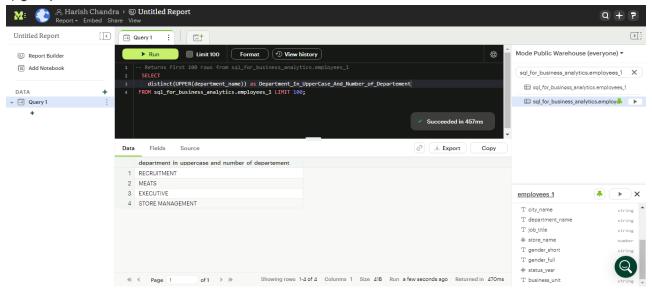
Aggregate Functions MCQs

1.Observe the given SQL query and choose the correct option.
SELECT branch_name, COUNT (DISTINCT customer_name)
FROM depositor, account
WHERE depositor.account_number = account.account_number
GROUP BY branch_id
a) The query is syntactically correct but gives the wrong answer
b) The query is syntactically wrong
c) The query is syntactically correct and gives the correct answer
d) The query contains one or more wrongly named clauses.
Ans is a
2.We apply the aggregate function to a group of sets of attributes using theclause.
a) group by
b) group
Ans is a

c) group set



d) group attribute

3. The aggregation operation adds up all the values of the attrib

- a) add
- b) avg
- c) max
- d) sum

Ans is d

- 4. State true or false: Any attribute which is present in the having clause without being aggregated must not be present in the group by clause.
- a) True
- b) False



Jgjhg

- 5. What values does the count(*) function ignore?
- a) Repetitive values
- b) Null values
- c) Characters
- d) Integers

Ans is b

Use the dataset sql_for_business_analytics.employees_1

1) Write a SQL query to fetch the departments in upper case, then show the number of departments.

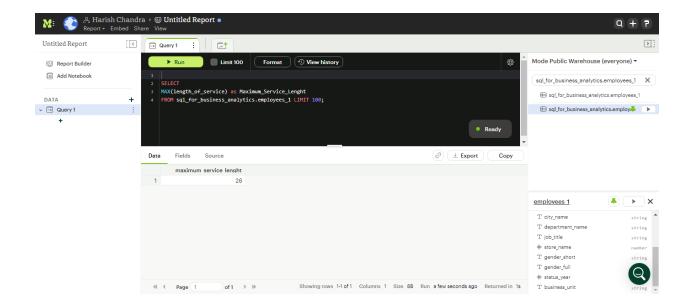
SELECT

distinct(UPPER(department_name)) as Department_In_UpperCase_And_Number_of_Departement FROM sql_for_business_analytics.employees_1 LIMIT 100;

```
SELECT branch_name, COUNT (DISTINCT customer_name) FROM depositor, account WHERE depositor.account number = account.account number GROUP BY branch id
```

2) Find the maximum service length

```
SELECT MAX(length_of_service) AS Maximum_Service_Length FROM
sql_for_business_analytics.employees_1;
```



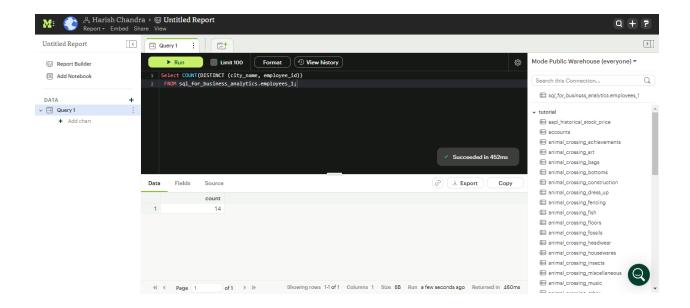
SELECT

MAX(length_of_service) as Maximum_Service_Lenght FROM sql_for_business_analytics.employees_1 LIMIT 100;

3) Find the number of employees belonging to each unique city.

Select COUNT(DISTINCT (city_name, employee_id))
FROM sql_for_business_analytics.employees_1;

SELECT city_name, COUNT(*) AS Number_of_Employees FROM sql_for business_analytics.employees_1 GROUP BY city_name;



4) Find the minimum and maximum age at which an employee was terminated.

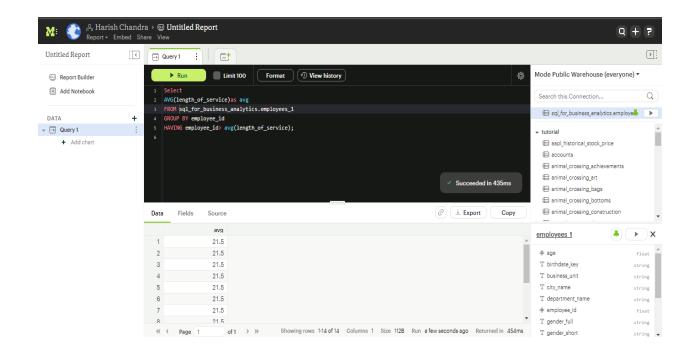
```
SELECT Year

MIN(age) as minimum _age ,MAX(age) as maximum _age
FROM sql_for_business_analytics.employees_1
WHERE employee are 'terminated'
GROUP BY year
ORDER BY YEAR
```

```
SELECT MIN(age) AS Minimum_Age_Terminated, MAX(age) AS
Maximum_Age_Terminated FROM sql_for_business_analytics.employees_1 WHERE
employment_status = 'terminated';
```

5) Calculate the average service length and find those employees whose service length is greater than average.

SELECT
FROM
WHERE
SELECT AVG
FROM



SELECT

AVG (length of services) AS Average

FROM sql_for_business_analytics.employees_1

GROUP BY employee id

HAVING employee_id > AVG (length_of_services);