INSIGHTS ON SWIGGY DATA

```
### Selecting Database
use case_study_swiggy;
```

```
## First view of data
Select * from swiggy_cleaned_final;
```

```
## 1. List all the distinct food items available in Kandivali East.
Select food from swiggy_cleaned_final where location='Kandivali East';
```

Query Output:

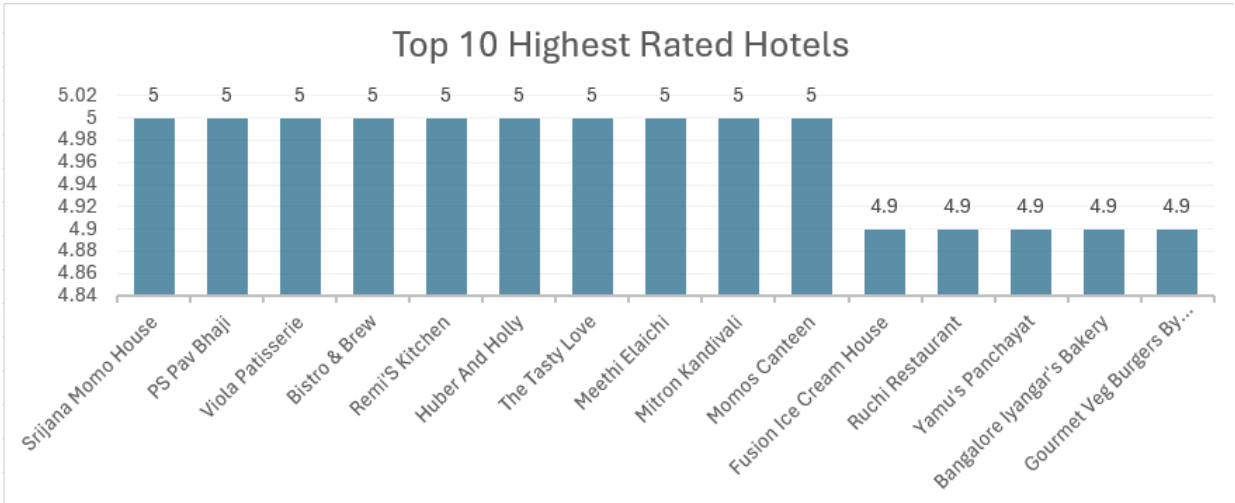| food |
| --- |
| ▶ Burgers |
| Beverages |
| Cafe |
| Desserts |
| Burgers |
| Biryani |
| American |
| Snacks |
| Fast Food |

Visualization:

Most Ordered Food Items

2. Find the average rating for each hotel in Kandivali East.
Select hotel_name, round(avg(rating),1) AS average_rating from swiggy_cleaned_final where location = 'Kandivali East'
group by hotel_name;

Query Output:

hotel_name	average_rating
McDonald's	4.5
KFC	4.2
Domino's Pizza	4.3
Charcoal Eats - Biryani & Beyond	4.3
Sandwizzaa	4.6
1441 Pizzeria	3.8
Hangout Cakes & More	4.4
Love & Cheesecake	4.5
Nothing But Chicken	4.5

Visualization:

Top 10 Highest Rated Hotels

3. Identify the food items that have an offer upto value of 80.
Select hotel_name,food from swiggy_cleaned_final where offer_upto>=80;

Query Output:

hotel_name	food
KFC	Burgers
KFC	Burgers
KFC	American
KFC	Snacks
KFC	Fast Food
Domino's Pizza	Pizzas
Domino's Pizza	Italian
Domino's Pizza	Pastas
Domino's Pizza	Desserts

Visualization:

Items with above 80 rs off

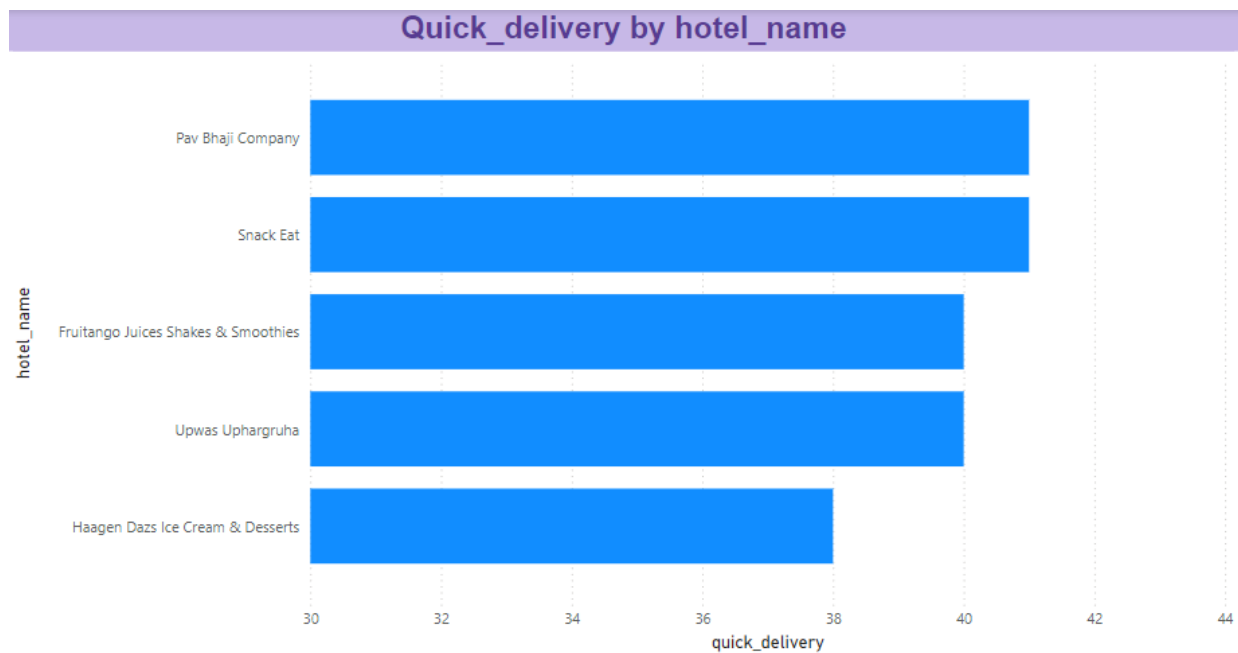| Hotel	Food Items
1441 Pizzeria	Italian
1441 Pizzeria	Pastas
1441 Pizzeria	Pizzas
5 Spice	Asian
5 Spice	Chinese
5 Spice	Seafood
5 Spice	Thai
63 By-Lane	Pastas
63 By-Lane	Pizzas
63 By-Lane	Salads
69 Dackers Lane	Bengali
69 Dackers Lane	Biryani
7th Heaven	Bakery
7th Heaven	Desserts
99 Pancakes	Beverages
99 Pancakes	Desserts
Adarsh	Bakery
Adarsh	Snacks

4. Identify the hotels with the shortest delivery time in Kandivali West.

Select hotel_name, min(delivery_time) as quick_delivery from swiggy_cleaned_final where location='Kandivali West'
group by hotel_name order by quick_delivery LIMIT 5;

Query Output:

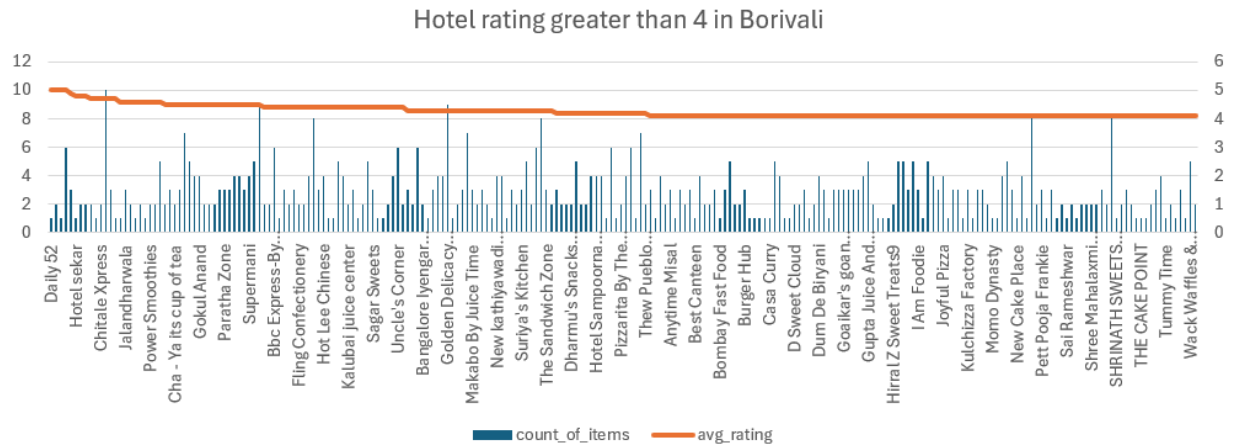| hotel_name	quick_delivery
▶ Haagen Dazs Ice Cream & Desserts	38
Upwas Uphargruha	40
Fruitango Juices Shakes & Smoothies	40
Snack Eat	41
Pav Bhaji Company	41

Visualization:

5. List the hotel , count of items offered and the avg rating gretaer than of 4 in Borivali.
Select hotel_name,count(distinct food) as count_of_items,
round(avg(rating),1) as avg_rating from swiggy_cleaned_final
where location='Borivali' group by hotel_name having avg_rating>4 order
by avg_rating desc;

Query Output:

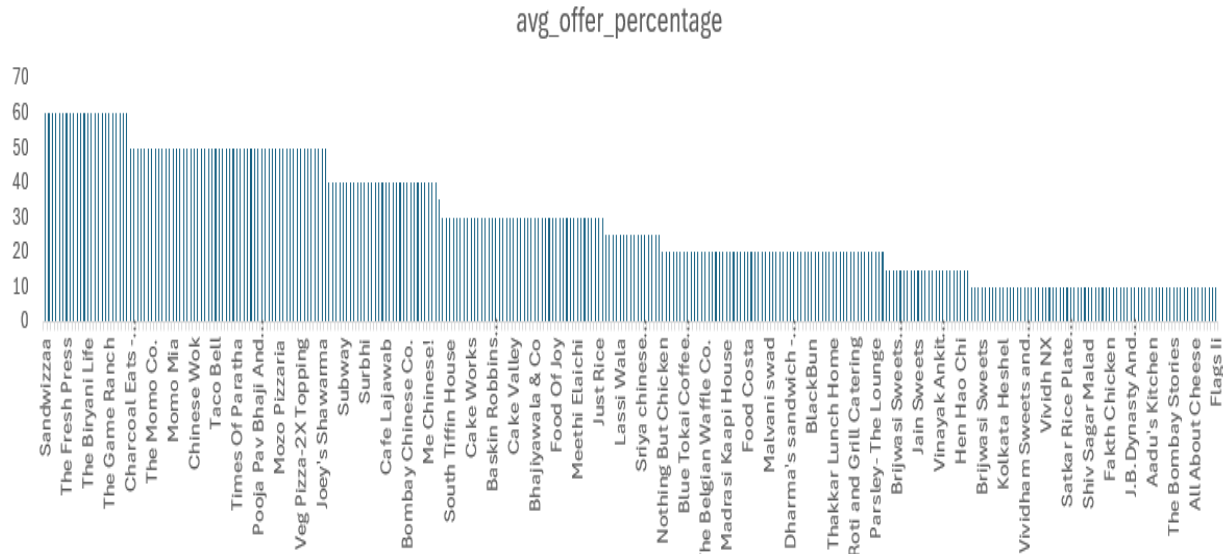|	hotel_name	count_of_items	avg_rating
▶	Daily 52	1	5
	Om Namo Fast Food	2	5
	Q Fussion	1	5
	Sunday The Comfort Kitchen	6	5
	Mohanlal S Mithaiwala	3	4.9
	Hotel sekar	1	4.8
	Waffle World	2	4.8
	World Famous Paratha	2	4.8
	# Vegan	2	4.7

Visualization:

Hotel rating greater than 4 in Borivali

6. Hotels with higher average offer percentage in kandivali East.
Select distinct hotel_name,round(avg(offer_percentage),1) as
avg_offer_percentage from swiggy_cleaned_final
where location = 'Kandivali East' group by hotel_name order by
avg_offer_percentage desc;

Query Output:

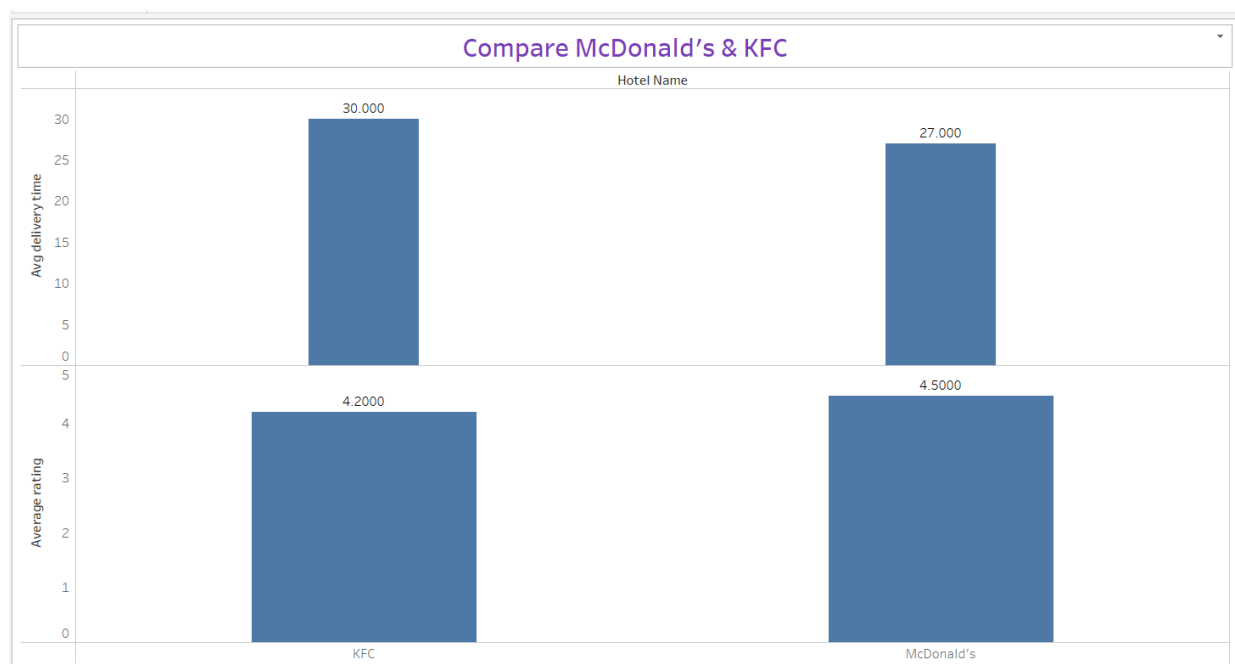| hotel_name	avg_offer_percentage
Sandwizzaa	60
1441 Pizzeria	60
Hangout Cakes & More	60
The Joy Pizzateria	60
The Cake Factory	60
Itminaan Matka Biryani - Slow Cooked	60
The Fresh Press	60
Delights by INOX	60
Chaayos Chai+Snacks=Relax	60

Visualization:

7. Compare the average delivery time and rating between McDonald's and KFC in Kandivali East.
Select hotel_name,round(avg(delivery_time),1) as
Avg_delivery_time,round(avg(rating),1) as Average_rating
from swiggy_cleaned_final where hotel_name in ('McDonald\'s','KFC') and
location = 'Kandivali East' group by hotel_name;

Query Output:

	hotel_name	Avg_delivery_time	Average_rating
▶	McDonald's	27.0	4.5
	KFC	30.0	4.2

Visualization:

Compare McDonald's & KFC

8. List the best offer for burger with hotel name and location
Select hotel_name,location,max(offer_percentage) as best_offer from
swiggy_cleaned_final where food = 'Burgers'
group by hotel_name,location having best_offer <> 'Not Available' order
by best_offer desc;

Query Output:

hotel_name	location	best_offer
The Game Ranch	Kandivali East	60
Burger King	Kandivali East	60
SLYCE PIZZA	Kandivali East	60
Nirala Gourmet Kitchen	Borivali	60
Food Adda	Kandivali East	50
Yummy Shawarma	Kandivali East	50
MOGO Pizza	Kandivali East	50
Dominic Pizza	Pizza Story	50
Momo Mia	Kandivali East	50

Visualization:

Best offer for Burger

hotel_name	location	Best_offer
Burger King	Kandivali East	60
Nirala Gourmet Kitchen	Borivali	60
SLYCE PIZZA	Kandivali East	60
The Game Ranch	Kandivali East	60
Dominic Pizza	Pizza Story	50
Food Adda	Kandivali East	50
Joey's Pizzeria-Kandivali (E)	Kandivali East	50
Joey's Shawarma	Kandivali East	50
Joye's Pizzeria	Kandivali East	50
MOGO Pizza	Kandivali East	50
Momo Mia	Kandivali East	50
Mozo Pizzaria	Kandivali East	50

```
## 9. Derive Correlation coefficient
between delivery_time and offer_percentage
create view df as
(select delivery_time,offer_percentage from swiggy_cleaned_final where
offer_percentage not in ('Not Available','0'));
Set @avgdel=(Select avg(delivery_time) from df);
Set @avgoffer=(Select avg(offer_percentage) from df);
Set @std_over=(Select
stddev_samp(delivery_time)*stddev_samp(offer_percentage) from df);

Select round((sum((delivery_time-@avgdel)*(offer_percentage-@avgoffer)))
/ ((count(*) -1) *
@std_over),2) as Correlation_coefiicient from df;
```
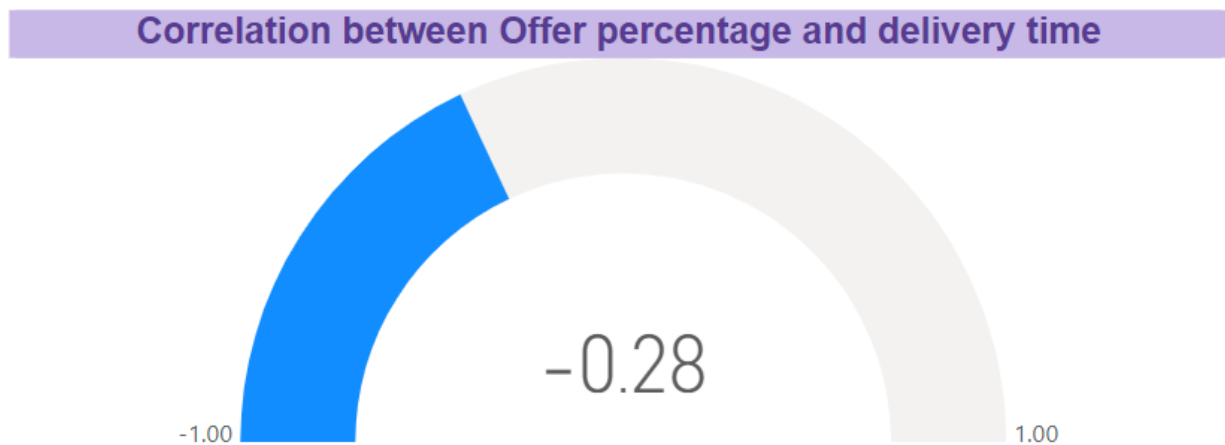
Query Output:

Correlation_coefiicient
-0.28

Visualization:

Correlation between Offer percentage and delivery time

-1.00   -0.28   1.00

10. Identify the top 5 hotels with the best offers and shortest delivery times in Kandivali East.

```
Select hotel_name, avg(offer_percentage) AS avg_offer_percentage,
round(avg(delivery_time),1) as avg_delivery_time
from swiggy_cleaned_final
where location = 'Kandivali East' and offer_percentage not in ('Not
Available','0')
group by hotel_name
order by avg_offer_percentage desc, avg_delivery_time asc
limit 5;
```

Query Output:

hotel_name	avg_offer_percentage	avg_delivery_time
Chaayos Chai+Snacks=Relax	60	18.0
Delights by INOX	60	18.0
Sweet Truth - Cake and Desserts	60	20.0
The Cake Factory	60	22.0
Sandwizzaa	60	22.0

Visualization: