

ONLINE FOOD ORDER



CS540 Advanced Database Administration

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Why Online Business
needed

What are some
Challenges of
Online Business



Plotting

Share Our data in chart form to
represent the query

DBA

Commands



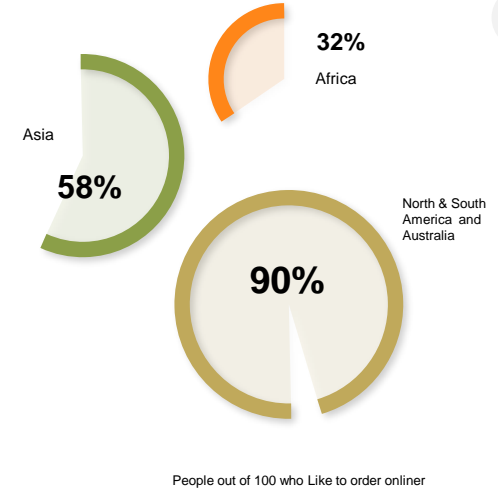
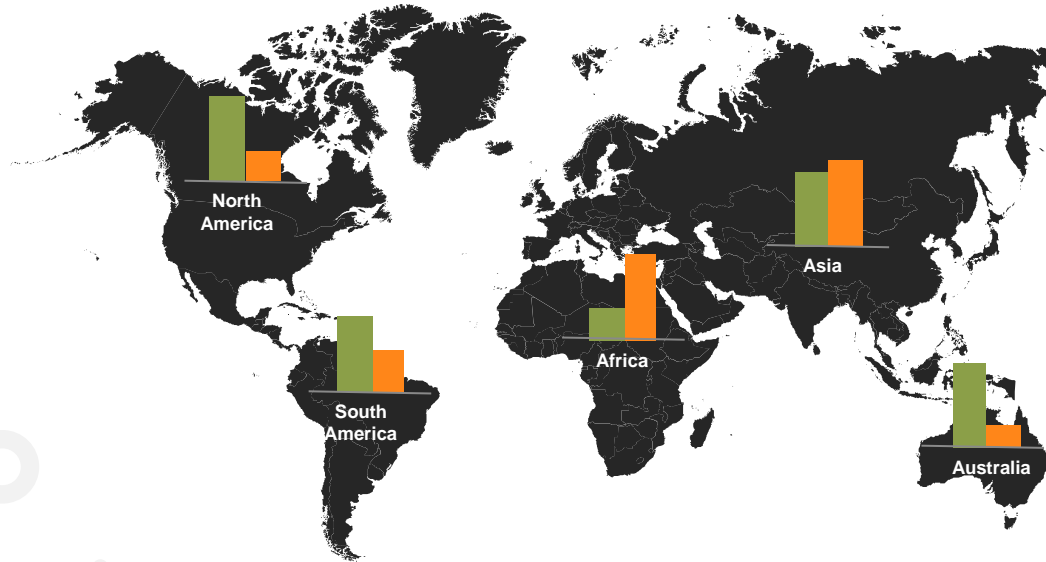
DELICIOUS FOOD PROJECT



Why Online business needed.



- Offers incredible scalability
- Provides limitless freedom
- High margins
- Expanding the Business



Vertical Chart

People Think about online business

When we ask the vendor's and shoppers about online business, eventually we heard different kind of opinion from different region.

The shoppers from North and South america, Europe and Australia like the online business where on the other hand the asia and africa shopper like their traditional way.

- Customers' Exploding Expectations
- Personalization Approach
- Being Consistent
- Facing Competition

Challenges for Online Business.





The Discounted Item based on the festival time or special events.



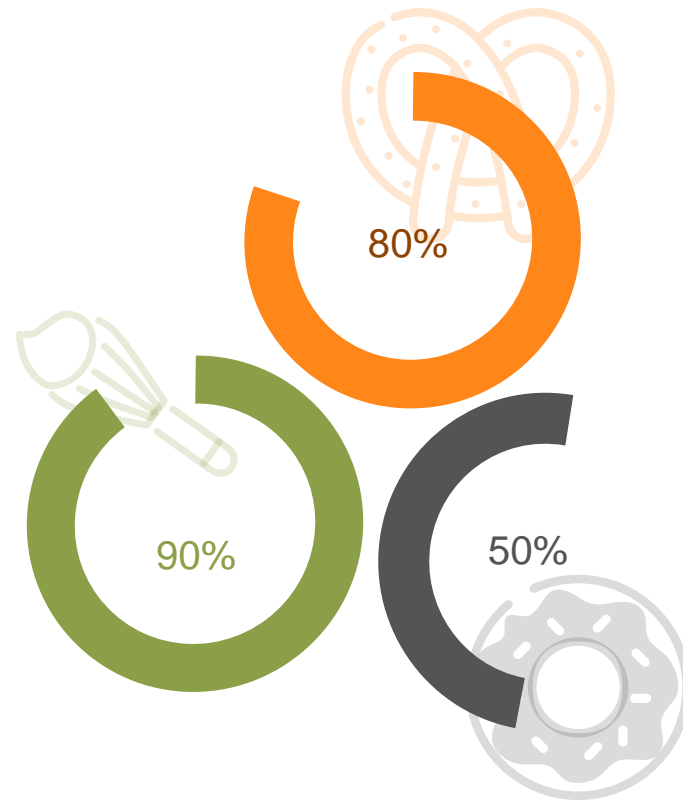
Dj's special dishes.



The common Snacks and The Indian and Punjabi Thali.

DOUGHNUT CHART

Customer's favorite dish from our menu.



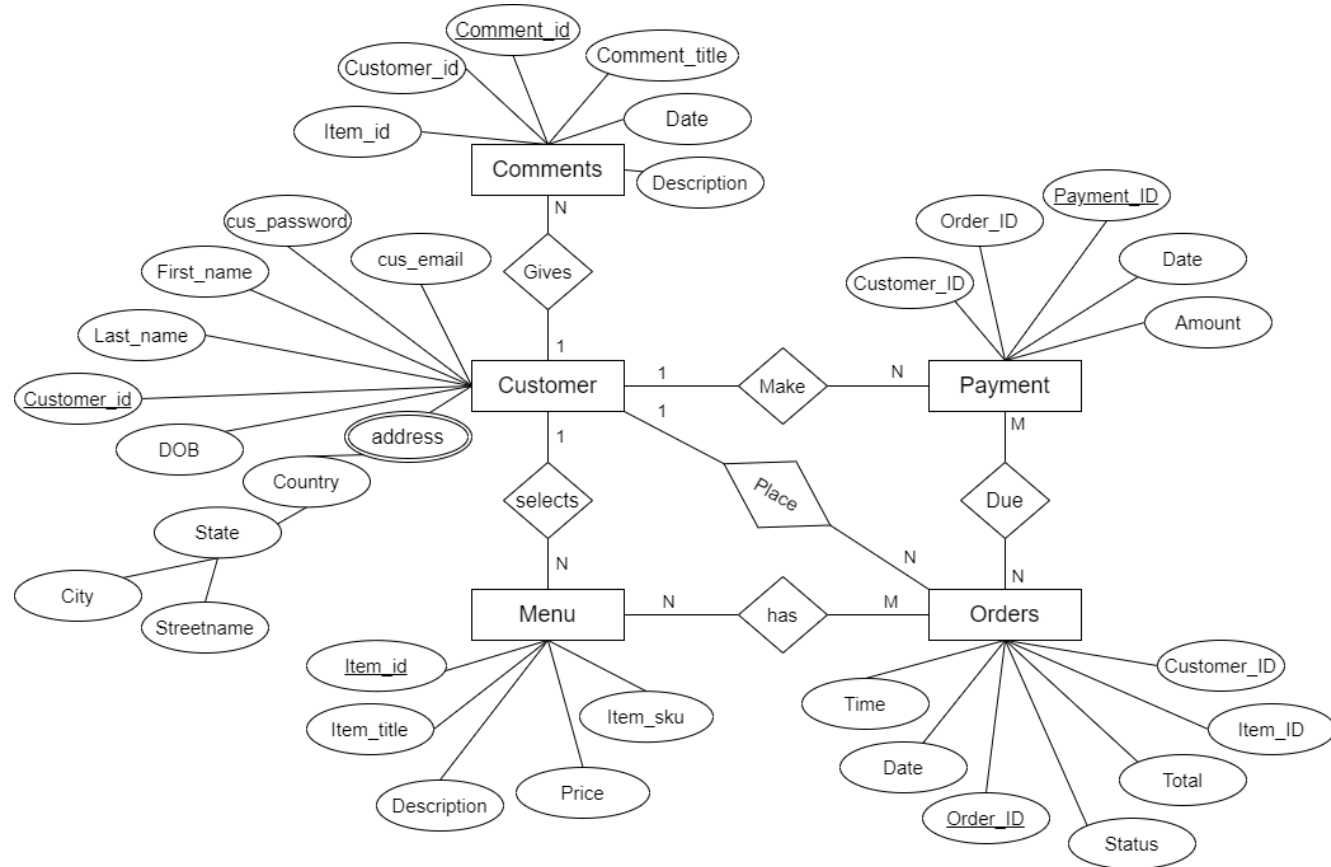
*the data is based on 20 users count

How Database help you!

- Time Saving Tools
 - store and manage
 - Yellow pages database allows businesses to manage all the company's essential information in one place
- Improves Inventory Tracking
- Manages Customer Data
- Financial Management



ER Diagram



Database Table

```
customer X
1 SELECT * FROM customer;
```

	* customer_id int	* customer_email varchar(255)	* customer_password varchar(255)	* customer_first_name varchar(255)	* customer_last_name varchar(255)	* customer_dob varchar(255)	* customer_address varchar(255)	* customer_city varchar(255)
1	1	aman@gmail.com	test	Aman	Kumar	2021-10-15	gjhg	Mumbai
2	2	sumit@gmail.com	test	Pawan	Kumar	2021-10-15	jhjk	Jaipur
3	3	rahul@gmail.com	test	Rahul	Kumar	2021-10-08	jhg	Mumbai
4	4	sumit@gmail.com	test	Sumit	Kumar	2021-10-16	jk	Delhi
5	5	amit@gmail.com	test	Amit	Kumar	2021-10-26	gg1	Kanpur

	* login_id int	* login_employee_id varchar(255)	* login_email varchar(255)	* login_password varchar(255)	* login_level_id varchar(255)
1	1	1001	admin	test	1
2	2	1002	employee	test	2
3	37	36	hh	hh	2
4	39	38	hh	hh	1
5	41	40	hh	hh	2
6	43	42	hh	hh	2
7	45	44	hh	hh	1
8	47	46	hh	hh	1

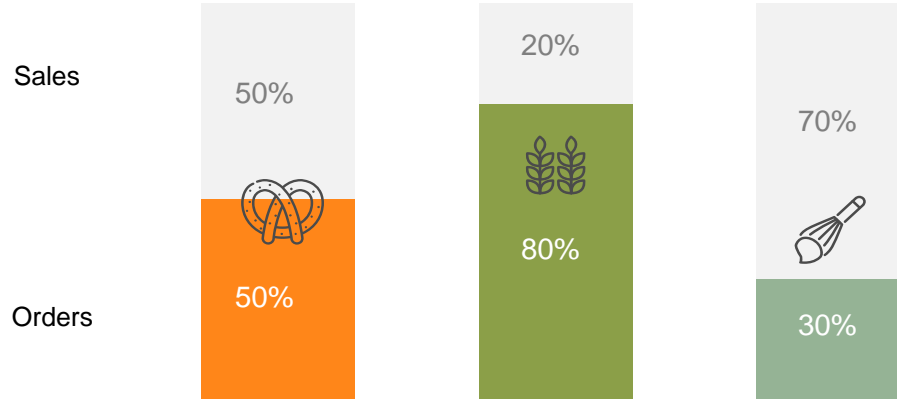
Database Table

Q	* comments_ int	* item_id int	* customer_id int	* comments_title text	* comments_date varchar(255)	* comments_descriptic text
1	1	1	1	My First Comment	2021-10-27	Multiply sea night grass
2	2	1	2	Multiply sea night grass	2021-10-27	Multiply sea night grass
3	3	1	3	Multiply sea night grass	2021-10-27	Multiply sea night grass
4	4	1	4	Multiply sea night grass	2021-10-27	Multiply sea night grass
5	5	1	5	Multiply sea night grass	2021-10-27	Multiply sea night grass
6	6	1	2	Multiply sea night grass	2021-10-27	Multiply sea night grass
7	7	1	2	Multiply sea night grass	2021-10-27	Multiply sea night grass
8	133	5	1	asasdf	2021-10-27	asdfadsf
9	139	10	5	I have no intention of le	2021-10-27	Unperturbed by the stin
10	199	7	5	asdf	2022-02-27	adfasdf
11	200	7	5	asdf	2022-02-27	asdf
12	279	10	5	Very good product	2022-03-12	This is very good produc

Database Table

payment					
1 SELECT * FROM payment LIMIT 100;					
	* payment_id int	* order_id int	* customer_id int	* payment_date date	payment_amount float
1	165	5	1	2021-11-06	10000
2	166	5	2	2021-11-06	15000
3	167	5	3	2021-11-06	12000

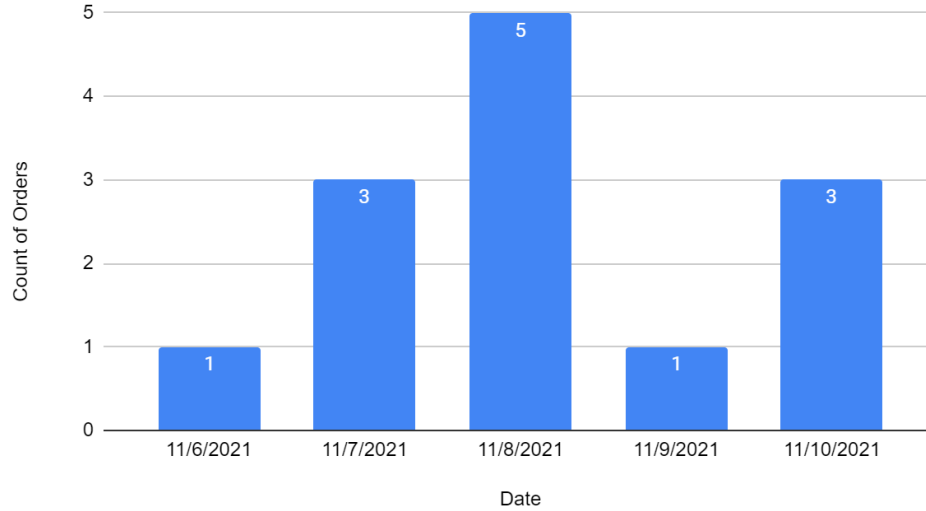
Sales Record



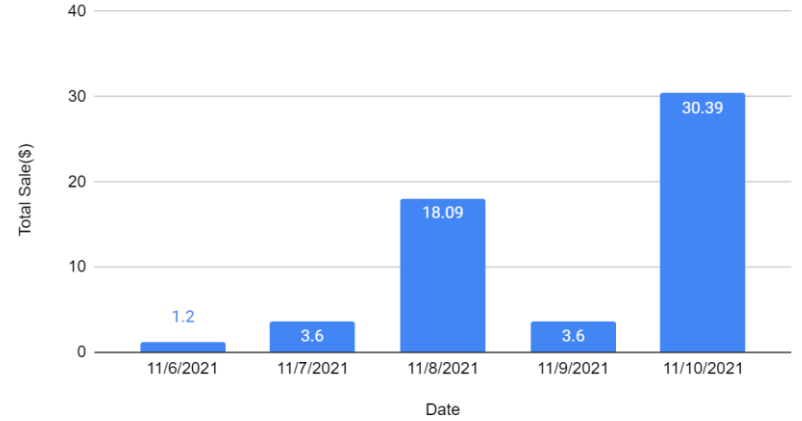
Sales on 8th Nov	Sales on 7th Nov	Sales On 10th Nov
The Restaurant got the 6 Order and the amount of sales from the order is 18\$	The Restaurant got 4 Orders and the Sales from the order is only 3\$	The Restaurant got 3 ORders so far and the Sales from the order is 30.40\$

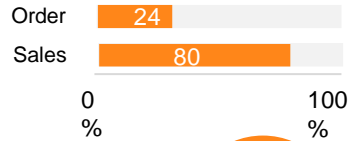
Orders and Sales By Date

Order By Date



Sales By Date

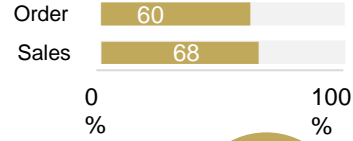




Morning



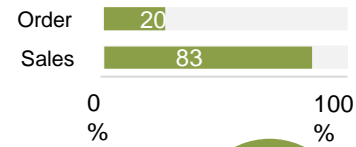
Morning is the Rush hours,
Because the people are going to there work, the statics says the big orders for the lunch and the quick breakfast dishes are selling so fast



Afternoon



The afternoon is good for the lunch menu,
As per statics the afternoon Time the lunch dishes are making some nice amount of sell.



Evening



Evening and night for special dishes,
The states indicate the special dishes are more selected by customer.

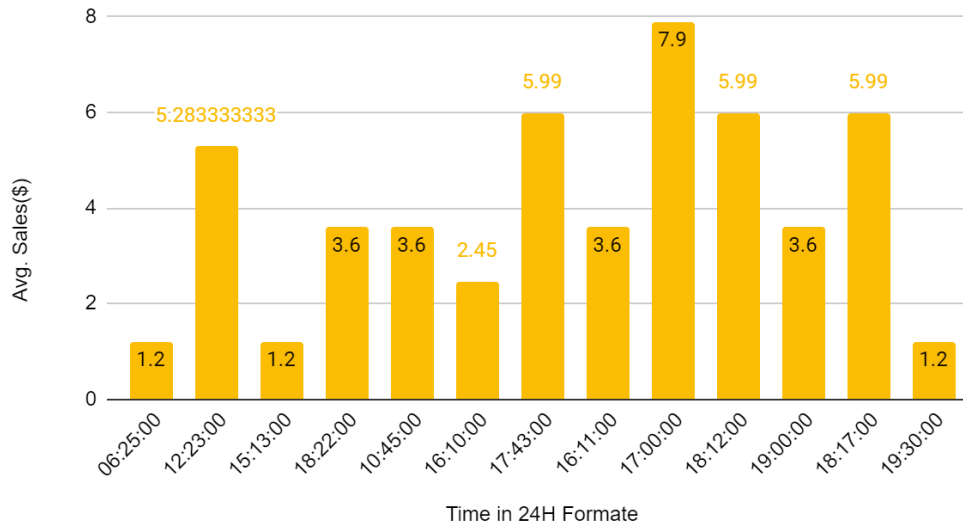


STACKED
BAR

References:
<https://docs.google.com/spreadsheets/d/1tmtbH1yyqKn5XsM5iqHgMJJoAUM7HMrCmJ4ZI5kE7L9U/edit?usp=sharing>



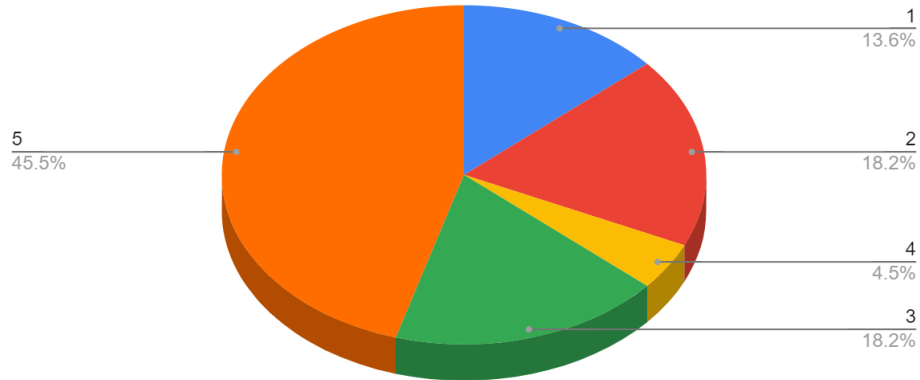
Sales by Time



Donut Chart

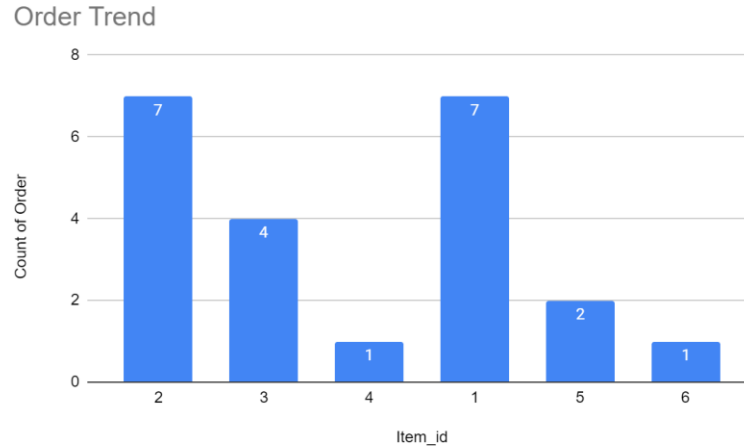


Orders Count By Customer_id



Which Customer
Order the most

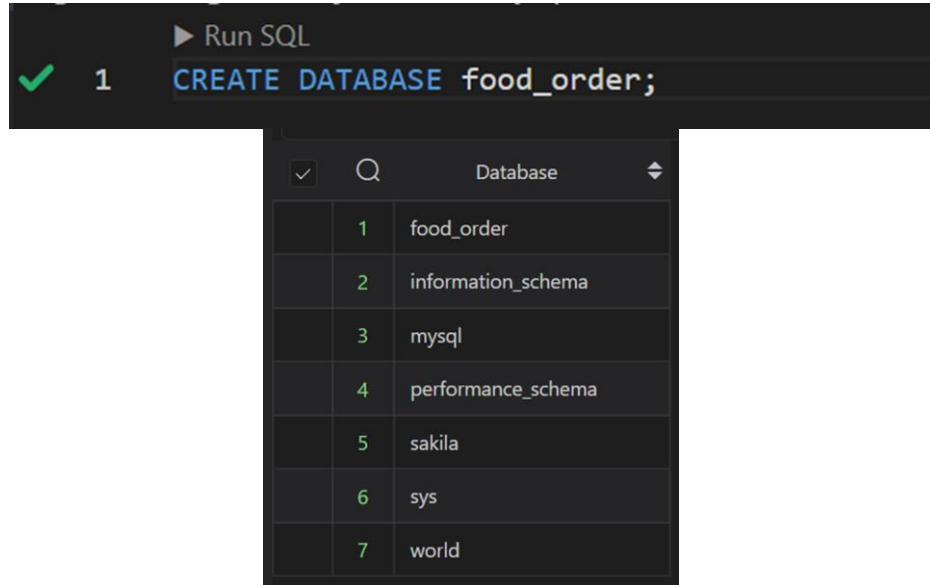
Which Order The Customers Like Most



Time Duration is 3 hours

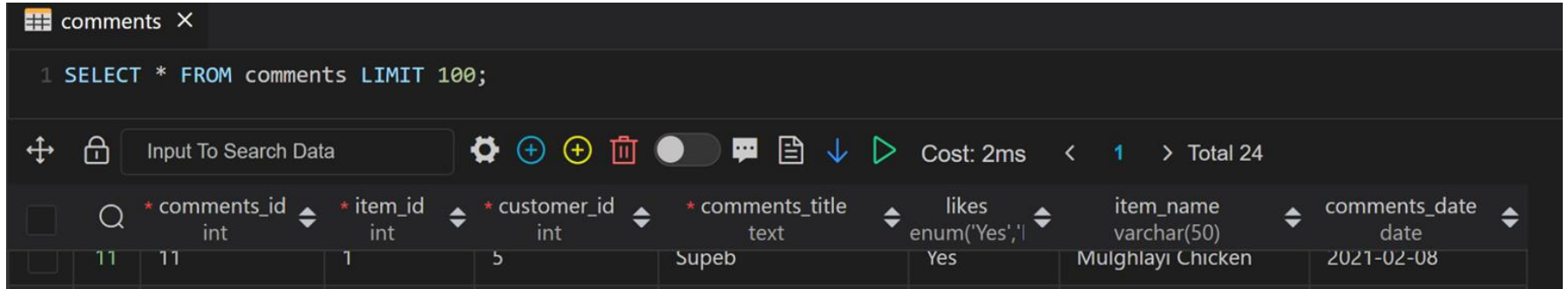
Id 1: Samosa, Id 2: Dj's Special Dish, Id 3: Ve. Burger, Id 4: Pasta, Id 5: Pizza, Id 6: Punjabi Thali

Creating the Database



First We Create A database/sceam. We use the Mysql here using the Visual Studio Code

Some Privileges using Mysql with VS



The screenshot displays the MySQL Workbench interface. At the top, a tab labeled 'comments' is active. Below it, the SQL editor contains the query: `1 SELECT * FROM comments LIMIT 100;`. The interface includes a toolbar with various icons for navigation and execution. Below the toolbar, the query results are displayed in a table format. The table has columns: `comments_id` (int), `item_id` (int), `customer_id` (int), `comments_title` (text), `likes` (enum('Yes','I')), `item_name` (varchar(50)), and `comments_date` (date). The first row of data is highlighted in green and shows the following values: 11, 1, 5, Supeb, Yes, Mulghlayi Chicken, and 2021-02-08. The status bar at the bottom indicates 'Cost: 2ms' and 'Total 24'.

	<code>* comments_id</code> int	<code>* item_id</code> int	<code>* customer_id</code> int	<code>* comments_title</code> text	<code>likes</code> enum('Yes','I')	<code>item_name</code> varchar(50)	<code>comments_date</code> date
11	11	1	5	Supeb	Yes	Mulghlayi Chicken	2021-02-08

You have a button for Add rows, delete rows, export data, run the query and many more feature

Create A User

```
mysql> create user 'jenish'@'localhost' identified by 'Jenish1';  
Query OK, 0 rows affected (0.15 sec)
```

```
mysql> show grants for 'jenish'@'localhost';  
+-----+  
| Grants for jenish@localhost |  
+-----+  
| GRANT USAGE ON *.* TO `jenish`@`localhost` |  
+-----+  
1 row in set (0.00 sec)
```

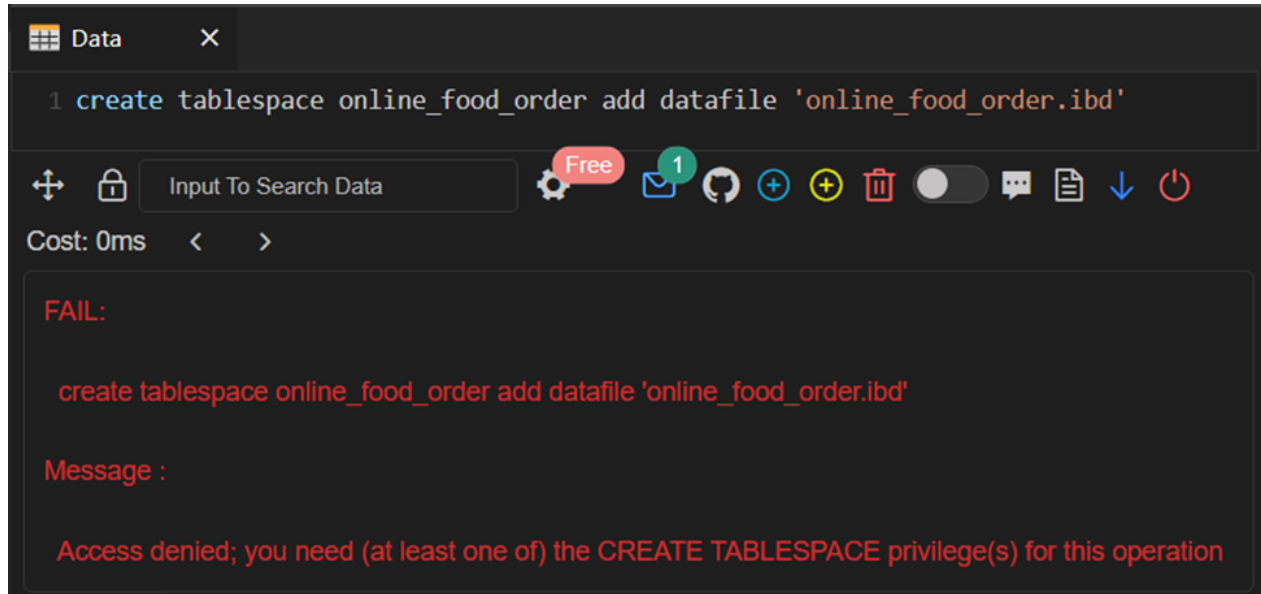
User has a connect grant on a database

Default User Privileges

```
MySQL SQL > \connect jenish@localhost
Creating a session to 'jenish@localhost'
Please provide the password for 'jenish@localhost': *****
Save password for 'jenish@localhost'? [Y]es/[N]o/[e]x (default No): y
Fetching schema names for autocompletion... Press ^C to stop.
Your MySQL connection id is 47 (X protocol)
Server version: 8.0.28 MySQL Community Server - GPL
No default schema selected; type \use <schema> to set one.
MySQL localhost:33060+ ssl SQL >
```

```
MySQL localhost:33060+ ssl SQL > show databases;
+-----+
| Database |
+-----+
| information_schema |
+-----+
1 row in set (0.0022 sec)
MySQL localhost:33060+ ssl SQL >
```

Set only limited access on database



The screenshot shows a dark-themed interface for a database management tool. At the top, there's a tab labeled "Data" with a close button. Below the tab, a SQL command is entered in a text area: `1 create tablespace online_food_order add datafile 'online_food_order.ibd'`. Below the text area is a toolbar with various icons: a crosshair, a lock, a search bar labeled "Input To Search Data", a gear icon with a "Free" badge, a mail icon with a "1" badge, a GitHub icon, a plus icon, a yellow plus icon, a trash icon, a toggle switch, a chat icon, a document icon, a download icon, and a power icon. Below the toolbar, the cost is shown as "Cost: 0ms" with left and right arrow icons. The main area displays the execution result in red text: "FAIL:", followed by the command `create tablespace online_food_order add datafile 'online_food_order.ibd'`, then "Message :", and finally the error message "Access denied; you need (at least one of) the CREATE TABLESPACE privilege(s) for this operation".

```
1 create tablespace online_food_order add datafile 'online_food_order.ibd'
```

Cost: 0ms

FAIL:

```
create tablespace online_food_order add datafile 'online_food_order.ibd'
```

Message :

Access denied; you need (at least one of) the CREATE TABLESPACE privilege(s) for this operation

Grant database privilege

```
mysql> grant all on food_order.* to 'jenish'@'localhost';  
Query OK, 0 rows affected (0.15 sec)
```

```
mysql> show grants for 'jenish'@'localhost';
```

```
+-----+  
| Grants for jenish@localhost |  
+-----+  
| GRANT USAGE ON *.* TO `jenish`@`localhost` |  
| GRANT ALL PRIVILEGES ON `food_order`.* TO `jenish`@`localhost` |  
+-----+  
2 rows in set (0.00 sec)
```

```
MySQL localhost:33060+ ssl SQL show databases;
```

```
+-----+  
| Database |  
+-----+  
| food_order |  
| information_schema |  
+-----+
```

```
2 rows in set (0.0397 sec)
```

Revoke Delete from new user

```
revoke delete on food_order.* from 'jenish'@'localhost';
```

Query 1 x Administration - Users and Privil...

Limit to 1000 rows

```
1 revoke drop on food_order.* from 'jenish'@'localhost';
```

Output

Action Output

#	Time	Action	Message
✓ 1	19:25:28	revoke drop on food_order.* from 'jenish'@'localhost'	0 row(s) affected

Revoke Delete from new user

13 • **drop table** orders;

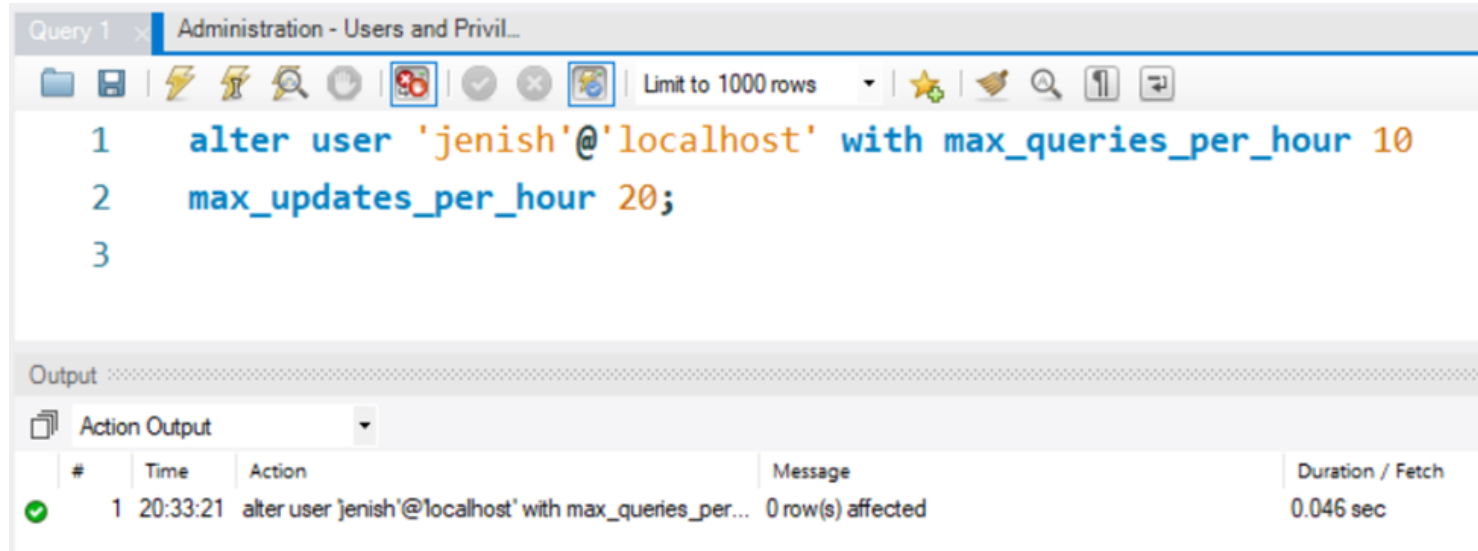
Output



Action Output

#	Time	Action	Message
1	20:00:22	drop table orders	Error Code: 1142. DROP command denied to user 'jenish'@'localhost' for table 'orders'

Set limited time access on database



The screenshot shows a database administration interface with a query editor and an output window. The query editor contains the following SQL command:

```
1 alter user 'jenish'@'localhost' with max_queries_per_hour 10
2 max_updates_per_hour 20;
3
```

The output window displays the results of the query execution:

#	Time	Action	Message	Duration / Fetch
✓ 1	20:33:21	alter user 'jenish'@'localhost' with max_queries_per...	0 row(s) affected	0.046 sec

Set limited time access on database

```
CREATE TABLESPACE food_order add datafile 'online_food_order.ibd';
```

✓	7	18:36:42	CREATE TABLESPACE food_order add datafile 'online_...	0 row(s) affected	0.625 sec
---	---	----------	---	-------------------	-----------

List All Tablespace in the instance

```
1 SELECT FILE_ID, FILE_NAME FROM INFORMATION_SCHEMA.FILES
2 WHERE FILE_NAME LIKE '%.ibd%' ORDER BY FILE_ID;
```

Input To Search Data

	FILE_ID	FILE_NAME
20	20	./sakila/fts_00000000000000430_0000
21	21	./sakila/fts_00000000000000430_0000
22	22	./sakila/fts_00000000000000430_0000
23	23	./sakila/inventory.ibd
24	24	./sakila/language.ibd
25	25	./sakila/payment.ibd
26	26	./sakila/rental.ibd
27	27	./sakila/staff.ibd
28	28	./sakila/store.ibd
29	29	./world/city.ibd
30	30	./world/country.ibd
31	31	./world/countrylanguage.ibd
32	32	./world/category.ibd
33	33	./world/comments.ibd
34	40	./online_food_order/company.ibd
35	43	./online_food_order/employee.ibd

Set only limited access on database

```
1 • select user from mysql.user
```

<	Result Grid	Filter Rows:	Export:	Wra
	user			
▶	jenish			
	mysql.infoschema			
	mysql.session			
	mysql.sys			
	root			

Memory Usages of all schema

```
1 SELECT s.schema_name,  
2 CONCAT(IFNULL(ROUND((SUM(t.data_length)+SUM(t.index_length))/1024/1024,2),0.00),"Mb") total_size,  
3 CONCAT(IFNULL(ROUND(((SUM(t.data_length)+SUM(t.index_length))-SUM(t.data_free))/1024/1024,2),0.00),"Mb") data_used,  
4 CONCAT(IFNULL(ROUND(SUM(data_free)/1024/1024,2),0.00),"Mb") data_free,  
5 IFNULL(ROUND((((SUM(t.data_length)+SUM(t.index_length))-SUM(t.data_free))/((SUM(t.data_length)+SUM(t.index_length))))*100,2),0.00) pct_used  
6 FROM INFORMATION_SCHEMA.SCHEMATA s, INFORMATION_SCHEMA.TABLES t  
7 WHERE s.schema_name = t.table_schema
```

	✓	Q	SCHEMA_NAME	total_size	data_used	data_free	pct_used
1			sakila	6.45Mb	6.45Mb	0.00Mb	100.00
2			mysql	2.63Mb	-137.38Mb	140.00Mb	-5233.33
3			world	0.80Mb	0.80Mb	0.00Mb	100.00
4			online_food_order	0.23Mb	0.23Mb	0.00Mb	100.00
5			sys	0.02Mb	0.02Mb	0.00Mb	100.00
6			information_schema	0.00Mb	0.00Mb	0.00Mb	0.00
7			performance_schema	0.00Mb	0.00Mb	0.00Mb	0.00

Memory Usages of all Tables

```
1 SELECT s.schema_name, table_name,  
2 CONCAT(IFNULL(ROUND((SUM(t.data_length)+SUM(t.index_length))/1024/1024,2),0.00),"Mb") total_size,  
3 CONCAT(IFNULL(ROUND(((SUM(t.data_length)+SUM(t.index_length))-SUM(t.data_free))/1024/1024,2),0.00),"Mb") data_used,  
4 CONCAT(IFNULL(ROUND(SUM(data_free)/1024/1024,2),0.00),"Mb") data_free,  
5 IFNULL(ROUND((((SUM(t.data_length)+SUM(t.index_length))-SUM(t.data_free))/((SUM(t.data_length)+SUM(t.index_length)))*100,2),0) pct_used  
6 FROM INFORMATION_SCHEMA.SCHEMATA s, INFORMATION_SCHEMA.TABLES t
```

	✓	Q	SCHEMA_NAME	TABLE_NAME	total_size	data_used	data_free	pct_used
	30		online_food_order	feedback	0.03Mb	0.03Mb	0.00Mb	100.00
	31		online_food_order	orders	0.03Mb	0.03Mb	0.00Mb	100.00
	32		sakila	actor	0.03Mb	0.03Mb	0.00Mb	100.00
	33		online_food_order	company	0.02Mb	0.02Mb	0.00Mb	100.00
	34		online_food_order	customer	0.02Mb	0.02Mb	0.00Mb	100.00
	35		online_food_order	employee	0.02Mb	0.02Mb	0.00Mb	100.00
	36		online_food_order	login	0.02Mb	0.02Mb	0.00Mb	100.00
	37		online_food_order	menu	0.02Mb	0.02Mb	0.00Mb	100.00
	38		world	category	0.02Mb	0.02Mb	0.00Mb	100.00
	39		world	comments	0.02Mb	0.02Mb	0.00Mb	100.00
	40		sakila	category	0.02Mb	0.02Mb	0.00Mb	100.00

Find Out the Redo Log file from Innodb

```
mysql> SHOW ENGINE INNODB STATUS
```

```
LOG
```

```
---
```

```
Log sequence number          30972250
Log buffer assigned up to    30972250
Log buffer completed up to    30972250
Log written up to            30972250
Log flushed up to            30972250
Added dirty pages up to      30972250
Pages flushed up to          30972250
Last checkpoint at           30972250
2569 log i/o's done, 0.00 log i/o's/second
```

Buffer Pool and Memory

----- BUFFER POOL AND MEMORY -----

```
Total large memory allocated 0
Dictionary memory allocated 512459
Buffer pool size      511
Free buffers          233
Database pages        270
Old database pages    0
Modified db pages     0
Pending reads         0
Pending writes: LRU 0, flush list 0, single page 0
Pages made young 0, not young 0
0.00 youngs/s, 0.00 non-youngs/s
Pages read 20548, created 374, written 5810
0.00 reads/s, 0.00 creates/s, 0.00 writes/s
No buffer pool page gets since the last printout
Pages read ahead 0.00/s, evicted without access 0.00/s, Random read ahead 0.00/s
LRU len: 270, unzip_LRU len: 0
I/O sum[2]:cur[0], unzip sum[0]:cur[0]
```

Track The Errors

```
-----  
LATEST FOREIGN KEY ERROR  
-----
```

```
2022-04-08 16:25:17 0x3370 Transaction:
```

```
TRANSACTION 5429, ACTIVE 0 sec updating or deleting, thread declared inside InnoDB 4999
```

```
mysql tables in use 1, locked 1
```

```
4 lock struct(s), heap size 1128, 2 row lock(s), undo log entries 1
```

```
MySQL thread id 11, OS thread handle 13168, query id 669 localhost 127.0.0.1 root updating
```

```
DELETE FROM orders WHERE order_id=261
```

```
Foreign key constraint fails for table `online_food_order`.`payment`:
```

```
,  
  CONSTRAINT `payment_ibfk_1` FOREIGN KEY (`order_id`) REFERENCES `orders` (`order_id`)
```

```
Trying to delete in parent table, in index PRIMARY tuple:
```

```
DATA TUPLE: 9 fields;
```

```
0: len 4; hex 80000105; asc      ;;
```

```
1: len 6; hex 000000001535; asc      5;;
```

```
2: len 7; hex 020000013a07b9; asc      : ;;
```

```
3: len 4; hex 80000005; asc      ;;
```

```
4: SQL NULL;
```

```
5: SQL NULL;
```

```
6: len 4; hex 50616964; asc Paid;;
```

```
7: len 3; hex 8fcb66; asc  f;;
```

```
8: SQL NULL;
```

```
But in child table `online_food_order`.`payment`, in index order_id, there is a record:
```

```
PHYSICAL RECORD: n_fields 2; compact format; info bits 0
```

```
0: len 4; hex 80000105; asc      ;;
```

```
1: len 4; hex 800000a6; asc      ;;
```




Thanks

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