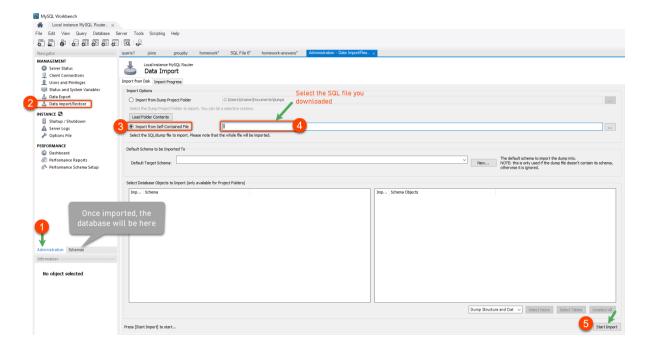
- 1. Open MySQL Workbench, login if necessary
- 2. Click on the "server administration" tab (see illustration, click to expand)
- 3. Click on "Data Import/Restore"
- 4. Select the option "Import from self-contained file"
- 5. Specify the path of the downloaded awesome-chocolates-data.sql file
- 6. Start import



-- To check what is in the database

1.

SHOW tables;

-- To check structure of the sales table

desc sales;

-- To check what is in the tables

SELECT * FROM sales;

SELECT * FROM people;

SELECT * FROM geo;

SELECT * FROM product;

-- To see some of the attributes

2.

SELECT

SaleDate, Amount, Customers

FROM

sales;

```
-- Selecting in our own order
3.
      SELECT
        Amount, Customers, GeoID
      FROM
        sales;
-- Calculation in SQL queries
4.
      SELECT
         SaleDate, Amount, Boxes, Amount / Boxes 'Amount per Box'
      FROM
        sales;
-- Impose conditions using WHERE Clause it works like filter
5.
      SELECT
      FROM
        sales
      WHERE
        Amount > 10000;
-- ORDER Clause works as sorting
6.
      SELECT
      FROM
        sales
      WHERE
        Amount > 10000
      ORDER BY Amount;
-- DESC keyword to arrange the result in descending order
7.
      SELECT
      FROM
        sales
      WHERE
        Amount > 10000
      ORDER BY Amount DESC;
```

with respect to PID and Amount (amount in descending order). 8. SELECT **FROM** sales WHERE GeoID = 'g1' ORDER BY PID, Amount DESC; -- Get all the records on or after 1st Jan 2022 from sales table where amount is greater than 10000. 9. **SELECT FROM** sales WHERE Amount > 10000 AND SaleDate >= '2022-01-01'; -- Get all the records of 2022 from sales table where amount is greater than 10000, sort the result in descending order of amount. 10. SELECT SaleDate, Amount **FROM** sales WHERE Amount > 10000 AND YEAR(SaleDate) = 2022 ORDER BY Amount DESC; -- Get all the records form sales table where number of boxes are between 0 and 50. 11. **SELECT FROM** sales WHERE boxes >= 0 AND Boxes <= 50; 12.

SELECT

-- Get all the records from sales table where GeoID is g1 and display the result by sorting

```
*
       FROM
         sales
       WHERE
         Boxes BETWEEN 0 AND 50;
-- Some of Date functions
-- Get SaleDate, Amount, Boxes from sales table where day of sale is 'Friday'.
13.
       SELECT
         SaleDate, Amount, Boxes, DAYNAME(saledate) AS 'Day of Week'
       FROM
         sales
       WHERE
         DAYNAME(saledate) = 'Friday';
-- Get all the records of Delish and Jucies teams from people table.
14.
       SELECT
       FROM
         people
       WHERE
         team IN ('Delish', 'Jucies');
-- Get all the records of Salespersons whose names start with 'B' from people table.
15.
       SELECT
       FROM
         people
       WHERE
         Salesperson LIKE 'B%';
16.
       SELECT
       FROM
         people
       WHERE
         Salesperson LIKE '%B%';
```

-- Get SaleDate and Amount column from sales table and a new column to mention the amount when amount is < 1000 as 'Under 1k', when < 5000 as 'Under 5k', < 10000 as 'Under 10k' else '10k or more'.

17.

```
SELECT
SaleDate,
Amount,
CASE
WHEN amount < 1000 THEN 'Under 1k'
WHEN Amount < 5000 THEN 'Under 5k'
WHEN Amount < 10000 THEN 'Under 10k'
ELSE '10k or more'
END AS 'Amount category'
FROM
sales;
```

- -- Joins
- -- Before using Joins understand your data well.

```
SELECT * FROM sales;
SELECT * FROM people;
SELECT * FROM geo;
SELECT * FROM product;
```

-- Get date of sale, amount and the name of salespersons by using Joins.

18.

```
SELECT
s.SaleDate, s.Amount, p.Salesperson
FROM
sales s
JOIN
people p on p.SPID = s.SPID;
```

-- Get date of sale, amount and the name of products by using Joins.

19.

```
select
s.SaleDate, s.Amount, pr.Product
FROM
sales s
LEFT JOIN
products pr ON pr.PID = s.PID;
```

-- Get date of sale, amount, name of salesperson, name of product and team by using Joins. 20.

```
SELECT
s.SaleDate, s.Amount, p.Salesperson, pr.Product, p.Team
FROM
sales s
JOIN
people p ON p.SPID = s.SPID
JOIN
products pr on pr.PID = s.PID;
```

-- Get date of sale, amount, name of salesperson, name of product and team who have sales less than \$500 by using Joins.

21.

```
SELECT
    s.SaleDate, s.Amount, p.Salesperson, pr.Product, p.Team
FROM
    sales s
        JOIN
    people p ON p.SPID = s.SPID
        JOIN
    products pr ON pr.PID = s.PID
WHERE
    s.Amount < 500;</pre>
```

-- Get date of sale, amount, name of salesperson, name of product, of 'Delish' team who have sales less than \$500 by using Joins.

22.

```
SELECT
    s.SaleDate, s.Amount, p.Salesperson, pr.Product, p.Team
FROM
    sales s
        JOIN
    people p ON p.SPID = s.SPID
        JOIN
    products pr ON pr.PID = s.PID
WHERE
    s.Amount < 500 AND p.Team = 'Delish';</pre>
```

-- Get date of sale, amount, name of salesperson, name of product and team who have sales less than \$500 and team not mentioned by using Joins.

23.

```
SELECT
s.SaleDate, s.Amount, p.Salesperson, pr.Product, p.Team
FROM
sales s
```

```
JOIN

people p ON p.SPID = s.SPID

JOIN

products pr ON pr.PID = s.PID

WHERE

s.Amount < 500 AND p.Team = ";
```

-- Get date of sale, amount, name of salesperson, name of product, 'Delish' team and Geography where sales is less than \$500 and country is New Zealand or India by using Joins. 24.

```
SELECT
  s.SaleDate,
  s.Amount,
  p.Salesperson,
  pr.Product,
  p.Team,
  g.Geo
FROM
  sales s
    JOIN
  people p ON p.SPID = s.SPID
    JOIN
  products pr ON pr.PID = s.PID
  geo g ON g.GeoID = s.GeoID
WHERE
  s.Amount < 500 AND p.Team = 'Delish'
    AND g.Geo IN ('New Zealand', 'India');
```

-- Get date of sale, amount, name of salesperson, name of product, 'Delish' team and Geography where sales is less than \$500 and country is New Zealand or India by using Joins and sort the result by sale date.

25.

```
select
s.SaleDate,
s.Amount,
p.Salesperson,
pr.Product,
p.Team,
g.Geo
FROM
sales s
JOIN
people p ON p.SPID = s.SPID
```

```
JOIN
         products pr ON pr.PID = s.PID
           JOIN
         geo g ON g.GeoID = s.GeoID
       WHERE
         s.Amount < 500 AND p.Team = 'Delish'
           AND g.Geo IN ('New Zealand', 'India')
       ORDER BY s.SaleDate;
-- Group By is used as Pivot table in excel
-- Get total sale, average sale, total boxes and average boxes sold in each GeoID from sales
table.
       SELECT
         GeoID,
         SUM(Amount),
         AVG(Amount),
         SUM(Boxes),
         AVG(Boxes)
       FROM
         sales
       GROUP BY GeoID;
-- Get total sale, average sale, total boxes and average boxes sold in each Geography.
       SELECT
         g.Geo, SUM(Amount), AVG(Amount), SUM(Boxes), AVG(Boxes)
       FROM
         sales s
           JOIN
         geo g ON g.GeoID = s.GeoID
       GROUP BY g.Geo;
-- Get total boxes sold and total sale according to each product category and team.
       SELECT
         pr.Category, p.Team, SUM(Boxes), SUM(Amount)
       FROM
```

26.

27.

28.

sales s JOIN

JOIN

people p ON p.spid = s.spid

products pr ON pr.pid = s.pid group by pr.Category, p.Team;

-- Get total boxes sold and total sale according to each product category and team and sort the data with respect to Category and team.

29.

```
SELECT
pr.Category, p.Team, SUM(Boxes), SUM(Amount)
FROM
sales s
JOIN
people p ON p.spid = s.spid
JOIN
products pr ON pr.pid = s.pid
GROUP BY pr.Category , p.Team
ORDER BY pr.Category , p.Team;
```

-- Get total boxes sold and total sale according to each product category and team where team is not blank and sort the data with respect to Category and team.

30.

```
SELECT
pr.Category, p.Team, SUM(Boxes), SUM(Amount)
FROM
sales s
JOIN
people p ON p.spid = s.spid
JOIN
products pr ON pr.pid = s.pid
WHERE
p.Team <> ''
GROUP BY pr.Category , p.Team
ORDER BY pr.Category , p.Team;
```

-- Get total sale as 'Total Amount' according to each product and sort the data with respect to 'Total Amount' in descending order.

31.

```
SELECT
pr.Product, SUM(s.Amount) AS 'Total Amount'
FROM
sales s
JOIN
products pr ON pr.pid = s.pid
GROUP BY pr.Product
ORDER BY 'Total Amount' DESC;
```

-- Get total boxes sold and total sale of top five products.

```
SELECT
pr.Product, SUM(s.Amount) AS 'Total Amount'
FROM
sales s
JOIN
products pr ON pr.pid = s.pid
GROUP BY pr.Product
ORDER BY 'Total Amount' DESC
LIMIT 5;
```