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The screenshot shows the SQL Studio interface with a query editor and a result grid. The query is as follows:

```
1. USE Papa_Johns;
2.
3. -- 1) Average Price of Foods at Each Restaurant
4. SELECT
5.     restaurants.name, -- calling the restaurants
6.     AVG(foods.price)
7. FROM restaurants
8. INNER JOIN serves -- using inner join for the ID's for average prices
9.     ON restaurants.restID = serves.restID
10. INNER JOIN foods
11.     ON serves.foodID = foods.foodID
12. GROUP BY restaurants.restID, restaurants.name; -- Grouping the restaurants of avg food price
```

The result grid displays the following data:

name	AVG(foods.pric...
La Trattoria	13.5
Sushi Haven	12
Taco Town	9.5
Bistro Paris	13.5
Thai Delight	12
Indian Spice	13.5

The screenshot shows the SQL Studio interface with a query editor and a result grid. The query is as follows:

```
14. GROUP BY restaurants.restID, restaurants.name; -- Grouping the restaurants of avg food price
15.
16. -- 2) Maximum Food Price at Each Restaurant
17. SELECT
18.     restaurants.name, -- calling restaurants
19.     MAX(foods.price)
20. FROM restaurants
21. INNER JOIN serves -- using inner join to find highest food price
22.     ON restaurants.restID = serves.restID
23. INNER JOIN foods
24.     ON serves.foodID = foods.foodID
25. GROUP BY restaurants.restID, restaurants.name; -- grouping restaurants by their highest priced item
```

The result grid displays the following data:

name	MAX(foods.pri...
La Trattoria	15
Sushi Haven	14
Taco Town	11
Bistro Paris	18
Thai Delight	13
Indian Spice	15

DB Assignment 2 (papa_johns) DB Assignment 2

Administration Schemas Papa_Johns - Schema HW2 Administration - Data Export

MANAGEMENT

- Server Status
- Client Connections
- Users and Privileges
- Status and System Variables
- Data Export
- Data Import/Restore

INSTANCE

- Startup / Shutdown
- Server Logs
- Options File

PERFORMANCE

- Dashboard
- Performance Reports
- Performance Schema Setup

```
27 -- 3) Count of Different Food Types Served at Each Restaurant
28 SELECT
29     restaurants.name,          -- show the restaurant name
30     COUNT(*) AS type_count    -- count how many different types this restaurant serves
31 FROM (
32     SELECT
33         serves.restID,
34         foods.type
35     FROM serves
36     INNER JOIN foods
37         USING (foodID)        -- combine each served item to its food record
38     GROUP BY serves.restID, foods.type -- one row for restaurant and type
39 ) AS restaurant_type_pairs
40 INNER JOIN restaurants
41     ON restaurants.restID = restaurant_type_pairs.restID
42 GROUP BY restaurants.restID, restaurants.name; -- group restuarants result
43
```

Result Grid

name	type_count
La Trattoria	1
Sushi Haven	2
Taco Town	1
Bistro Paris	1
Thai Delight	1
Indian Spice	1

Object Info Session

Schema: Papa_Johns

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```
45 GROUP BY restaurants.restID, restaurants.name; -- group restuarants result
46
47 -- 4) Average Price of Foods Served by Each Chef
48 SELECT
49     chefs.name,                -- calling upon chefs
50     AVG(foods.price)
51 FROM chefs
52 NATURAL JOIN works            -- using natural join to gather everything for chefs and ID's
53 INNER JOIN serves            -- using inner join
54     USING (restID)          -- inner join to get the restuarants and the food they served
55 INNER JOIN foods
56     USING (foodID)          -- finding price of food to caulculate ag price by each chef
57 GROUP BY chefs.chefID, chefs.name; -- grouping each chef with their avg
58
59
```

Result Grid

name	AVG(foods.pric...
John Doe	11.5
Jane Smith	12.75
Robert Brown	12.75
Alice Johnson	11.5
Emily Davis	12.75
Michael Wilson	12.75

Object Info Session

Schema: Papa_Johns

DB Assignment 2 (papa_johns) DB Assignment 2

Administration Schemas Papa_Johns - Schema HW2 Administration - Data Export

Limit to 1000 rows

```
58
59
60 -- 5) Restaurant with the Highest Average Food Price
61 SELECT
62     restaurants.name, -- calling all restuarants
63     AVG(foods.price)
64 FROM restaurants
65 INNER JOIN serves -- using inner join to get every single restaurant and what they serve
66     ON restaurants.restID = serves.restID
67 INNER JOIN foods -- using inner join to combine the foods to calculate avg
68     ON serves.foodID = foods.foodID
69 GROUP BY restaurants.restID, restaurants.name
70 ORDER BY AVG(foods.price) DESC -- only asking for the highest so order by descending and limit to 1
71 LIMIT 1;
72
73
74
75 -- Extra Credit
```

100% 1-72

Result Grid Filter Rows: Search Export: Fetch rows:

name	AVG(foods.pric...
La Trattoria	13.5

DB Assignment 2 (papa_johns) DB Assignment 2

Administration Schemas Papa_Johns - Schema HW2 Administration - Data Export

Limit to 1000 rows

```
75 -- Extra Credit
76 SELECT
77     appc.name, -- average price per chef simplified (appc)
78     appc.avg_price,
79     restaurant_lists_per_chef.restaurants -- list of restaurants they work at
80 FROM
81     (
82     SELECT
83         chefs.chefID,
84         chefs.name,
85         (Documents.price) AS avg_price -- calculate the average price of foods linked to this chef
86     FROM chefs
87     NATURAL JOIN works -- combine chefs to works using chefID
88     INNER JOIN serves -- connect the restaurants they work at to the foods served
89         USING (restID)
90     INNER JOIN foods
91         USING (foodID) -- show food price
92     GROUP BY chefs.chefID, chefs.name -- group by chef so each one has a single average
```

100% 116-109

Result Grid Filter Rows: Search Export:

name	avg_price	restaurants
Jane Smith	12.75	La Trattoria, Sushi Haven
Robert Brown	12.75	Sushi Haven, Bistro Paris
Emily Davis	12.75	Thai Delight, Indian Spice
Michael Wilson	12.75	Thai Delight, Indian Spice
John Doe	11.5	La Trattoria, Taco Town
Alice Johnson	11.5	Taco Town, Bistro Paris

Object Info Session

Schema: Papa_Johns