SQL PROJECT

Pizza Sales analysis

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Course: MASTER IN DATA SCIENCE AND ANALYTICS WITH AI

ABOUT DATASET:

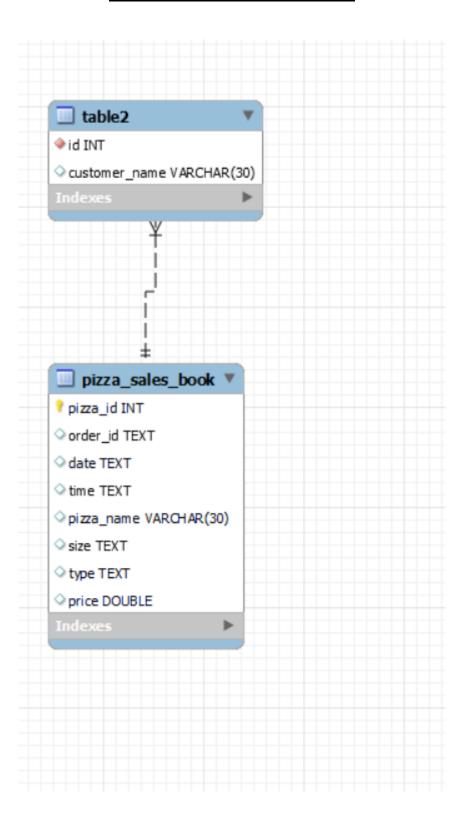
A synthetic dataset that describes pizza sales for a pizza place somewhere in the US. While the contents are artificial, the ingredients used to make the pizzas are far from it. There are 32 different pizzas that fall into 4 different categories: classic, chicken, supreme and veggie.

Column Description:

- id: The ID for the order, which consists of one or more pizzas at a give date and time
- **date:** A character representation of the order date, expressed in the ISO 8601 date format (YYYY-MM-DD)
- **time:** A character representation of the order time, expressed as a 24-hour time the ISO 8601 extended time format (hh:mm:ss)
- **name:** The short name for the pizza
- **size:** The size of the pizza, which can either be S, M, L, XL (rare!), or XXL (even rarer!); most pizzas are available in the S, M, and L sizes but exceptions apply
- **type:** The category or type of pizza, which can either be classic, chicken, supreme, or veggie
- **price:** The price of the pizza and the amount that it sold for (in USD)

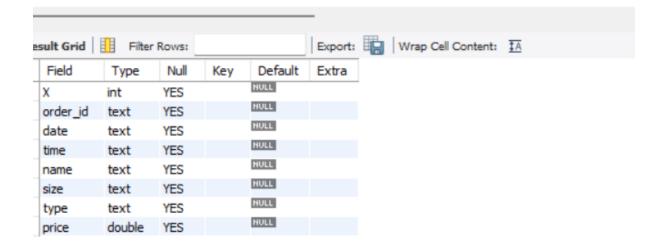
DATASET FROM: KAGGLE

Entity Relationship Diagram



1. Show the schema of the table.

- 4 -- 1.Show the schema of the tables
- 5 desc a year of pizza sales from a pizza place 872 68



2. Show whole record of the table

- 3 -- 2.show whole record of the table
- 4 SELECT* FROM a_year_of_pizza_sales_from_a_pizza_place_872_68

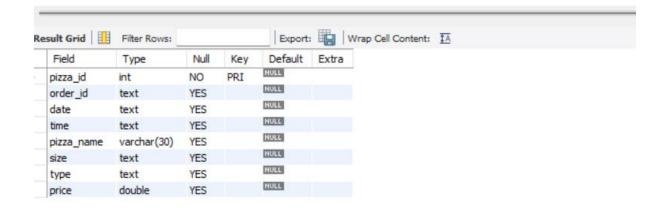


Add primary key in table 1

```
-- add primary key in the table name pizza_sales_book

alter table pizza_sales_book add constraint primary key (pizza_id);

desc pizza_sales_book;
```

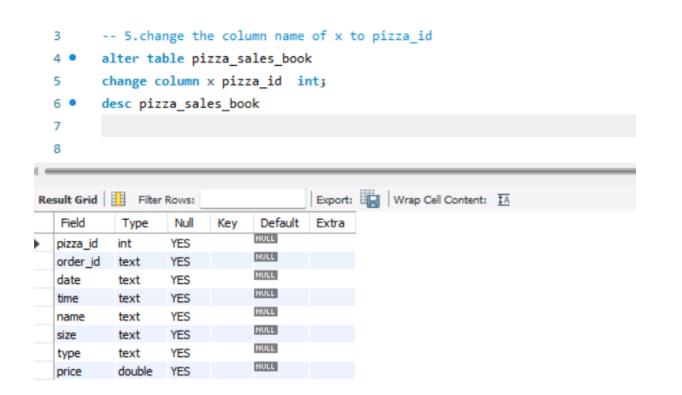


3.Create second table named as table2 with foreign key in table



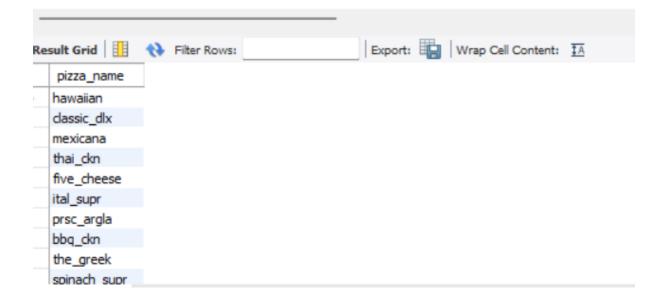
4.Rename table a_year_of_pizza_sales_from_a_pizza_place_872_68

5. Change the column name of x to pizza_id.



6.Command query to fetch pizza name using distinct

- 3 -- 6.command query to fetch pizza name using distinct
- 4 select distinct pizza_name from pizza_sales_book;

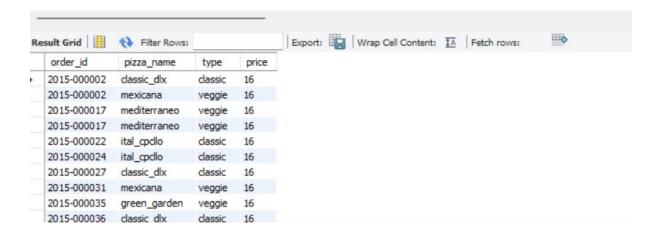


7.Query to fetch columns order_id, pizza_name, type, price whose price is 16

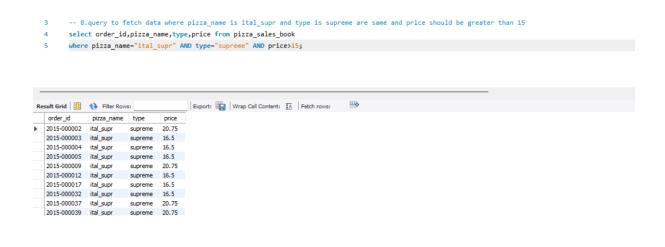
```
-- 7.query to fetch columns order_id,pizza_name,type,price whose price is 16

4 • select order_id,pizza_name,type,price from pizza_sales_book

where price =16;
```



8.Query to fetch data where pizza_name is ital_supr and type is supreme are same and price should be greater than 15



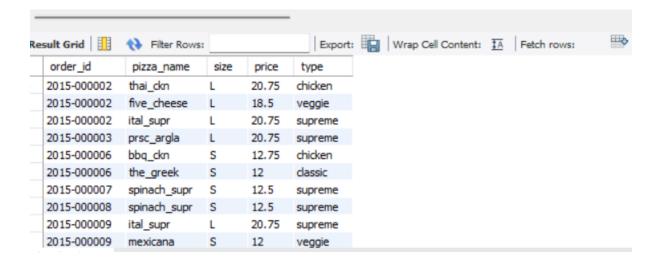
9. Query to fetch data where name and size are same or price is 12

```
    9.query to fetch data where name and size are same or price is 12
    select order_id,pizza_name,size,price from pizza_sales_book
    where pizza_name=size OR price=12;
```



10. Query to fetch data where size should not be medium

- 3 -- 10.Query to fetch data where size should not be medium
- 4 select order_id,pizza_name,size,price,type from pizza_sales_book
- 5 where NOT size='M';

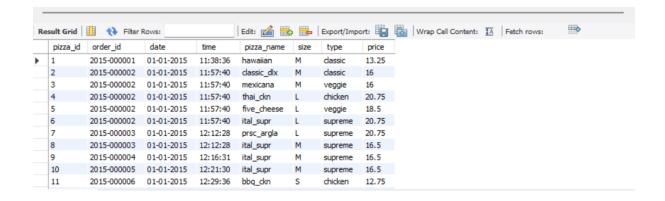


11. Write query to fetch data between date 01-01-2015 to 10-01-2015.

```
-- 11.write query to fetch data between date 01-01-2015 to 10-01-2015.

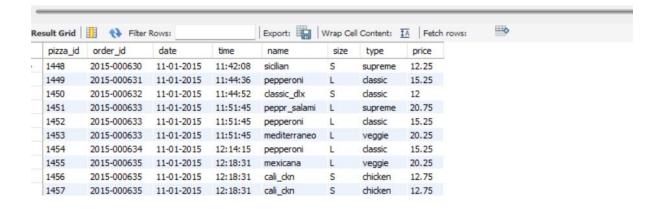
4 Select * from pizza_sales_book

where date BETWEEN'01-01-2015' and '10-01-2015';
```



12. Write guery to fetch data not between date 01-01-2015 to 10-01-2015.

```
-- 12.write query to fetch data not between date 01-01-2015 to 10-01-2015.
4 • select* from pizza_sales_book
    where date NOT BETWEEN '01-01-2015' and '10-01-2015';
```



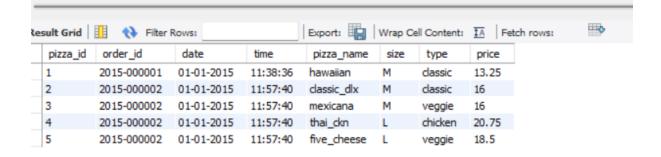
13. Write query to fetch data where price is 12,16.5,20.75

```
2 -- 13.write query to fetch data where price is 12,16.5,20.75 .
3 • select order_id,pizza_name,type,size,price from pizza_sales_book
4 where price IN (12,16.5,20.75);
```



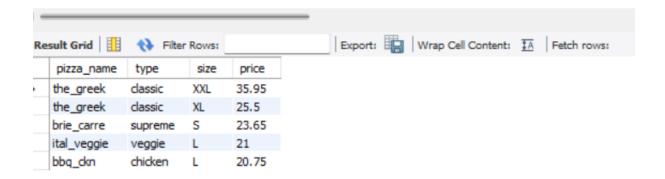
14. Write query to fetch top 5 record from table.

```
2 -- 14.write query to fetch top 5 record from table.
3 • select* from pizza_sales_book
4 LIMIT 5;
```



15. Write a query to show top 5 highest price of pizza

- 3 -- 15.write a query to show top 5 highest price of pizza
- 4 select distinct pizza_name, type, size, price from pizza_sales_book
- 5 order by price desc limit 5;



16.Write a query concat two column pizza_name and type.

```
-- 16.write a query concat two column pizza_name and type.
 3
 4 •
        select concat(pizza_name,'
                                        ',type)from pizza_sales_book;
                                         Export: Wrap Cell Content: TA Fetch rows:
concat(pizza_name,
   ',type)
  hawaiian classic
  classic dlx classic
  mexicana veggie
  thai_ckn chicken
  five_cheese veggie
  ital_supr supreme
  prsc_argla supreme
  ital_supr supreme
  ital supr supreme
```

17. Write a query to gives pizza name name in upper case.

- 2 -- 17.write a query to gives pizza_name name in upper case.
 3 select upper(pizza_name) as uppercase, pizza_name from pizza_sales_book;
- Export: Wrap Cell Content: TA Fetch rows: uppercase pizza_name HAWAIIAN hawaiian CLASSIC_DLX dassic_dlx MEXICANA mexicana THAI_CKN thai_ckn FIVE_CHEESE five_cheese ITAL_SUPR ital_supr PRSC_ARGLA prsc_argla ITAL_SUPR ital_supr ITAL_SUPR ital_supr

18. Use of maths functions.

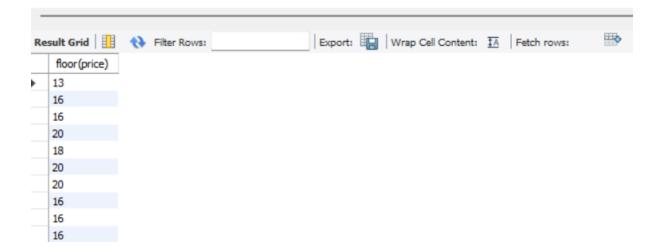
1)Ceil ()

2 -- ceiling() function
3 • select price,ceiling(price) from pizza_sales_book limit 8;

Export: Wrap Cell Content: TA Fetch rows: tesult Grid 🔢 💎 Filter Rows: price ceiling(price) 13.25 16 16 16 16 20.75 21 18.5 20.75 21 20.75 21 16.5 17

2) Floor ()

- 2 -- floor()
- 3 select floor(price) from pizza_sales_book limit 10;



19.Date Functions.

1)Now ()

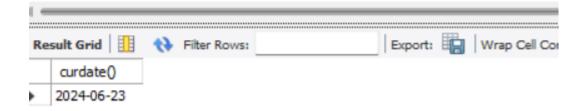
- 3 -- Now() function
- 4 select Now() as current_date_time;



2) curdate ()

- 2 -- curdate()
- 3 select curdate();

4



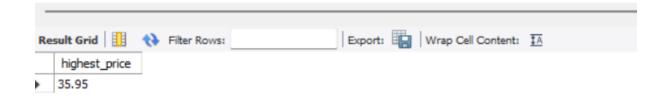
20. Write a query to fetch number of orders in table

```
3 -- 20.write a query to fetch number of orders in table
4 • select count(id) as no_of_orders from pizza_sales_book;
5
```

Result Grid		43	Filter Rows:	Exp	port:	Wrap Cell Content:	<u>IA</u>
	no_of_orders						
•	49574						

21. Write a query to show highest price of pizza.

```
    2 -- 21. write a query to show highest price of pizza.
    3 • select max(price) as highest_price from pizza_sales_book;
```



22. Write a query to fetch number of pizza name by pizza type.

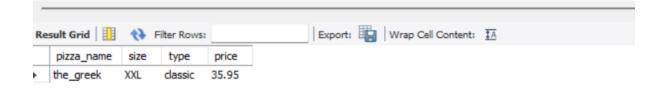
```
-- 22.write a query to fetch number of pizza name by pizza type.
        select pizza_name,count(type) as no_of_pizza from pizza_sales_book
 3 •
        group by pizza_name;
                                      Export: Wrap Cell Content: IA
pizza_name no_of_pizza
             2422
  hawaiian
  classic_dlx
             2453
  mexicana
             1484
  thai_ckn 2371
  five_cheese 1409
  ital_supr 1884
  prsc_argla
             1457
  bbq_dkn
             2432
  the_greek
             1420
  spinach_supr 950
```

23. Write a query to fetch pizza name whose number of types are more than 2000.

cali_ckn 2370

24. Write a query to find highest price of pizza using subquery.

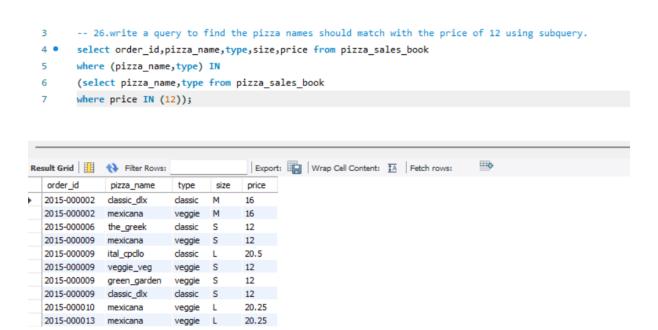
```
2 -- 24.write a query to find highest price of pizza using subquery.
3 • select distinct pizza_name,size,type,price from pizza_sales_book
4 where price=(select max(price) from pizza_sales_book);
```



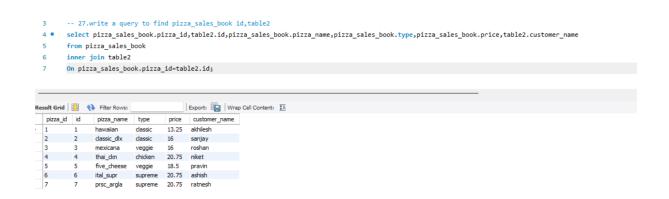
25 Write a query to find 2nd highest price of pizza using subquery

```
-- 25 Write a query to find 2nd highest price of pizza using subquery
     select pizza_name,type,size,price from pizza_sales_book
    where price <(select max(price) from pizza_sales_book));</pre>
 6
 7
 8 •
      select pizza_name,type,size,price from pizza_sales_book
      where price <(select max(price) from pizza_sales_book)</pre>
 9
       order by price desc limit 1;
10
                                 Export: Wrap Cell Content: TA Fetch rows:
pizza_name type size price
the_greek classic XL
```

26. Write a query to find the pizza names should match with the price of 12 using subquery.



27.write a query to find pizza_sales_book id,table2



28 Create View