# Schemas

5. ORDER =	PRIMARY KEY	
{ order_id	INT(8),	
customer_id	INT(3),	
deliveryboy_id	INT(4),	
order_status	BOOL,	
delivery_address	VARCHAR,	
delivery_time	DATETIME,	
order_cost	DECIMAL(6,2),	
order_tip	DECIMAL(5,2),	
star_rating	DECIMAL(2,1),	
payment_type	VARCHAR	
payment_status	BOOL }	

- Functional Dependencies:

{ order\_id  $\rightarrow$  deliveryboy\_id, order\_status, payment\_status, payment\_type, delivery\_time, delivery\_address, order\_tip, star\_rating }

1. Already in 1NF as attributes are assumed to be atomic.
2. Already in 2NF as candidate key is made up of a single attribute.
3. No non prime attribute depends on any other non prime attribute and hence in 3NF.
4. All attributes depend only on the candidate key hence in BCNF.

# Schemas

## 6. MASTER\_MENU =

{ food_id	PRIMARY FOREIGN	INT(5),
food_name		VARCHAR,
food_type		VARCHAR }

- **Functional Dependencies:**

{ food\_id  $\rightarrow$  food\_name, food\_type }

1. It is a Weak Entity Set.
2. Already in 1NF as attributes are assumed to be atomic.
3. Already in 2NF as candidate key is made up of a single attribute.
4. No non prime attribute depends on any other non prime attribute and hence in 3NF.
5. All attributes depend only on the candidate key hence in BCNF.

# Schemas

```
7. ORDERED_ITEM =  
  { order_id      PRIMARY   INT(8),  
    food_id       PRIMARY   INT(5),  
    price          DECIMAL(6,2) }
```

- Functional Dependencies  
 $\{ \emptyset \}$  (\*No Dependency\*)
1. It is a Relationship.
  2. Already in 1NF as attributes are assumed to be atomic.
  3. In 2NF as no partial dependency exists.
  4. No non prime attribute depends on any other non prime attribute and hence in 3NF.
  5. In BCNF as each attribute is only identified by the candidate key.

# Data of CUSTOMERS

customer_id	customer_name	customer_address	payment_method	zomato_pro_membership
101	Amit	C 1, Kiran Samarak Sadan, Delhi	COD	t
102	Tommy	F 11-12, Phase 1, Triveni Complex, Sheikh Sarai,Delhi	UPI	t
103	John	433, Katra Nabi Bux, Sadar Bazar, Delhi	Wallet	f
104	Venti	772, Sector 15 Block A, Faridabad,Delhi	COD	t
105	Harsh	1210 12th Floor, Kailash Building, K G Marg,Delhi	Wallet	t
106	Shalu	A/88, Part,1,Delhi	UPI	f
107	Shama	C 1, New Subzi Mandi, Azadpur,Delhi	COD	f
108	Deepanshu	21, Msm Market, Kashmere Gate, Delhi	UPI	f
109	Shreya	18, East Vinod Nagar, Mayur Vihar, Delhi	COD	t
110	Dron	303, Part 1, Gurgaon, Gurgaon	UPI	f
111	Aman	3949/3, Ishwar Market, Gali Satte Wali, Nai Sarak, Delhi	Debit Card	t
112	Robin	251, Clock Tower, Ghaziabad, Ghaziabad,Delhi	COD	t
113	Garima	C 36 Sector 57,Delhi	Debit Card	f
114	Parth	Bunglow No D 10, Pandav Nagar,Delhi	COD	f
115	Sammer	C1/d, Green Park,Delhi	Credit Card	t
116	Atharv	Shop No 2374, H B Colony, Dividing Road, Faridabad	COD	t
117	Raghu	73, Main Bazar,Delhi	Credit Card	f
118	Jack	3rd Floor, 61 Ifci Tower,Delhi	Net Banking	t
119	Ayan	14, R K Puram,Delhi	COD	f
120	Yogesh	P1 No 94-95, Shahada Bagh, Inderlok,Delhi	UPI	f

(20 rows)

Data of CUSTOMER\_number

customer_id	customer_number
101	9123943224
102	7226124127
103	7228838649
104	7024610976
105	9228520817
106	9228192586
107	9226701966
108	9232521312
109	9223827393
110	9123542205
111	8223462409
112	7424340691
113	9223410004
114	9228345256
115	9265554760
116	8225164216
117	9225335643
118	7226591637
119	8227455715
120	9228110078
102	9876598765

(21 rows)

Data of DELIVERY\_BOY

deliveryboy_id	deliveryboy_name	deliveryboy_rating
1001	Anant	4.8
1002	Pratul	4.2
1003	Ishan	3.9
1004	Vishwas	4.6
1005	Gaurav	3.5
1006	Pratham	2.0
1007	Rampal	4.5

(7 rows)

Data of DELIVERYBOY\_number

deliveryboy_id	deliveryboy_number
1001	9785640207
1002	9753100919
1003	9988416485
1004	8094612753
1005	9306764681
1006	9391898264
1007	9340795918

(7 rows)

(5 rows)

816267046 | 7001

Data of MASTER\_MENU

food_id	food_name	food_type
10001	Chole Khulche	Main Course
10002	Pav Bhaji	Main Course
10003	Masala Dosa	Main Course
10004	Amritsari Naan	Main Course
10005	Dal Makhni	Main Course
10006	Red Lobster	Main Course
10007	Dal Bati	Main Course
10008	Shahi Panner	Main Course
10009	Kadai Paneer	Main Course
10010	Malai Kofta	Main Course
10011	Butter Paneer Masala	Main Course
10012	Kulche	Main Course
10013	Chole Bature	Main Course
10014	Lacha Paratha	Main Course
10015	Ras Malai	Dessert
10016	Gulab Jamun	Dessert
10017	Ice Cream	Dessert
10018	Rasgulla	Dessert
10019	Manchurian	Starter
10020	Honey Chilli Potato	Main Course
10021	Masala Chai	Drink
10022	Latte	Drink
10023	Cold Coffee	Drink
10024	Mountain Dew Ice	Drink
10025	Red Bull	Drink
10026	Sabudana Tikki	Starter
10027	Seekh Kabab	Starter
10028	Paneer Tikka	Starter
10029	Veg Spring Rolls	Starter
10030	Lemon Ice Tea Mojito	Drink

(30 rows)

# Data of ORDERS

order_id	deliveryboy_id	order_status	delivery_address	delivery_time	order_cost	order_tip	star_rating	payment_type	payment_status	customer_id
20210115	1002	t	14, R K Puram,Delhi	2021-06-14 12:35:29.123	150.21	0.00	4.2	COD	t	119
20210116	1003	t	3949/3, Ishwar Market, Gali Satte Wali, Nai Sarak, Delhi	2021-06-22 12:12:43.431	523.00	42.23	3.6	Debit Card	f	111
20210117	1004	f	18, East Vinod Nagar, Mayur Vihar, Delhi	2021-06-19 18:32:12.233	855.36	15.32	3.3	UPI	t	109
20210118	1005	t	P1 No 94-95, Shahada Bagh, Inderlok,Delhi	2021-06-20 13:30:26.22	152.52	30.00	4.5	COD	t	126
20210119	1006	f	3949/3, Ishwar Market, Gali Satte Wali, Nai Sarak, Delhi	2021-06-24 10:33:47.193	568.10	52.43	4.3	Wallet	f	111
20210120	1007	t	C 36 Sector 57,Delhi	2021-06-18 13:23:37.753	120.50	0.00	5.0	COD	t	113
20210121	1001	t	Bunglow No D 10, Pandav Nagar,Delhi	2021-06-22 12:35:34.144	122.36	20.00	4.1	UPI	f	114
20210122	1002	f	Bunglow No D 10, Pandav Nagar,Delhi	2021-06-15 14:54:22.895	158.32	15.00	5.0	UPI	t	114
20210123	1003	t	P1 No 94-95, Shahada Bagh, Inderlok,Delhi	2021-06-16 14:25:34.976	2000.12	30.00	3.9	COD	t	128
20210124	1004	f	18, East Vinod Nagar, Mayur Vihar, Delhi	2021-06-15 04:22:19.157	514.88	50.00	4.7	COD	t	109
20210125	1007	t	73, Main Bazar,Delhi	2021-06-23 16:35:34.104	534.23	35.00	3.5	Debit Card	t	117
20210126	1005	f	14, R K Puram,Delhi	2021-06-26 17:40:36.115	985.36	15.54	4.1	Net Banking	f	119
20210127	1007	f	18, East Vinod Nagar, Mayur Vihar, Delhi	2021-06-23 19:17:27.198	556.11	30.00	4.7	UPI	t	109
20210128	1001	t	1210 12th Floor, Kailash Building, K 6 Marg,Delhi	2021-06-30 18:41:38.119	513.45	32.42	4.7	COD	t	105
20210129	1003	f	251, Clock Tower, Ghaziabad, Ghaziabad,Delhi	2021-05-29 15:23:52.123	417.10	34.24	3.9	Debit Card	t	112
20210130	1003	f	C 36 Sector 57,Delhi	2021-06-30 19:38:51.121	2313.12	50.00	4.9	COD	t	113
20210131	1001	t	21, Msm Market, Kashmere Gate, Delhi	2021-06-28 20:42:50.126	2569.69	100.36	3.5	UPI	f	108
20210132	1002	f	F 11-12, Phase 1, Triveni Complex, Sheikh Sarai,Delhi	2021-06-12 20:41:12.341	92.11	2.00	2.3	Debit Card	f	102
20210133	1007	t	C 1, Kiran Samarak Sadan, Delhi	2021-06-13 10:10:59	456.55	56.34	2.6	Wallet	t	101
20210134	1007	t	C1/d, Green Park,Delhi	2021-06-13 20:08:52.125	1299.00	125.67	4.7	UPI	t	115
20210135	1005	f	C 1, Kiran Samarak Sadan, Delhi	2021-06-13 21:00:49.132	646.53	41.30	3.2	COD	t	101
20210136	1002	t	3949/3, Ishwar Market, Gali Satte Wali, Nai Sarak, Delhi	2021-06-27 07:57:54.783	352.54	45.80	4.2	Wallet	f	111
20210137	1003	f	73, Main Bazar,Delhi	2021-06-10 21:32:21.313	425.23	54.56	3.6	Credit Card	t	117
20210138	1007	t	C1/d, Green Park,Delhi	2021-05-10 15:44:21.894	321.43	10.40	4.1	Credit Card	f	115
20210139	1001	t	C 1, Kiran Samarak Sadan, Delhi	2021-06-11 17:48:20.3	312.34	44.68	3.6	COD	t	101
20210140	1005	f	433, Katra Nabi Bux, Sadar Bazar, Delhi	2021-06-12 09:25:13.48	765.33	78.36	4.7	UPI	t	103
20210141	1004	f	433, Katra Nabi Bux, Sadar Bazar, Delhi	2021-06-22 09:22:45.231	895.36	34.54	2.4	UPI	t	103
20210142	1002	t	P1 No 94-95, Shahada Bagh, Inderlok,Delhi	2021-06-20 10:55:23.48	1253.11	60.75	4.8	UPI	f	126
20210143	1003	t	73, Main Bazar,Delhi	2021-06-05 08:45:23.482	899.10	35.25	4.5	COD	t	117
20210144	1005	t	251, Clock Tower, Ghaziabad, Ghaziabad,Delhi	2021-06-22 09:48:23.491	532.54	23.22	2.9	Credit Card	t	112
20210145	1006	f	433, Katra Nabi Bux, Sadar Bazar, Delhi	2021-06-26 08:45:23.49	80.00	5.00	3.4	COD	t	103

(31 rows)

# Data of RESTAURANT

```
ZORILLATO# SELECT * FROM Restaurant;
+-----+-----+-----+-----+-----+
| restaurant_id | restaurant_name | restaurant_location | restaurant_rating | available |
+-----+-----+-----+-----+-----+
| 111001 | Pappe da Dhabba | 404, Part 2, Gurgaon, Gurgaon | 4.2 | t |
| 111002 | Natural | G 1, Kiran Samarak Sadan, Delhi | 3.9 | f |
| 111003 | McDonalds | Part 3, Gurgaon, Gurgaon | 4.3 | t |
| 111004 | KFC | 8rd Floor, 50 Ifci Tower,Delhi | 4.0 | f |
| 111005 | Dosa Plaza | B 3, New Subzi Mandi, Azadpur,Delhi | 4.3 | t |
| 111006 | Vada Corner | East Vinod Nagar, Mayur Vihar, Delhi | 4.1 | t |
| 111007 | Indian Coffee House | Connaught Place, New Delhi | 4.9 | t |
| 111008 | Coffee Culture | A 54, Shahada Bagh, Inderlok,Delhi | 4.6 | t |
+-----+-----+-----+-----+-----+
(8 rows)
```

Data of RESTAURANT\_MENU

food_id	restaurant_id	price	10030	111003	25.00
10001	111001	125.00	10024	111003	20.75
10002	111001	90.20	10025	111003	80.25
10004	111001	70.50	10022	111003	55.25
10007	111001	120.25	10029	111003	125.75
10008	111001	210.00	10028	111003	210.75
10009	111001	250.25	10015	111003	110.00
10011	111001	235.75	10003	111004	150.25
10012	111001	85.20	10002	111004	100.50
10013	111001	80.75	10005	111004	210.50
10022	111001	55.50	10006	111004	225.50
10023	111001	65.25	10001	111004	125.50
10024	111001	25.50	10011	111004	245.25
10025	111001	80.75	10010	111004	285.00
10028	111001	225.00	10013	111004	85.00
10029	111001	120.25	10020	111004	75.25
10001	111002	95.75	10017	111004	55.00
10003	111002	150.75	10017	111004	25.75
10002	111002	90.25	10024	111004	80.25
10005	111002	210.00	10025	111004	55.25
10008	111002	215.25	10022	111004	210.25
10009	111002	240.25	10029	111004	35.50
10011	111002	240.00	10002	111005	90.25
10014	111002	50.25	10003	111005	160.00
10013	111002	70.75	10008	111005	210.75
10020	111002	75.55	10028	111007	210.00
10030	111002	25.50	10015	111007	110.00
10024	111002	25.50	10006	111007	245.00
10025	111002	85.75	10014	111007	35.50
10027	111002	150.00	10008	111008	230.25
10029	111002	125.25	10009	111008	240.00
10028	111002	250.55	10011	111008	70.50
10001	111003	125.00	10004	111008	75.75
10003	111003	155.25	10013	111008	30.55
10002	111003	95.50	10024	111008	190.25
10005	111003	200.25	10005	111008	85.50
10006	111003	235.75	10012	111008	85.50
10007	111003	110.50	10025	111008	240.55
10011	111003	245.25	10021	111008	55.55
10010	111003	285.00	10028	111008	35.50
10013	111003	85.00	10016	111008	240.55
10020	111003	75.25	15 rows)		

# Data of ORDERED\_ITEM

order_id	food_id	price
20210115	10028	225.00
20210115	10024	25.50
20210115	10011	235.75
20210115	10012	85.20
20210116	10013	80.75
20210116	10004	70.50
20210116	10002	90.20
20210116	10008	210.00
20210117	10001	95.75
20210117	10003	150.75
20210118	10001	125.00
20210118	10002	95.50
20210118	10005	200.25
20210118	10006	235.75
20210119	10011	245.25
20210119	10010	285.00
20210119	10022	55.25
20210120	10030	25.00
20210120	10029	125.75
20210120	10015	110.00
20210121	10005	210.50
20210121	10006	225.50
20210122	10001	125.50

20210122	10020	75.25
20210122	10025	80.25
20210122	10022	55.25
20210123	10029	125.75
20210124	10008	210.25
20210124	10013	70.75
20210124	10020	75.55
20210125	10005	195.25
20210125	10024	25.50
20210126	10028	250.55
20210126	10022	55.50
20210126	10002	90.25
20210127	10003	160.00
20210127	10008	210.25
20210127	10009	230.25
20210127	10011	240.00
20210127	10004	70.50
20210128	10013	75.75
20210128	10012	85.50
20210128	10025	85.55
20210128	10016	55.55
20210129	10029	125.75
20210130	10028	210.75

20210130	10028	210.75
20210130	10015	110.00
20210131	10021	35.00
20210131	10024	20.75
20210132	10025	80.25
20210132	10007	110.50
20210132	10011	250.25
20210132	10012	85.50
20210132	10025	85.50
20210133	10021	35.50
20210134	10028	240.55
20210134	10016	55.55
20210135	10008	210.00
20210136	10009	230.25
20210137	10011	240.00
20210137	10020	75.25
20210138	10024	30.55
20210138	10005	190.25
20210139	10012	85.50

20210140	10025	85.50
20210140	10021	35.50
20210141	10007	110.50
20210141	10011	250.25
20210141	10010	285.00
20210142	10013	85.00
20210143	10008	210.25
20210143	10009	230.25
20210143	10011	240.00
20210143	10004	70.50
20210144	10013	75.75
20210144	10020	75.55
20210145	10005	190.25
20210145	10012	85.50
20210145	10025	85.55

# SQL QUERIES

```
customer_name
-----
Deepanshu
Yogesh
Garima
Shreya
Harsh
Sammer
Raghu
Aman
John
Amit
Robin
Parth
Ayan
Tommy
(14 rows)
```

(14 rows)  
Tommy  
Ayan  
Parth  
Harsh  
Sammer

Find the customers which have given a rating of more than 3.5 to the delivery boy

```
SELECT DISTINCT customer_name
FROM customer NATURAL JOIN orders NATURAL JOIN delivery_boy
WHERE deliveryboy_rating > 3.5;
```

customer_name	restaurant_name
Aman	Coffee Culture
Aman	Indian Coffee House
Aman	KFC
Aman	McDonalds
Aman	Pappe da Dhabba
Aman	Vada Corner
Amit	Coffee Culture
Amit	Pappe da Dhabba
Amit	Vada Corner
Ayan	Dosa Plaza
Ayan	Natural
Ayan	Pappe da Dhabba
Ayan	Vada Corner
Deepanshu	Indian Coffee House
Deepanshu	McDonalds
Garima	Indian Coffee House
Garima	KFC
Garima	McDonalds
Harsh	Coffee Culture
Harsh	Vada Corner
John	Coffee Culture
John	Indian Coffee House
John	KFC
John	McDonalds
John	Vada Corner
Parth	Indian Coffee House
Parth	KFC
Parth	McDonalds
Raghul	Coffee Culture
Raghul	Dosa Plaza

Raghul	Indian Coffee House
Raghul	KFC
Raghul	McDonalds
Raghul	Natural
Raghul	Pappe da Dhabba
Raghul	Vada Corner
Robin	Coffee Culture
Robin	Dosa Plaza
Robin	Indian Coffee House
Robin	KFC
Robin	McDonalds
Robin	Natural
Robin	Vada Corner
Sammer	Coffee Culture
Sammer	Vada Corner
Shreya	Coffee Culture
Shreya	Dosa Plaza
Shreya	Natural
Shreya	Pappe da Dhabba
Shreya	Vada Corner
Tommy	Coffee Culture
Tommy	Indian Coffee House
Tommy	KFC
Tommy	McDonalds
Tommy	Vada Corner
Yogesh	Indian Coffee House
Yogesh	KFC
Yogesh	McDonalds
Yogesh	Pappe da Dhabba

(59 rows)

Find the names of all the customers which have ordered from at least one restaurant and also show the names of all the restaurants

```

SELECT DISTINCT customer.customer_name, restaurant.restaurant_name
FROM customer NATURAL JOIN orders NATURAL JOIN ordered_item
NATURAL JOIN restaurant_menu NATURAL JOIN restaurant
WHERE restaurant.restaurant_name IN (
    SELECT distinct restaurant_name
    FROM restaurant
    WHERE restaurant_id IN (
        SELECT DISTINCT restaurant_menu.restaurant_id
        FROM ordered_item,restaurant_menu
        WHERE ordered_item.food_id = restaurant_menu.food_id
    )
);

```

A 3D-style table visualization with two vertical columns and a central body. The top row has two teal circular nodes. The left column is white and contains the text "customer\_name". The right column is grey and contains "(10 rows)". The central body lists ten customer names:

customer_name
Jack
Shreya
Harsh
Sammer
Atharv
Aman
Robin
Amit
Venti
Tommy
(10 rows)

Find the name of the customers who have a pro membership of zomato

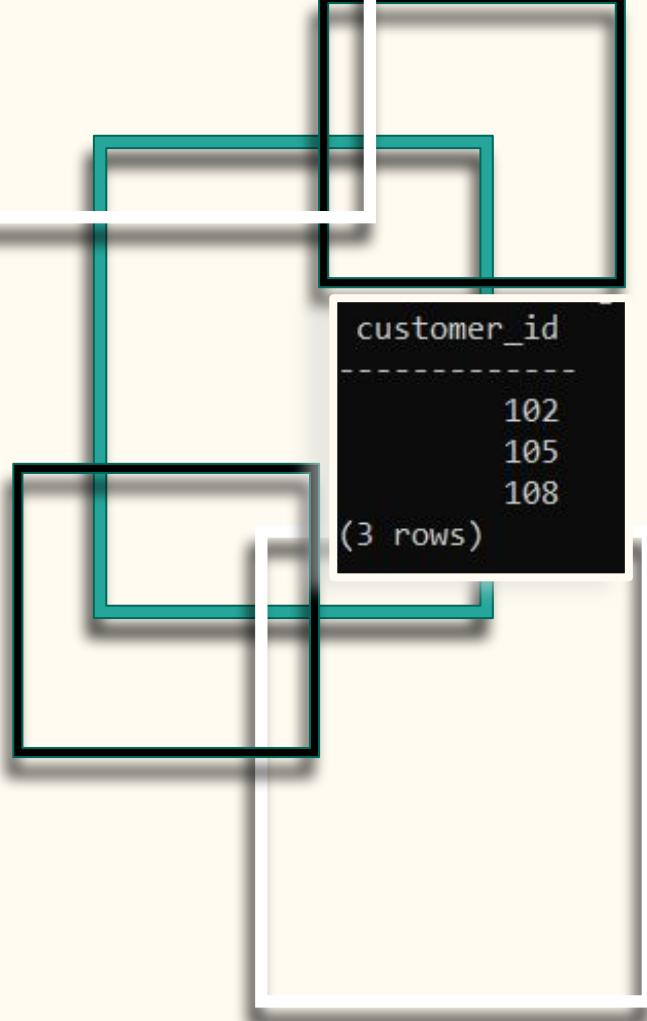
```
SELECT DISTINCT customer_name  
FROM customer  
WHERE zomato_pro_membership = true;
```

---

```
deliveryboy_name  
-----  
Rampal  
(1 row)
```

Find the delivery boys  
that have got the  
maximum tip of all the  
delivery boys

```
SELECT DISTINCT delivery_boy.deliveryboy_name  
FROM orders NATURAL JOIN delivery_boy  
WHERE orders.order_tip = (  
    SELECT MAX(order_tip)  
    FROM orders  
);
```



Find the customer ids of  
the people who have only  
made a single order

```
SELECT DISTINCT customer.customer_id  
FROM customer NATURAL JOIN orders  
GROUP BY customer.customer_id  
HAVING count(*) = 1;
```

# RA QUERIES

Find the customers  
that have given a  
rating of more than  
4.5 to any delivery  
boy

$$\pi \text{ customer\_name} (\sigma \text{ delivery\_rating} > 4.5 (\text{CUSTOMERS} \bowtie \text{ORDER} \bowtie \text{DELIVERY_BOY}))$$

**CUSTOMERS.customer\_name**

'Amit'

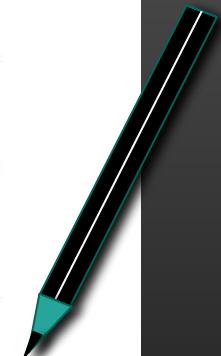
'John'

'Harsh'

'Deepanshu'

'Shreya'

'Parth'



Find the name of all the customers whose orders were delivered by Pratul

```
π customer_name ( σ  
deliveryboy_name = 'Pratul'  
(CUSTOMERS ⋈ ORDER ⋈  
DELIVERY_BOY))
```

CUSTOMERS.customer\_name

'Tommy'

'Aman'

'Parth'

'Ayan'

"Yogesh"



Find the names of all customers who haven't placed any order yet.

```
π customer_name (CUSTOMERS) -  
(π customer_name (CUSTOMERS ⚡  
ORDER))
```

CUSTOMERS.customer\_name

'Venti'

'Shalu'

'Shama'

'Dron'

'Atharv'

'Jack'



Find the name of food items whose price is greater than Rs. 250

$\pi \text{ food\_name} (\sigma \text{ price} > 250.00 \\ (\text{RESTAURANT\_MENU} \bowtie \\ \text{MASTER\_MENU}))$

**MASTER\_MENU.food\_name**

'Kadai Paneer'

'Paneer Tikka'

'Malai Kofta'

'Butter Paneer Masala'



Find the contact numbers of delivery boys who delivered order to Shreya

```
π deliveryboy_number (σ  
customer_name = 'Shreya'  
(DELIVERY_BOY ⚈  
DELIVERYBOY_number ⚈ ORDER  
⋈ CUSTOMERS))
```

DELIVERYBOY\_number.deliveryboy\_number

8094612753

9340795918



Thankyou

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