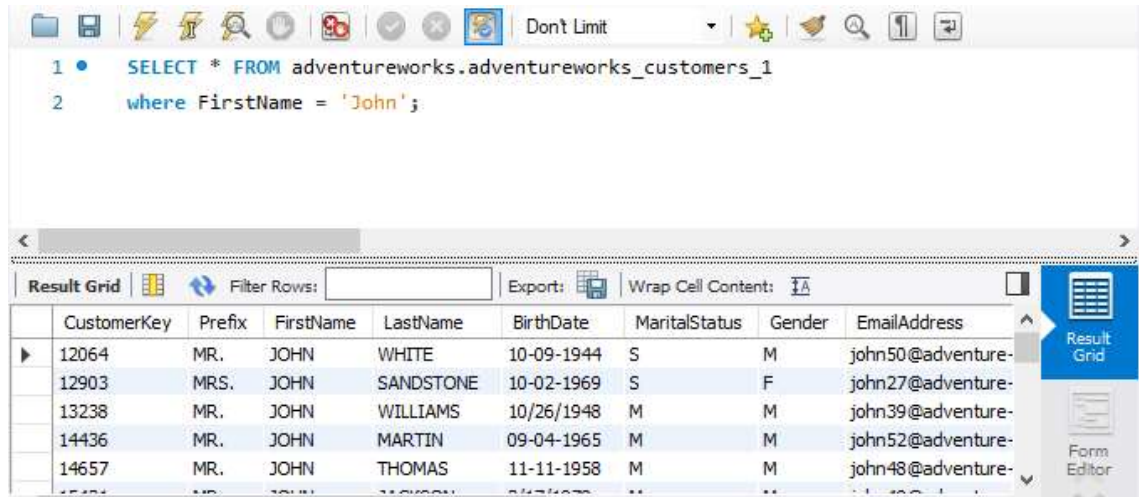


MySQL practice worksheet

1. Write a query to find all customers with the first name 'John'.



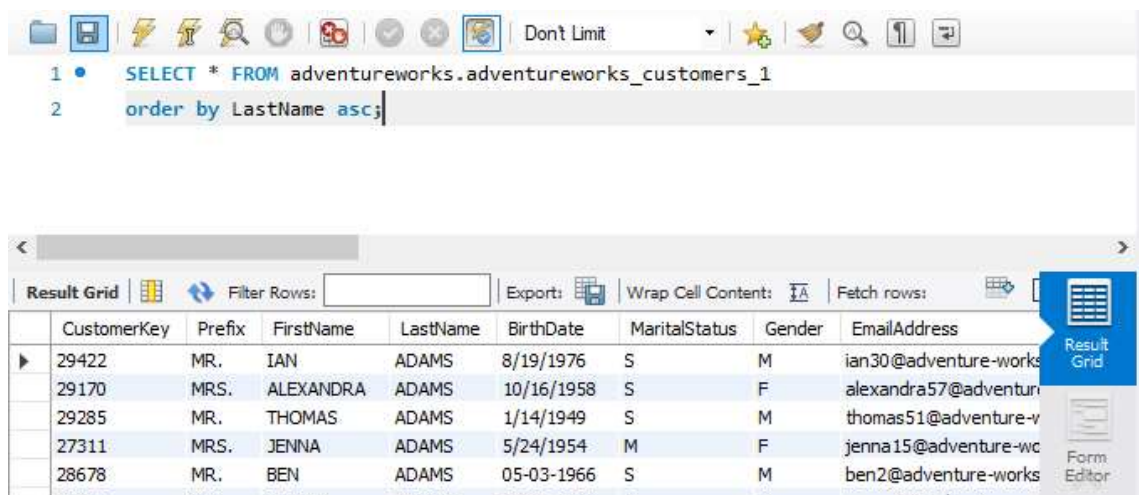
The screenshot shows the MySQL Workbench interface. The query editor at the top contains the following SQL query:

```
1 • SELECT * FROM adventureworks.adventureworks_customers_1
2   where FirstName = 'John';
```

Below the query editor, the 'Result Grid' tab is active, displaying a table of results. The table has the following columns: CustomerKey, Prefix, FirstName, LastName, BirthDate, MaritalStatus, Gender, and EmailAddress. The results are filtered to show only customers with the first name 'John'.

CustomerKey	Prefix	FirstName	LastName	BirthDate	MaritalStatus	Gender	EmailAddress
12064	MR.	JOHN	WHITE	10-09-1944	S	M	john50@adventure-
12903	MRS.	JOHN	SANDSTONE	10-02-1969	S	F	john27@adventure-
13238	MR.	JOHN	WILLIAMS	10/26/1948	M	M	john39@adventure-
14436	MR.	JOHN	MARTIN	09-04-1965	M	M	john52@adventure-
14657	MR.	JOHN	THOMAS	11-11-1958	M	M	john48@adventure-

2. Create a query to sort customers alphabetically by their last name in ascending order.



The screenshot shows the MySQL Workbench interface. The query editor at the top contains the following SQL query:

```
1 • SELECT * FROM adventureworks.adventureworks_customers_1
2   order by LastName asc;
```

Below the query editor, the 'Result Grid' tab is active, displaying a table of results. The table has the following columns: CustomerKey, Prefix, FirstName, LastName, BirthDate, MaritalStatus, Gender, and EmailAddress. The results are sorted alphabetically by the last name in ascending order.

CustomerKey	Prefix	FirstName	LastName	BirthDate	MaritalStatus	Gender	EmailAddress
29422	MR.	IAN	ADAMS	8/19/1976	S	M	ian30@adventure-works
29170	MRS.	ALEXANDRA	ADAMS	10/16/1958	S	F	alexandra57@adventu
29285	MR.	THOMAS	ADAMS	1/14/1949	S	M	thomas51@adventure-v
27311	MRS.	JENNA	ADAMS	5/24/1954	M	F	jenna15@adventure-wc
28678	MR.	BEN	ADAMS	05-03-1966	S	M	ben2@adventure-works

3. Write a query that updates the email address of a customer with CustomerKey 12345 to 'newemail@example.com'.

adventureworks_customers_1

```

1 ALTER TABLE adventureworks_customers_1
2 ADD PRIMARY KEY (CustomerKey);
3
4 update adventureworks_customers_1
5 set EmailAddress = 'newemail@example.com'
6 where CustomerKey = '12345';
7

```

SQLAdditions: Automal disabled. manuall current c toggle Context Help

Output

#	Time	Action	Message
1	09:01:09	SELECT * FROM adventureworks_customers_1	18148 row(s) returned
2	09:02:29	SELECT * FROM adventureworks_customers_1	18148 row(s) returned
3	09:03:01	update adventureworks_customers_1 set EmailA...	Error Code: 1175. You are using safe update mode and you trie
4	09:10:04	ALTER TABLE adventureworks_customers_1 A...	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0
5	09:10:25	update adventureworks_customers_1 set EmailA...	1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0

4. Create a query to calculate the average annual income of customers.

adventureworks_customers_1

```

1 select (sum(AnnualIncome) / count(*)) AverageIncome from
2 adventureworks_customers_1

```

Result Grid

AverageIncome
57269.120564249504

Result Grid

5. Write a query to find customers who were born in the year 1980.

adventureworks_customers_1

```

1 alter table adventureworks_customers_1
2 add primary key (CustomerKey);
3
4 update adventureworks_customers_1 set
5 birthdate = '0' + birthdate
6 where length(birthdate) = 9;
7
8 alter table adventureworks_customers_1
9 add column (newBirthDay text);
10
11 update adventureworks_customers_1 set
12 newBirthDay = concat(substring(birthdate,7,4), '-', substring(birthdate,1,2), '-', substring(birthdate,4,2))
13 where length(birthdate) >= 9;
14
15 select newBirthDay from adventureworks_customers_1
16 where length(birthdate) >= 9;
17
18 select * from adventureworks_customers_1
19 where length(birthdate) >= 9 and year(cast(newBirthDay as date)) = '1980'

```

Result Grid

CustomerKey	Prefix	FirstName	LastName	BirthDate	MaritalStatus	Gender	EmailAddress	AnnualIncome
11130	MS.	CAROLINE	RUSSELL	01-06-1980	M	F	caroline21@adventure-works.com	30000
11131	MS.	AMANDA	RIVERA	03-12-1980	M	F	amanda7@adventure-works.com	30000
11132	MS.	MELISSA	RICHARDSON	10/26/1980	S	F	melissa31@adventure-works.com	30000
11133	MS.	ANGELA	GRIFFIN	09-08-1980	S	F	angela23@adventure-works.com	30000

Result Grid

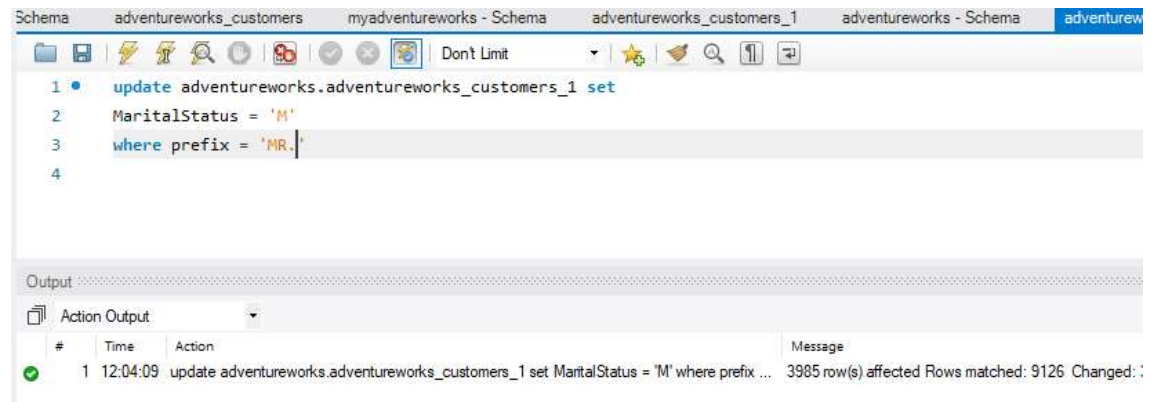
6. Create a query that counts the number of customers with a specific marital status (e.g., Single).

```
1 • select count(*) Total_Singles from adventureworks.adventureworks_customers_1
2 where MaritalStatus = 'S'
```



Total_Singles
8331

7. Write a query to update the marital status of customers with a specific prefix (e.g., Mr.) to 'Married'.



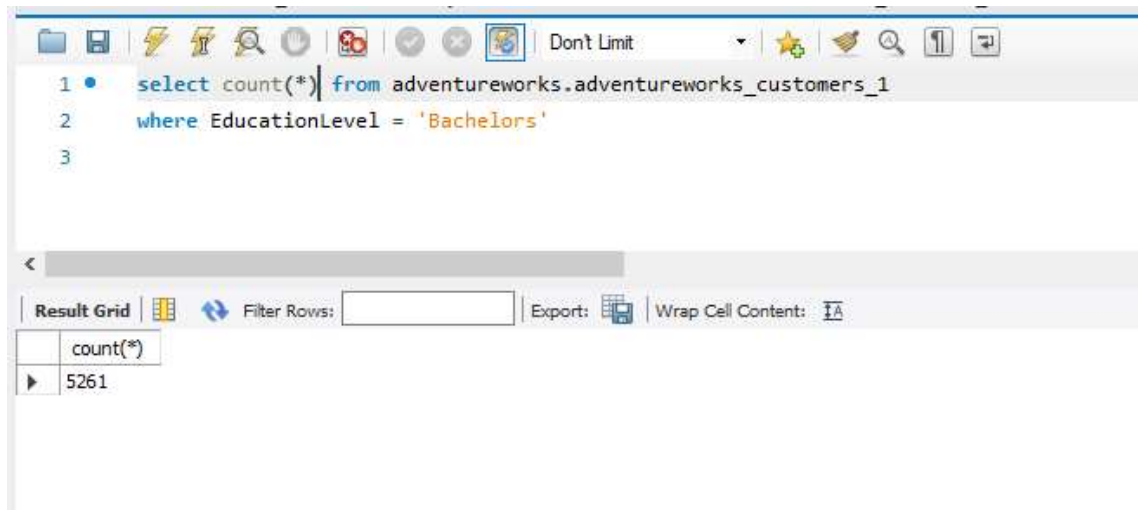
```
1 • update adventureworks.adventureworks_customers_1 set
2 MaritalStatus = 'M'
3 where prefix = 'MR.'
4
```

Output

Action Output

#	Time	Action	Message
1	12:04:09	update adventureworks.adventureworks_customers_1 set MaritalStatus = 'M' where prefix ...	3985 row(s) affected Rows matched: 9126 Changed: :

8. Create a query to calculate the total number of customers with a specific education level (e.g., Bachelor's degree).



The screenshot shows a SQL query window with the following text:

```

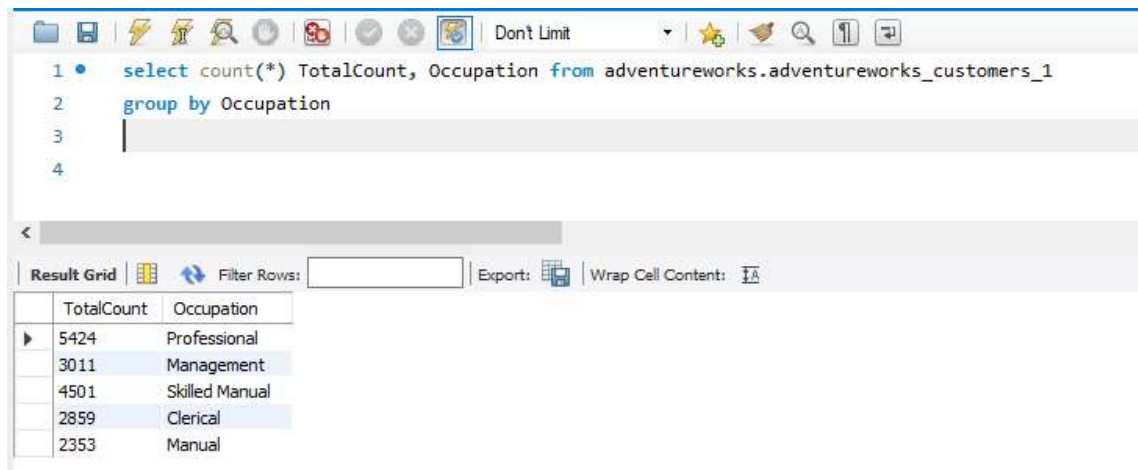
1 • select count(*) from adventureworks.adventureworks_customers_1
2   where EducationLevel = 'Bachelors'
3

```

Below the query window is the 'Result Grid' tab. It displays a single row with the following data:

count(*)
5261

9. Write a query that counts the number of customers in each occupation category.



The screenshot shows a SQL query window with the following text:

```

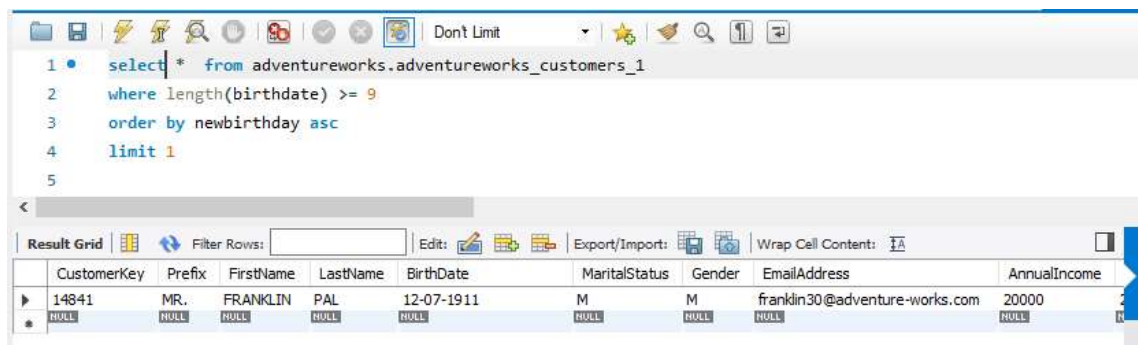
1 • select count(*) TotalCount, Occupation from adventureworks.adventureworks_customers_1
2   group by Occupation
3
4

```

Below the query window is the 'Result Grid' tab. It displays a table with the following data:

TotalCount	Occupation
5424	Professional
3011	Management
4501	Skilled Manual
2859	Clerical
2353	Manual

10. Create a query to find the oldest customer in the dataset based on their birthdate.



The screenshot shows a SQL query window with the following text:

```

1 • select * from adventureworks.adventureworks_customers_1
2   where length(birthdate) >= 9
3   order by newbirthday asc
4   limit 1
5

```

Below the query window is the 'Result Grid' tab. It displays a table with the following data:

CustomerKey	Prefix	FirstName	LastName	BirthDate	MaritalStatus	Gender	EmailAddress	AnnualIncome
14841	MR.	FRANKLIN	PAL	12-07-1911	M	M	franklin30@adventure-works.com	20000

11. Write a query to find customers who have at least two children.

Don't Limit

```

1 • select * from adventureworks.adventureworks_customers_1
2   where TotalChildren >= 2
3
4

```

Result Grid

CustomerKey	Prefix	FirstName	LastName	BirthDate	MaritalStatus	Gender	EmailAddress	AnnualIncome
11000	MR.	JON	YANG	04-08-1966	M	M	jon24@adventure-works.com	90000
11001	MR.	EUGENE	HUANG	5	M	M	eugene10@adventure-works.com	60000
11002	MR.	RUBEN	TORRES	08-12-1965	M	M	ruben35@adventure-works.com	60000
11004	MRS.	ELIZABETH	JOHNSON	08-08-1968	S	F	elizabeth5@adventure-works.com	80000
11007	MR.	MARCO	MEHTA	05-09-1964	M	M	marco14@adventure-works.com	60000
11008	MRS.	ROBIN	VERHOFF	07-07-1964	S	F	rob4@adventure-works.com	60000
11011	MR.	CURTIS	LU	11-04-1963	M	M	curtis9@adventure-works.com	60000

Form Editor

12. Create a query that calculates the sum of annual income for customers with a specific gender (e.g., Male).

Don't Limit

```

1 • select sum(AnnualIncome) TotalAnnualIncome from adventureworks.adventureworks_customers_1
2   where Gender = 'M'
3
4

```

Result Grid

TotalAnnualIncome
522500000

Form Editor

13. Write a query to find customers with an annual income between \$50,000 and \$100,000.

Don't Limit

```

1 • select * from adventureworks.adventureworks_customers_1
2   where AnnualIncome between '50000' and '100000'
3
4

```

Result Grid

CustomerKey	Prefix	FirstName	LastName	BirthDate	MaritalStatus	Gender	EmailAddress	AnnualIncome
1	MR.	EUGENE	HUANG	5	M	M	eugene10@adventure-works.com	60000
2	MR.	RUBEN	TORRES	08-12-1965	M	M	ruben35@adventure-works.com	60000
3	MS.	CHRISTY	ZHU	2	S	F	christy12@adventure-works.com	70000
4	MRS.	ELIZABETH	JOHNSON	08-08-1968	S	F	elizabeth5@adventure-works.com	80000
5	MR.	TIMOTHY	PHILLIPS	08-05-1965	M	M	timlin1@adventure-works.com	70000

Form Editor

14. Create a query that extracts the first three characters of the first name for each customer.

```

1 • select substring(Firstname,1,3) First3Charater, Firstname from
2   adventureworks.adventureworks_customers_1
3
4
5

```

	First3Charater	Firstname
▶	JON	JON
	EUG	EUGENE
	RUB	RUBEN
	CHR	CHRISTY
	ELI	ELIZABETH
	JUL	JULIO
	MAR	MARCO
	ROB	ROBIN

15. Write a query to find customers with a specific prefix (e.g., Dr.) and a specific education level (e.g., Master's degree).

```

1 • select * from
2   adventureworks.adventureworks_customers_1
3   where Prefix = 'Mr.'
4   and EducationLevel = 'Bachelors'
5

```

	CustomerKey	Prefix	FirstName	LastName	BirthDate	MaritalStatus	Gender	EmailAddress	AnnualIncome
▶	11000	MR.	JON	YANG	04-08-1966	M	M	jon24@adventure-works.com	90000
	11001	MR.	EUGENE	HUANG	5	M	M	eugene10@adventure-works.com	60000
	11002	MR.	RUBEN	TORRES	08-12-1965	M	M	ruben35@adventure-works.com	60000
	11005	MR.	JULIO	RUIZ	08-05-1965	M	M	julio1@adventure-works.com	70000
	11007	MR.	MARCO	MEHTA	05-09-1964	M	M	marco14@adventure-works.com	60000
	11009	MR.	SHANNON	CARLSON	04-01-1964	M	M	shannon38@adventure-works.com	70000
	11011	MR.	CURTIS	LU	11-04-1963	M	M	curtis9@adventure-works.com	60000

16. Create a query to count the number of customers in each gender category.

```

1 • select count(*) TotalCustomer, gender from
2   adventureworks.adventureworks_customers_1
3   group by gender
4
5

```

	count(*)	gender
▶	9126	M
	8892	F
	130	NA

17. Write a query that updates the prefix of all customers with CustomerKey greater than 10000 to 'Ms.'.

```

1 • update
2   adventureworks.adventureworks_customers_1
3   set Prefix = 'Ms'
4   where CustomerKey > 10000
5

```

Output

#	Time	Action	Message
1	12:54:44	update adventureworks.adventureworks_customers_1 set Prefix = 'Ms' where CustomerKe...	18148 row(s) affected Rows matched: 18148

18. Create a query to find the average age of customers with a specific annual income range (e.g., \$75,000 - \$100,000).

```

1 • select sum(floor(datediff(curdate(),newbirthday)/ 365)) / count(*) AveAge from
2   adventureworks.adventureworks_customers_1
3   where annualincome between '75000' and '100000'
4   and length(birthdate) >= 9
5

```

Result Grid

AveAge
62.8848

19. Write a query to find customers who were born on a specific day of the week (e.g., Monday).

```

1 • select * from
2   adventureworks.adventureworks_customers_1
3   where length(birthdate) >= 9
4   and dayname(newbirthday) = 'Monday'

```

Result Grid

CustomerKey	Prefix	FirstName	LastName	BirthDate	MaritalStatus	Gender	EmailAddress	AnnualInc
11011	Ms	CURTIS	LU	11-04-1963	M	M	curtis9@adventure-works.com	60000
11018	Ms	CLARENCE	RAI	10-09-1944	M	M	clarence32@adventure-works.com	30000
11036	Ms	JENNIFER	RUSSELL	12/18/1978	M	F	jennifer93@adventure-works.com	60000
11040	Ms	JESSE	MURPHY	08-01-1977	M	M	jesse15@adventure-works.com	30000
11054	Ms	DEANNA	MUNOZ	03-10-1952	M	F	deanna33@adventure-works.com	40000
11057	Ms	CARL	ANDERSEN	10-12-1953	M	M	carl12@adventure-works.com	70000
11063	Ms	ANGELA	MURPHY	04-07-1975	S	F	angela41@adventure-works.com	40000
11086	Ms	RYAN	BROWN	12/23/1957	M	M	ryan43@adventure-works.com	70000
11098	Ms	MALLORY	RUBIO	05-01-1961	S	F	mallory7@adventure-works.com	60000

20. Create a query that identifies customers who have not provided their email address.

1 • `select * from`
 2 `adventureworks.adventureworks_customers_1`
 3 `where isnull(emailAddress) = true`

Result Grid

CustomerKey	Prefix	FirstName	LastName	BirthDate	MaritalStatus	Gender	EmailAddress	AnnualIncome	TotalChildren	Edu
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

21. Write a query to find customers with an odd-numbered CustomerKey.

1 • `select * from`
 2 `adventureworks.adventureworks_customers_1`
 3 `where mod(customerKey,2) = 1;`

Result Grid

CustomerKey	Prefix	FirstName	LastName	BirthDate	MaritalStatus	Gender	EmailAddress	AnnualIncome
11001	Ms	EUGENE	HUANG	5	M	M	eugene10@adventure-works.com	60000
11003	Ms	CHRISTY	ZHU	2	S	F	christy12@adventure-works.com	70000
11005	Ms	JULIO	RUIZ	08-05-1965	M	M	julio1@adventure-works.com	70000
11007	Ms	MARCO	MEHTA	05-09-1964	M	M	marco14@adventure-works.com	60000
11009	Ms	SHANNON	CARLSON	04-01-1964	M	M	shannon38@adventure-works.com	70000
11011	Ms	CURTIS	LU	11-04-1963	M	M	curtis9@adventure-works.com	60000
11013	Ms	IAN	JENKINS	08-06-1968	M	M	ian47@adventure-works.com	100000
11015	Ms	CHLOE	YOUNG	2	S	F	chloe23@adventure-works.com	30000
11017	Ms	SHANNON	WANG	6	S	F	shannon1@adventure-works.com	20000

22. Create a query to calculate the average annual income of customers with a specific occupation (e.g., Engineer).


```

1 • select (sum(AnnualIncome)/ count(*)) AveAnnualIncome_Management from
2   adventureworks.adventureworks_customers_1
3   where Occupation = 'Management'

```

AveAnnualIncome_Management
92218.5320491531

23. Write a query to find the customer with the highest annual income.

```

1 • select * from
2   adventureworks.adventureworks_customers_1
3   order by AnnualIncome desc limit 1

```

CustomerKey	Prefix	FirstName	LastName	BirthDate	MaritalStatus	Gender	EmailAddress	AnnualIncome	TotalChildren
28880	Ms	FELICIA	MOYER	8	S	F	felicia9@adventure-works.com	170000	4

24. Create a query that sorts customers by their annual income in descending order.

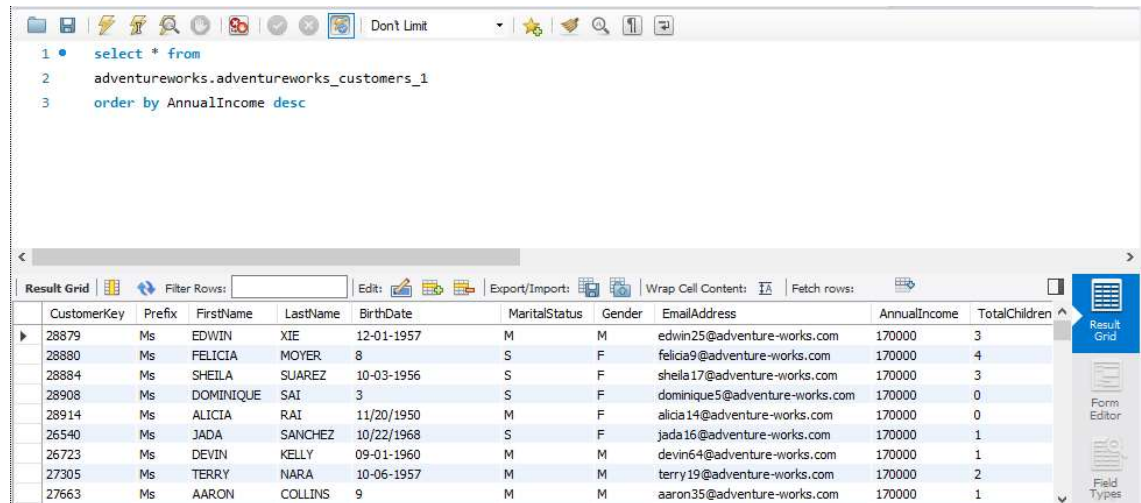
```

1 • select * from
2   adventureworks.adventureworks_customers_1
3   order by AnnualIncome desc

```

CustomerKey	Prefix	FirstName	LastName	BirthDate	MaritalStatus	Gender	EmailAddress	AnnualIncome	TotalChildren
28879	Ms	EDWIN	XIE	12-01-1957	M	M	edwin25@adventure-works.com	170000	3
28880	Ms	FELICIA	MOYER	8	S	F	felicia9@adventure-works.com	170000	4
28884	Ms	SHEILA	SUAREZ	10-03-1956	S	F	shella17@adventure-works.com	170000	3
28908	Ms	DOMINIQUE	SAI	3	S	F	dominique5@adventure-works.com	170000	0
28914	Ms	ALICIA	RAI	11/20/1950	M	F	alicia14@adventure-works.com	170000	0
26540	Ms	JADA	SANCHEZ	10/22/1968	S	F	jada16@adventure-works.com	170000	1
26723	Ms	DEVIN	KELLY	09-01-1960	M	M	devin64@adventure-works.com	170000	1
27305	Ms	TERRY	NARA	10-06-1957	M	M	terry19@adventure-works.com	170000	2
27663	Ms	AARON	COLLINS	9	M	M	aaron35@adventure-works.com	170000	1

25. Write a query to find customers with a specific suffix in their email address (e.g., @gmail.com).



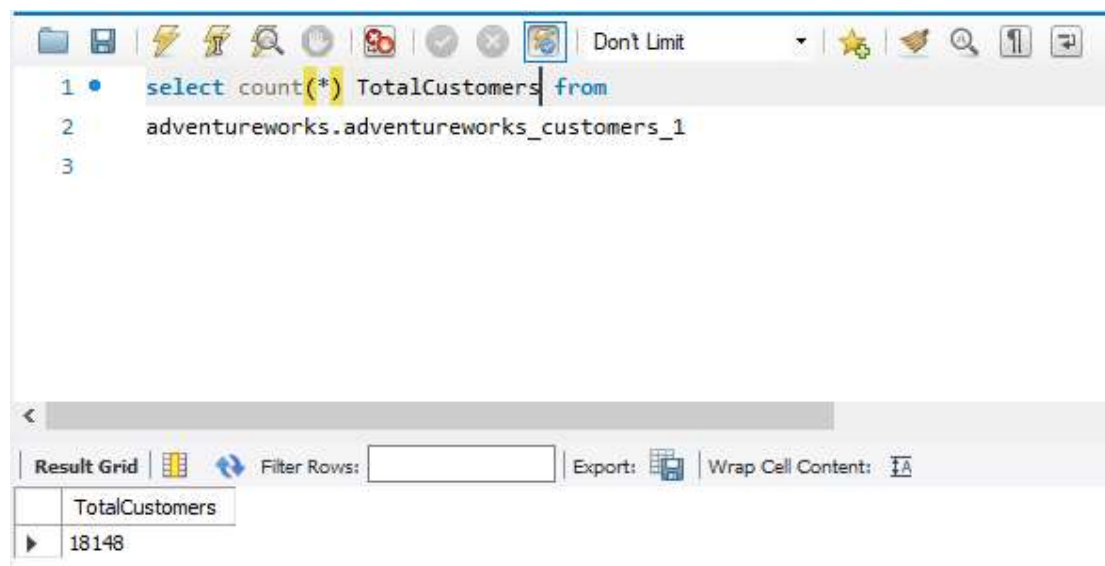
The screenshot shows a SQL query window with the following query:

```
1 • select * from
2   adventureworks.adventureworks_customers_1
3   order by AnnualIncome desc
```

The results are displayed in a grid with the following columns: CustomerKey, Prefix, FirstName, LastName, BirthDate, MaritalStatus, Gender, EmailAddress, AnnualIncome, and TotalChildren. The data is sorted by AnnualIncome in descending order.

CustomerKey	Prefix	FirstName	LastName	BirthDate	MaritalStatus	Gender	EmailAddress	AnnualIncome	TotalChildren
28879	Ms	EDWIN	XIE	12-01-1957	M	M	edwin25@adventure-works.com	170000	3
28880	Ms	FELICIA	MOYER	8	S	F	felia9@adventure-works.com	170000	4
28884	Ms	SHEILA	SUAREZ	10-03-1956	S	F	sheila17@adventure-works.com	170000	3
28908	Ms	DOMINIQUE	SAI	3	S	F	dominique5@adventure-works.com	170000	0
28914	Ms	ALICIA	RAI	11/20/1950	M	F	alicia14@adventure-works.com	170000	0
26540	Ms	JADA	SANCHEZ	10/22/1968	S	F	jada16@adventure-works.com	170000	1
26723	Ms	DEVIN	KELLY	09-01-1960	M	M	devin64@adventure-works.com	170000	1
27305	Ms	TERRY	NARA	10-06-1957	M	M	terry19@adventure-works.com	170000	2
27663	Ms	AARON	COLLINS	9	M	M	aaron35@adventure-works.com	170000	1

26. Create a query to calculate the total number of customers in the dataset.



The screenshot shows a SQL query window with the following query:

```
1 • select count(*) TotalCustomers from
2   adventureworks.adventureworks_customers_1
3
```

The results are displayed in a grid with the following columns: TotalCustomers. The result is 18148.

TotalCustomers
18148

27. Write a query that calculates the number of customers with each marital status within a specific gender group (e.g., Male).

The screenshot shows a SQL query in the Enterprise Manager interface. The query is:

```

1 • select count(*) TotalCustomers, MaritalStatus from
2   adventureworks.adventureworks_customers_1
3   where gender = 'M'
4   group by MaritalStatus
5

```

The results are displayed in a grid below the query editor:

	TotalCustomers	MaritalStatus
▶	9126	M

28. Create a query to find customers whose first name contains a specific letter (e.g., 'a').

The screenshot shows a SQL query in the Enterprise Manager interface. The query is:

```

1 • select * from
2   adventureworks.adventureworks_customers_1
3   where firstname like '%a%'
4
5

```

The results are displayed in a grid below the query editor:

	CustomerKey	Prefix	FirstName	LastName	BirthDate	MaritalStatus	Gender	EmailAddress	AnnualIncome	TotalChildren
▶	11004	Ms	ELIZABETH	JOHNSON	08-08-1968	S	F	elizabeth5@adventure-works.com	80000	5
	11007	Ms	MARCO	MEHTA	05-09-1964	M	M	marco14@adventure-works.com	60000	3
	11009	Ms	SHANNON	CARLSON	04-01-1964	M	M	shannon38@adventure-works.com	70000	0
	11010	Ms	JACQUELYN	SUAREZ	02-06-1964	S	F	jacquelyn20@adventure-works.com	70000	0
	11012	Ms	LAUREN	WALKER	1	M	F	lauren41@adventure-works.com	100000	2
	11013	Ms	IAN	JENKINS	08-06-1968	M	M	ian47@adventure-works.com	100000	2
	11016	Ms	WYATT	HILL	4	M	M	wyatt32@adventure-works.com	30000	0
	11017	Ms	SHANNON	WANG	6	S	F	shannon1@adventure-works.com	20000	4

29. Write a query to count the number of customers with an even-numbered CustomerKey.

The screenshot shows a SQL query in the Enterprise Manager interface. The query is:

```

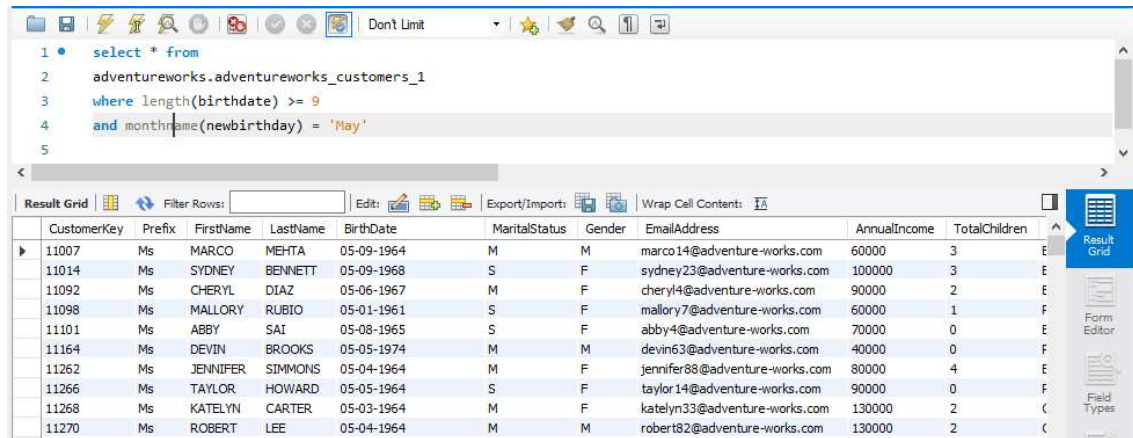
1 • select count(*) TotalCustomers from
2   adventureworks.adventureworks_customers_1
3   where Mod(CustomerKey,2)=0
4
5

```

The results are displayed in a grid below the query editor:

	TotalCustomers
▶	9070

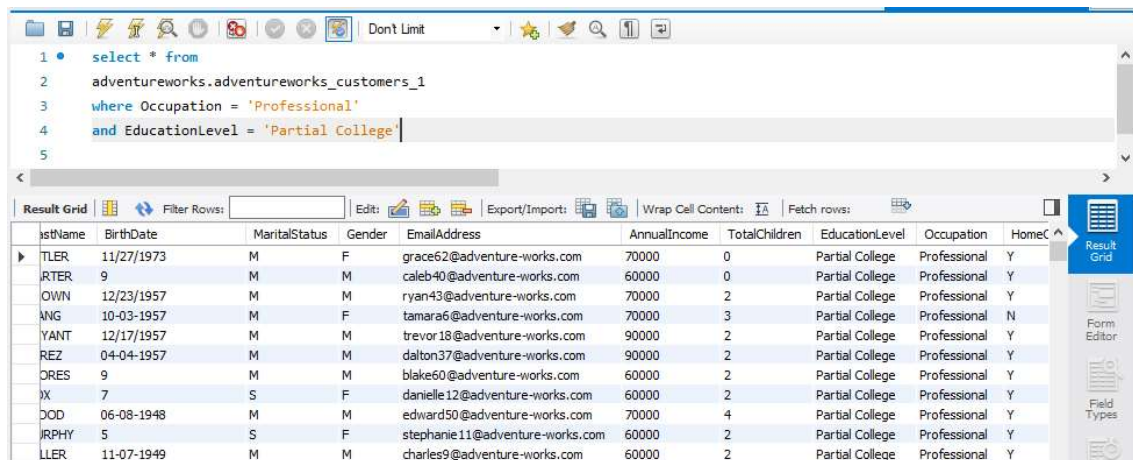
30. Create a query to find customers who were born in a specific month (e.g., May).



The screenshot shows a SQL query in the query editor: `select * from adventureworks.adventureworks_customers_1 where length(birthdate) >= 9 and monthname(newbirthday) = 'May'`. The results grid displays a list of customers born in May.

CustomerKey	Prefix	FirstName	LastName	BirthDate	MaritalStatus	Gender	EmailAddress	AnnualIncome	TotalChildren	EducationLevel	Occupation	HomeC
11007	Ms	MARCO	MEHTA	05-09-1964	M	M	marco14@adventure-works.com	60000	3	Partial College	Professional	Y
11014	Ms	SYDNEY	BENNETT	05-09-1968	S	F	sydney23@adventure-works.com	100000	3	Partial College	Professional	Y
11092	Ms	CHERYL	DIAZ	05-06-1967	M	F	cheryl4@adventure-works.com	90000	2	Partial College	Professional	Y
11098	Ms	MALLORY	RUBIO	05-01-1961	S	F	mallory7@adventure-works.com	60000	1	Partial College	Professional	F
11101	Ms	ABBY	SAI	05-08-1965	S	F	abby4@adventure-works.com	70000	0	Partial College	Professional	F
11164	Ms	DEVIN	BROOKS	05-05-1974	M	M	devin63@adventure-works.com	40000	0	Partial College	Professional	F
11262	Ms	JENNIFER	SIMMONS	05-04-1964	M	F	jennifer88@adventure-works.com	80000	4	Partial College	Professional	F
11266	Ms	TAYLOR	HOWARD	05-05-1964	S	F	taylor14@adventure-works.com	90000	0	Partial College	Professional	F
11268	Ms	KATELYN	CARTER	05-03-1964	M	F	katelyn33@adventure-works.com	130000	2	Partial College	Professional	C
11270	Ms	ROBERT	LEE	05-04-1964	M	M	robert82@adventure-works.com	130000	2	Partial College	Professional	C

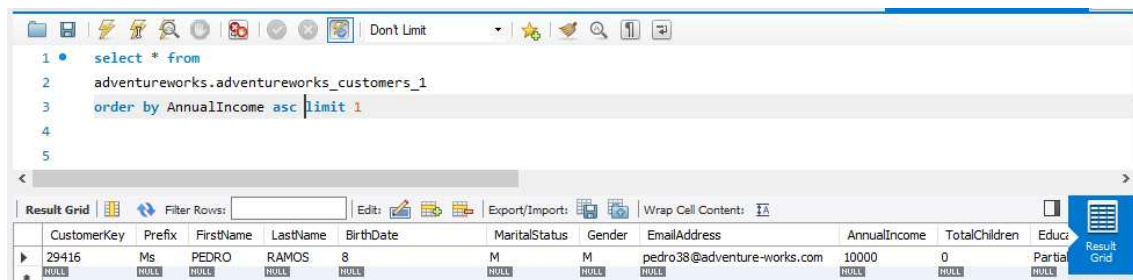
31. Write a query to find customers with a specific occupation and a specific education level.



The screenshot shows a SQL query in the query editor: `select * from adventureworks.adventureworks_customers_1 where Occupation = 'Professional' and EducationLevel = 'Partial College'`. The results grid displays a list of customers who are professionals with a partial college education.

FirstName	BirthDate	MaritalStatus	Gender	EmailAddress	AnnualIncome	TotalChildren	EducationLevel	Occupation	HomeC
TILER	11/27/1973	M	F	grace62@adventure-works.com	70000	0	Partial College	Professional	Y
RTER	9	M	M	caleb40@adventure-works.com	60000	0	Partial College	Professional	Y
OWN	12/23/1957	M	M	ryan43@adventure-works.com	70000	2	Partial College	Professional	Y
ANG	10-03-1957	M	F	tamara6@adventure-works.com	70000	3	Partial College	Professional	N
YANT	12/17/1957	M	M	trevor18@adventure-works.com	90000	2	Partial College	Professional	Y
REZ	04-04-1957	M	M	dalton37@adventure-works.com	90000	2	Partial College	Professional	Y
DRES	9	M	M	blake60@adventure-works.com	60000	2	Partial College	Professional	Y
IX	7	S	F	danielle12@adventure-works.com	60000	2	Partial College	Professional	Y
DOD	06-08-1948	M	M	edward50@adventure-works.com	70000	4	Partial College	Professional	Y
IRPHY	5	S	F	stephanie11@adventure-works.com	60000	2	Partial College	Professional	Y
LLER	11-07-1949	M	M	charles9@adventure-works.com	60000	2	Partial College	Professional	Y

32. Create a query that finds the customer with the lowest annual income.



The screenshot shows a SQL query in the query editor: `select * from adventureworks.adventureworks_customers_1 order by AnnualIncome asc limit 1`. The results grid displays the customer with the lowest annual income.

CustomerKey	Prefix	FirstName	LastName	BirthDate	MaritalStatus	Gender	EmailAddress	AnnualIncome	TotalChildren	EducationLevel	Occupation	HomeC
29416	Ms	PEDRO	RAMOS	8	M	M	pedro38@adventure-works.com	10000	0	Partial College	Professional	Y

33. Write a query to sort customers by their birthdate in descending order.

1 • `select * from`
2 `adventureworks.adventureworks_customers_1`
3 `where length(birthdate) >= 9`
4 `order by newbirthday desc`
5

CustomerKey	Prefix	FirstName	LastName	BirthDate	MaritalStatus	Gender	EmailAddress	AnnualIncome	TotalChildren
17856	Ms	ROGER	RAI	12/26/1980	M	M	roger45@adventure-works.com	20000	0
15821	Ms	LOGAN	ANDERSON	12/26/1980	M	M	logan61@adventure-works.com	30000	0
16340	Ms	SEAN	MITCHELL	12/24/1980	M	M	sean43@adventure-works.com	20000	0
22576	Ms	TONY	XU	12/24/1980	M	M	tony8@adventure-works.com	20000	0
21911	Ms	JOAN	ROSS	12/23/1980	S	F	joan8@adventure-works.com	20000	0
20983	Ms	MEREDITH	VANCE	12/23/1980	S	F	meredith2@adventure-works.com	10000	0
20176	Ms	ANTONIO	ALEXANDER	12-06-1980	M	M	antonio19@adventure-works.com	20000	0
22867	Ms	MAX	RUIZ	12-06-1980	M	M	max3@adventure-works.com	20000	0
12240	Ms	CLAYTON	SHARMA	12-04-1980	M	M	clayton27@adventure-works.com	10000	0
14689	Ms	LLOYD	SAUNDERS	11/26/1980	S	F	lloyd0@adventure-works.com	20000	0
18316	Ms	JUSTIN	KUMAR	11/26/1980	M	M	justin25@adventure-works.com	30000	0
12244	Ms	AMY	HUANG	11/22/1980	M	F	amy13@adventure-works.com	20000	0
12022	Ms	JOSE	WRIGHT	11/22/1980	M	M	jose56@adventure-works.com	40000	0

34. Create a query that counts the number of customers with each occupation within a specific annual income range (e.g., \$50,000 - \$75,000).

1 • `select count(*) TotalCustomer, occupation from`
2 `adventureworks.adventureworks_customers_1`
3 `where annualincome between '50000' and '75000'`
4 `group by occupation`
5

TotalCustomer	occupation
2917	Professional
2161	Skilled Manual
968	Management

35. Write a query to find customers whose last name starts with a specific letter (e.g., 'S').

1 • `select * from`
2 `adventureworks.adventureworks_customers_1`
3 `where lastname like 'S%'`
4
5

CustomerKey	Prefix	FirstName	LastName	BirthDate	MaritalStatus	Gender	EmailAddress	AnnualIncome	TotalChildren
11010	Ms	JACQUELYN	SUAREZ	02-06-1964	S	F	jacquelyn20@adventure-works.com	70000	0
11026	Ms	HAROLD	SAI	04-03-1946	M	M	harold3@adventure-works.com	30000	2
11032	Ms	DENISE	STONE	06-11-1947	M	F	denise10@adventure-works.com	20000	4
11042	Ms	MEGAN	SANCHEZ	6	M	F	megan28@adventure-works.com	70000	0
11043	Ms	NATHAN	SIMMONS	2	M	M	nathan11@adventure-works.com	60000	0
11071	Ms	LINDA	SERRANO	6	S	F	linda31@adventure-works.com	80000	2
11101	Ms	ABBY	SAI	05-08-1965	S	F	abby4@adventure-works.com	70000	0
11104	Ms	EDGAR	SARA	03-11-1964	M	M	edgar11@adventure-works.com	70000	0
11121	Ms	ORLANDO	SUAREZ	11/18/1960	M	M	orlando19@adventure-works.com	70000	5
11150	Ms	RUSSELL	SHEN	3	M	M	russell6@adventure-works.com	40000	2
11198	Ms	BROOKE	SANDERS	11/26/1946	S	F	brooke3@adventure-works.com	70000	4
11229	Ms	ADRIAN	STEWART	12-03-1951	M	M	adrian21@adventure-works.com	70000	4
11235	Ms	ANGEL	STEWART	02-08-1952	M	M	angel24@adventure-works.com	70000	4

36. Create a query to calculate the total annual income of customers with a specific marital status (e.g., Married).

The screenshot shows a SQL query window with the following code:

```
1 • select sum(AnnualIncome) TotalIncome from
2   adventureworks.adventureworks_customers_1
3   where MaritalStatus = 'M'
4
5
```

Below the query window, the 'Result Grid' is displayed with the following data:

TotalIncome
804560000

37. Write a query that updates the first name of a specific customer to 'Jane'.

The screenshot shows a SQL query window with the following code:

```
1 • update
2   adventureworks.adventureworks_customers_1
3   set Firstname = 'Jane'
4   where CustomerKey = '11000'
5
```

Below the query window, the 'Output' pane shows the 'Action Output' for the update operation:

#	Time	Action	Message
1	16:59:38	update adventureworks.adventureworks_customers_1 set Firstname = 'Jane' where CustomerKey = '11000'	1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0

38. Create a query to find customers who were born before a specific year (e.g., 1990).

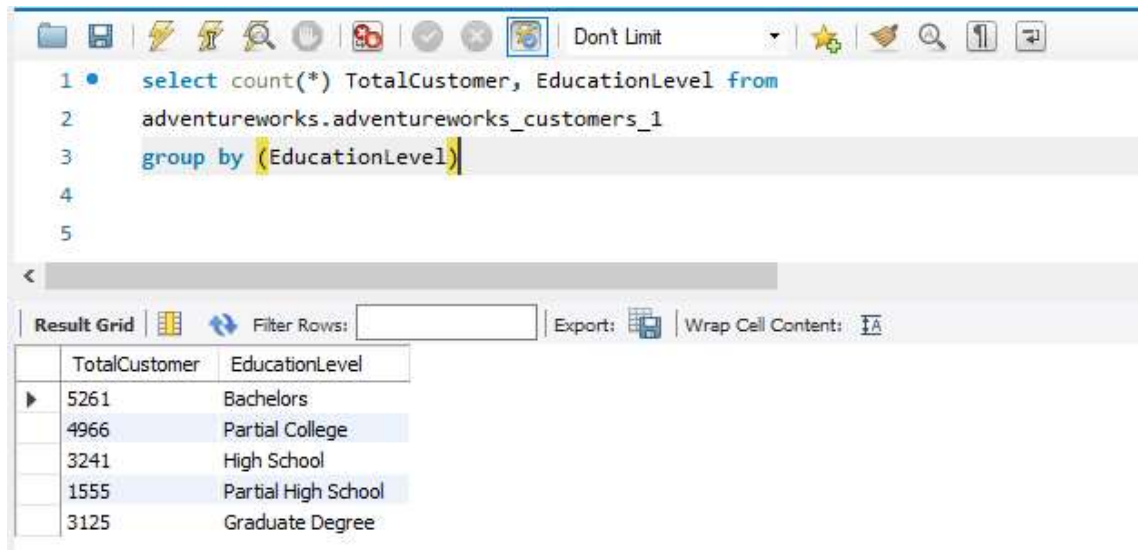
The screenshot shows a SQL query window with the following code:

```
1 • select * from
2   adventureworks.adventureworks_customers_1
3   where year(newbirthday) < '1990'
4
5
```

Below the query window, the 'Result Grid' is displayed with the following data:

CustomerKey	Prefix	FirstName	LastName	BirthDate	MaritalStatus	Gender	EmailAddress	AnnualIncome	TotalChildren
11000	Ms	Jane	YANG	04-08-1966	M	M	jon24@adventure-works.com	90000	2
11002	Ms	RUBEN	TORRES	08-12-1965	M	M	ruben35@adventure-works.com	60000	3
11004	Ms	ELIZABETH	JOHNSON	08-08-1968	S	F	elizabeth5@adventure-works.com	80000	5
11005	Ms	JULIO	RUIZ	08-05-1965	M	M	julio1@adventure-works.com	70000	0
11007	Ms	MARCO	MEHTA	05-09-1964	M	M	marco14@adventure-works.com	60000	3
11008	Ms	ROBIN	VERHOFF	07-07-1964	S	F	rob4@adventure-works.com	60000	4
11009	Ms	SHANNON	CARLSON	04-01-1964	M	M	shannon38@adventure-works.com	70000	0
11010	Ms	JACQUELYN	SUAREZ	02-06-1964	S	F	jacquelyn20@adventure-works.com	70000	0

39. Write a query to calculate the number of customers in each education level category.



The screenshot shows a SQL query window with the following text:

```

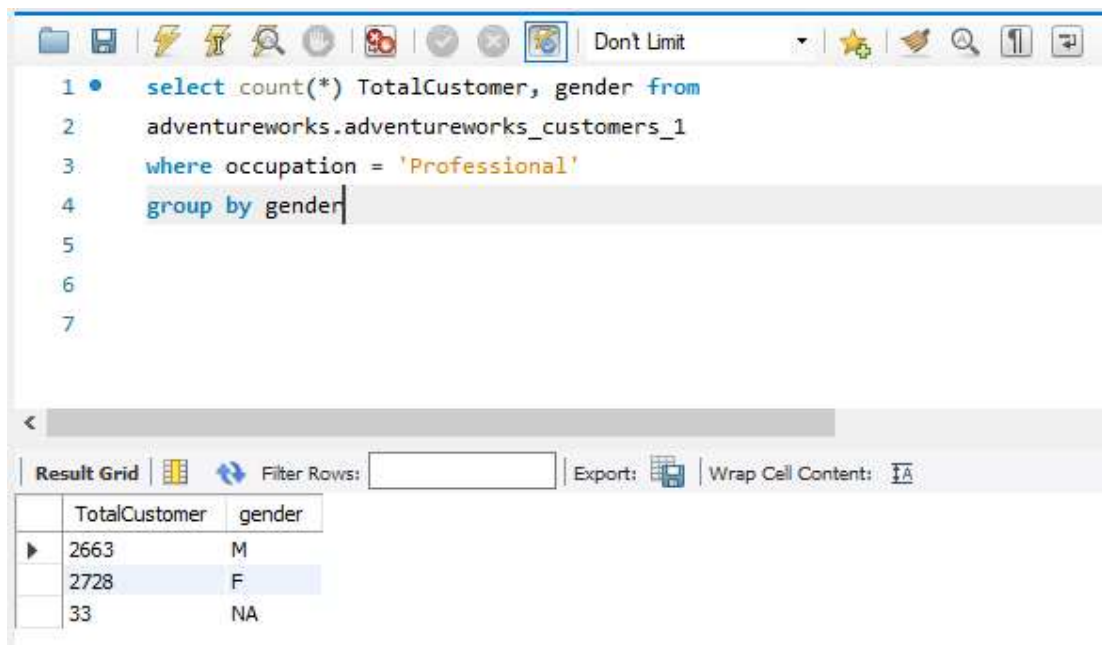
1 • select count(*) TotalCustomer, EducationLevel from
2   adventureworks.adventureworks_customers_1
3   group by (EducationLevel)
4
5

```

Below the query window is a 'Result Grid' with the following data:

	TotalCustomer	EducationLevel
▶	5261	Bachelors
	4966	Partial College
	3241	High School
	1555	Partial High School
	3125	Graduate Degree

40. Create a query that counts the number of customers with each gender within a specific occupation (e.g., Manager).



The screenshot shows a SQL query window with the following text:

```

1 • select count(*) TotalCustomer, gender from
2   adventureworks.adventureworks_customers_1
3   where occupation = 'Professional'
4   group by gender
5
6
7

```

Below the query window is a 'Result Grid' with the following data:

	TotalCustomer	gender
▶	2663	M
	2728	F
	33	NA

41. Write a query to find customers with a specific first name and last name combination (e.g., John Smith).

1 • `select * from`
 2 `adventureworks.adventureworks_customers_1`
 3 `where firstName = 'Jane'`
 4 `and LastName = 'Yang'`
 5
 6
 7
 8

Result Grid

CustomerKey	Prefix	FirstName	LastName	BirthDate	MaritalStatus	Gender	EmailAddress	AnnualIncome
11000	Ms	Jane	YANG	04-08-1966	M	M	jon24@adventure-works.com	90000

42. Create a query to identify customers who have provided their email address.

1 • `select * from`
 2 `adventureworks.adventureworks_customers_1`
 3 `where isnull(EmailAddress) = False`
 4
 5
 6
 7
 8

Result Grid

CustomerKey	Prefix	FirstName	LastName	BirthDate	MaritalStatus	Gender	EmailAddress	AnnualIncome	TotalChildren
11000	Ms	Jane	YANG	04-08-1966	M	M	jon24@adventure-works.com	90000	2
11001	Ms	EUGENE	HUANG	5	M	M	eugene10@adventure-works.com	60000	3
11002	Ms	RUBEN	TORRES	08-12-1965	M	M	ruben35@adventure-works.com	60000	3

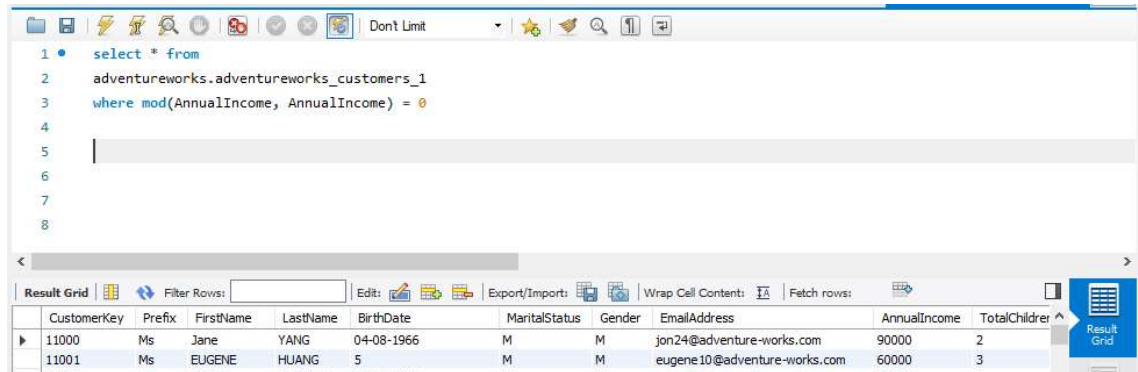
43. Write a query to calculate the average annual income of customers with a specific marital status and gender combination (e.g., Married and Female).

1 • `select sum(AnnualIncome)/ count(*) from`
 2 `adventureworks.adventureworks_customers_1`
 3 `where gender = 'M' and maritalstatus = 'M'`
 4
 5
 6
 7
 8

Result Grid

sum(AnnualIncome)/ count(*)
57253.99956169187

44. Create a query to find customers with an annual income that is a multiple of 10,000.



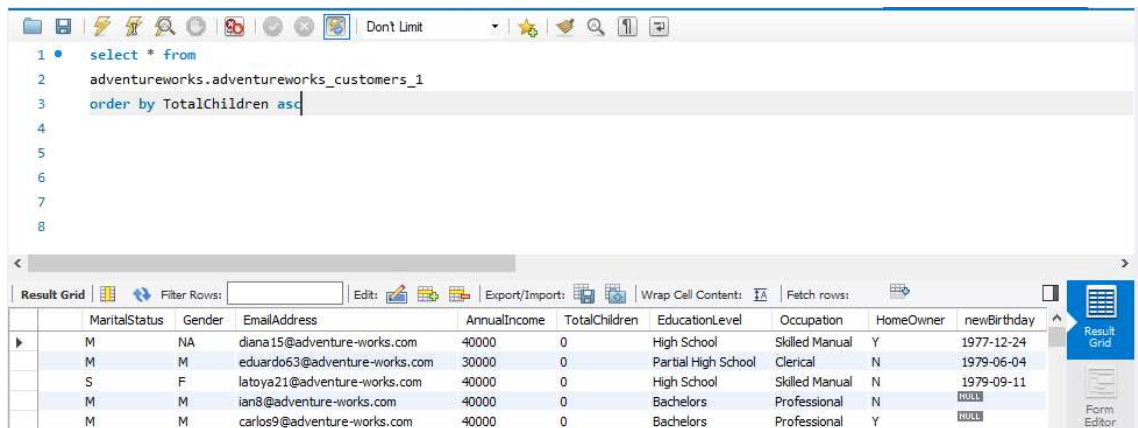
The screenshot shows a SQL query window with the following query:

```
1 select * from
2 adventureworks.adventureworks_customers_1
3 where mod(AnnualIncome, 10000) = 0
4
5
6
7
8
```

The results grid displays the following data:

CustomerKey	Prefix	FirstName	LastName	BirthDate	MaritalStatus	Gender	EmailAddress	AnnualIncome	TotalChildren
11000	Ms	Jane	YANG	04-08-1966	M	M	jon24@adventure-works.com	90000	2
11001	Ms	EUGENE	HUANG	5	M	M	eugene10@adventure-works.com	60000	3

45. Write a query to sort customers by their total number of children in ascending order.



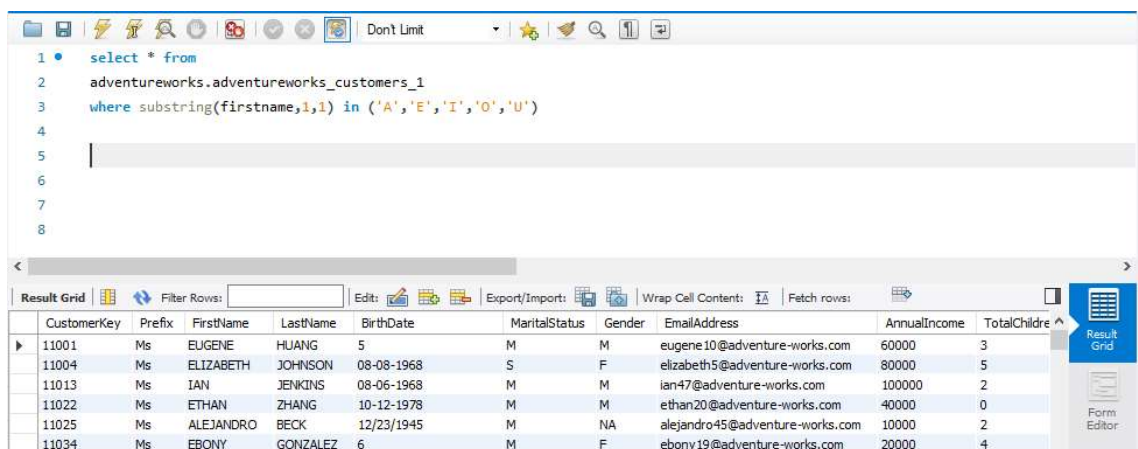
The screenshot shows a SQL query window with the following query:

```
1 select * from
2 adventureworks.adventureworks_customers_1
3 order by TotalChildren asc
4
5
6
7
8
```

The results grid displays the following data:

MaritalStatus	Gender	EmailAddress	AnnualIncome	TotalChildren	EducationLevel	Occupation	HomeOwner	newBirthDay
M	NA	diana15@adventure-works.com	40000	0	High School	Skilled Manual	Y	1977-12-24
M	M	eduardo63@adventure-works.com	30000	0	Partial High School	Clerical	N	1979-06-04
S	F	latoya21@adventure-works.com	40000	0	High School	Skilled Manual	N	1979-09-11
M	M	ian8@adventure-works.com	40000	0	Bachelors	Professional	N	NULL
M	M	carlos9@adventure-works.com	40000	0	Bachelors	Professional	Y	NULL

46. Create a query to find customers whose first name starts with a vowel.



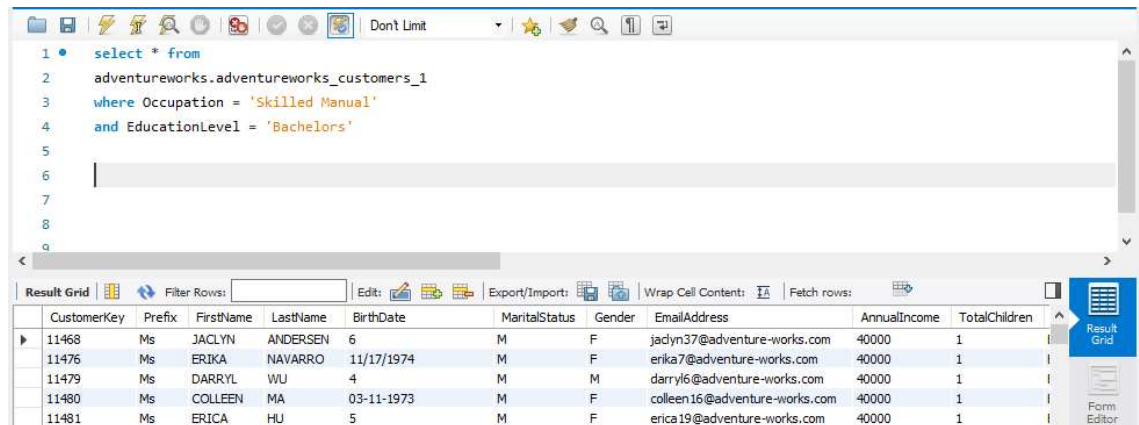
The screenshot shows a SQL query window with the following query:

```
1 select * from
2 adventureworks.adventureworks_customers_1
3 where substring(firstname,1,1) in ('A','E','I','O','U')
4
5
6
7
8
```

The results grid displays the following data:

CustomerKey	Prefix	FirstName	LastName	BirthDate	MaritalStatus	Gender	EmailAddress	AnnualIncome	TotalChildren
11001	Ms	EUGENE	HUANG	5	M	M	eugene10@adventure-works.com	60000	3
11004	Ms	ELIZABETH	JOHNSON	08-08-1968	S	F	elizabeth5@adventure-works.com	80000	5
11013	Ms	IAN	JENKINS	08-06-1968	M	M	ian47@adventure-works.com	100000	2
11022	Ms	ETHAN	ZHANG	10-12-1978	M	M	ethan20@adventure-works.com	40000	0
11025	Ms	ALEJANDRO	BECK	12/23/1945	M	NA	alejandro45@adventure-works.com	10000	2
11034	Ms	EBONY	GONZALEZ	6	M	F	ebony19@adventure-works.com	20000	4

47. Write a query to calculate the average age of customers with a specific occupation and education level combination (e.g., Engineer and Bachelor's degree).



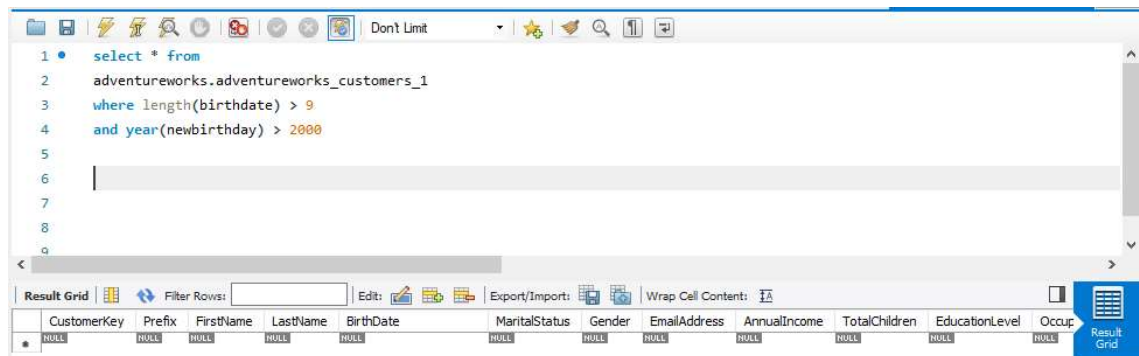
The screenshot shows a SQL query window with the following query:

```
1 select * from
2 adventureworks.adventureworks_customers_1
3 where Occupation = 'Skilled Manual'
4 and EducationLevel = 'Bachelors'
```

The results grid displays the following data:

CustomerKey	Prefix	FirstName	LastName	BirthDate	MaritalStatus	Gender	EmailAddress	AnnualIncome	TotalChildren
11468	Ms	JACLYN	ANDERSEN	6	M	F	jacyln37@adventure-works.com	40000	1
11476	Ms	ERIKA	NAVARRO	11/17/1974	M	F	erika7@adventure-works.com	40000	1
11479	Ms	DARRYL	WU	4	M	M	darryl6@adventure-works.com	40000	1
11480	Ms	COLLEEN	MA	03-11-1973	M	F	colleen16@adventure-works.com	40000	1
11481	Ms	ERICA	HU	5	M	F	erica19@adventure-works.com	40000	1

48. Create a query to find customers who were born after a specific year (e.g., 2000).



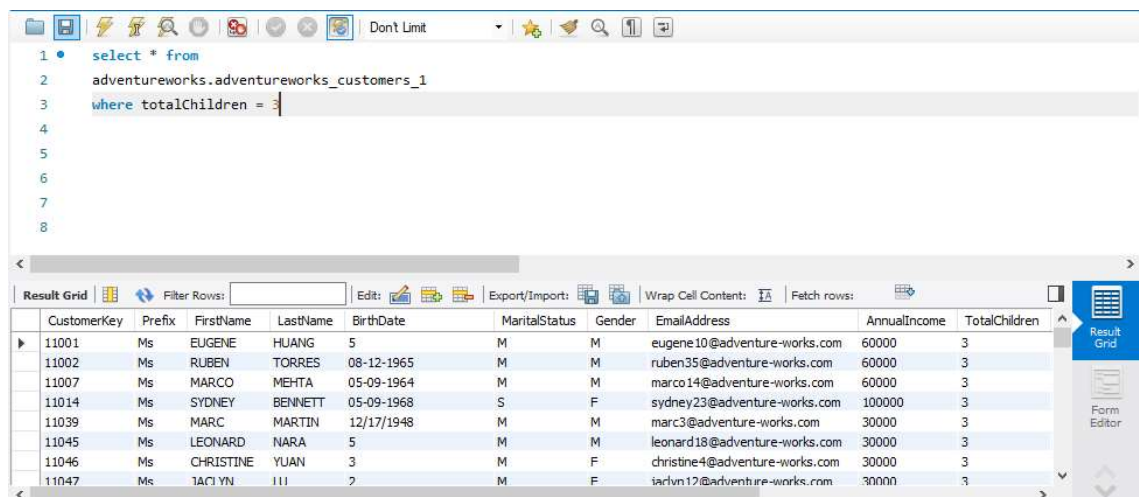
The screenshot shows a SQL query window with the following query:

```
1 select * from
2 adventureworks.adventureworks_customers_1
3 where length(birthdate) > 9
4 and year(newbirthday) > 2000
```

The results grid displays the following data:

CustomerKey	Prefix	FirstName	LastName	BirthDate	MaritalStatus	Gender	EmailAddress	AnnualIncome	TotalChildren	EducationLevel	Occupation
1	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

49. Write a query to identify customers with a specific number of children (e.g., 3).



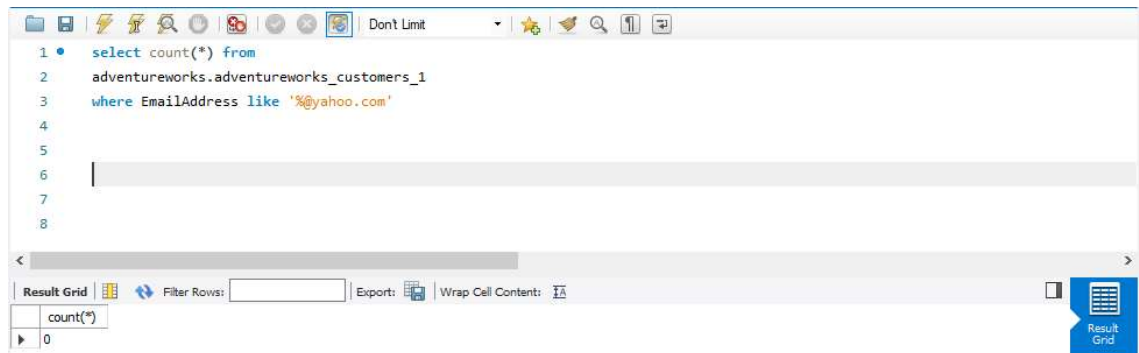
The screenshot shows a SQL query window with the following query:

```
1 select * from
2 adventureworks.adventureworks_customers_1
3 where totalChildren = 3
```

The results grid displays the following data:

CustomerKey	Prefix	FirstName	LastName	BirthDate	MaritalStatus	Gender	EmailAddress	AnnualIncome	TotalChildren
11001	Ms	EUGENE	HUANG	5	M	M	eugene10@adventure-works.com	60000	3
11002	Ms	RUBEN	TORRES	08-12-1965	M	M	ruben35@adventure-works.com	60000	3
11007	Ms	MARCO	MEHTA	05-09-1964	M	M	marco14@adventure-works.com	60000	3
11014	Ms	SYDNEY	BENNETT	05-09-1968	S	F	sydney23@adventure-works.com	100000	3
11039	Ms	MARC	MARTIN	12/17/1948	M	M	marc3@adventure-works.com	30000	3
11045	Ms	LEONARD	NARA	5	M	M	leonard18@adventure-works.com	30000	3
11046	Ms	CHRISTINE	YUAN	3	M	F	christine4@adventure-works.com	30000	3
11047	Ms	IACTYN	ILLI	2	M	F	iaclm17@adventure-works.com	30000	3

50. Create a query to count the number of customers with a specific email domain (e.g., @yahoo.com).



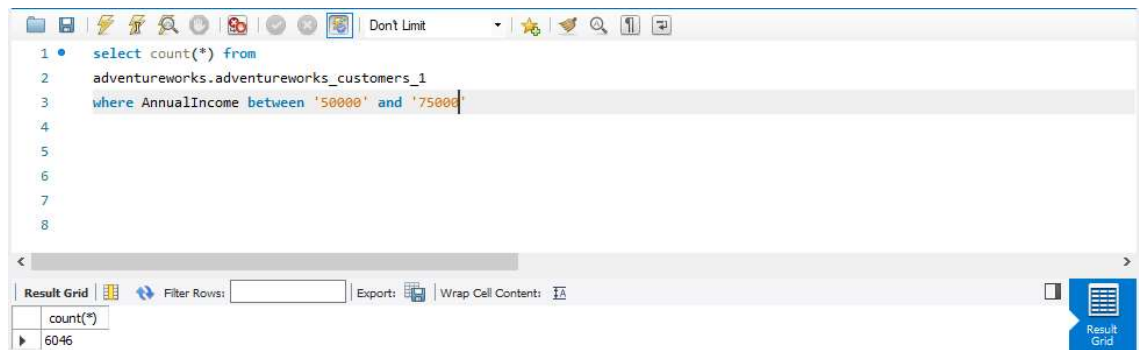
The screenshot shows a SQL query window with the following text:

```
1 • select count(*) from
2   adventureworks.adventureworks_customers_1
3   where EmailAddress like '%@yahoo.com'
4
5
6
7
8
```

The result grid at the bottom shows a single row with the value 0.

count(*)
0

51. Write a query to find customers whose annual income is within a specific range (e.g., \$50,000 - \$75,000).



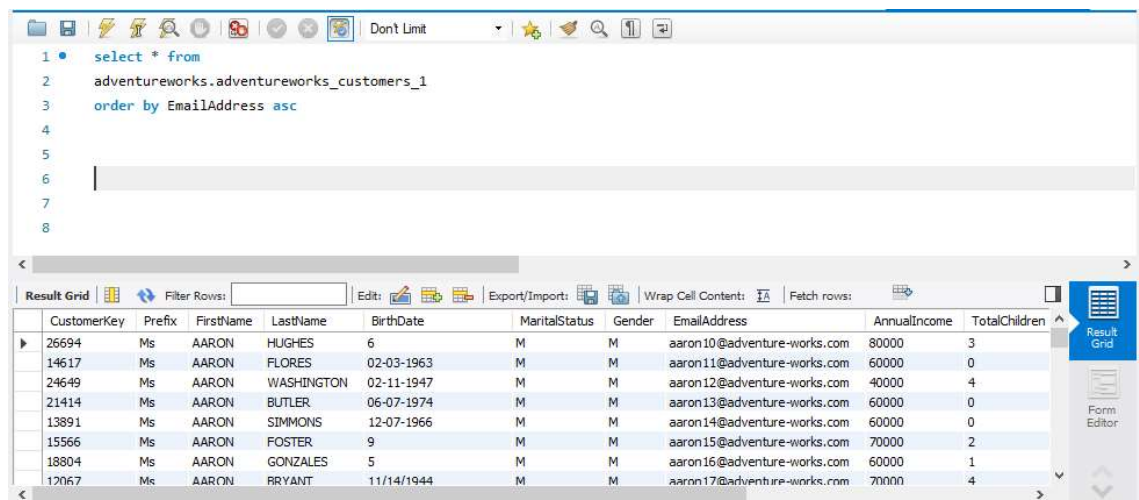
The screenshot shows a SQL query window with the following text:

```
1 • select count(*) from
2   adventureworks.adventureworks_customers_1
3   where AnnualIncome between '50000' and '75000'
4
5
6
7
8
```

The result grid at the bottom shows a single row with the value 6046.

count(*)
6046

52. Create a query to sort customers by their email address in ascending order.



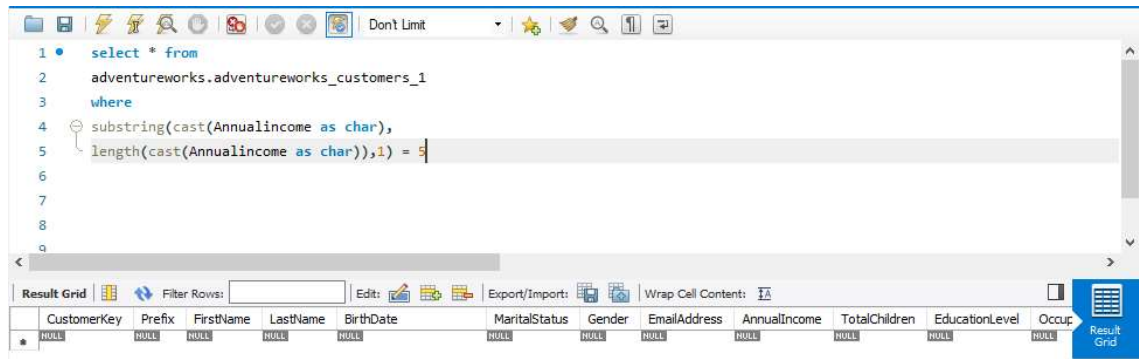
The screenshot shows a SQL query window with the following text:

```
1 • select * from
2   adventureworks.adventureworks_customers_1
3   order by EmailAddress asc
4
5
6
7
8
```

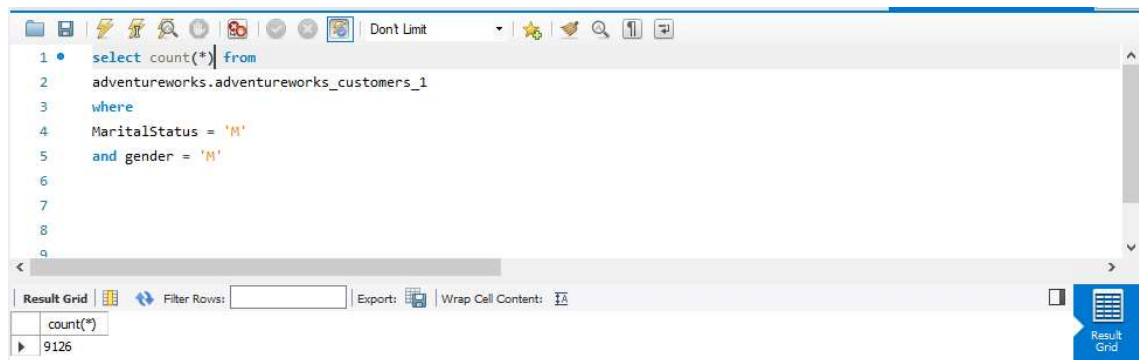
The result grid at the bottom shows a table of customer data sorted by email address.

CustomerKey	Prefix	FirstName	LastName	BirthDate	MaritalStatus	Gender	EmailAddress	AnnualIncome	TotalChildren
26694	Ms	AARON	HUGHES	6	M	M	aaron10@adventure-works.com	80000	3
14617	Ms	AARON	FLORES	02-03-1963	M	M	aaron11@adventure-works.com	60000	0
24649	Ms	AARON	WASHINGTON	02-11-1947	M	M	aaron12@adventure-works.com	40000	4
21414	Ms	AARON	BUTLER	06-07-1974	M	M	aaron13@adventure-works.com	60000	0
13891	Ms	AARON	SIMMONS	12-07-1966	M	M	aaron14@adventure-works.com	60000	0
15566	Ms	AARON	FOSTER	9	M	M	aaron15@adventure-works.com	70000	2
18804	Ms	AARON	GONZALES	5	M	M	aaron16@adventure-works.com	60000	1
17067	Ms	AARON	BRYANT	11/14/1944	M	M	aaron17@adventure-works.com	70000	4

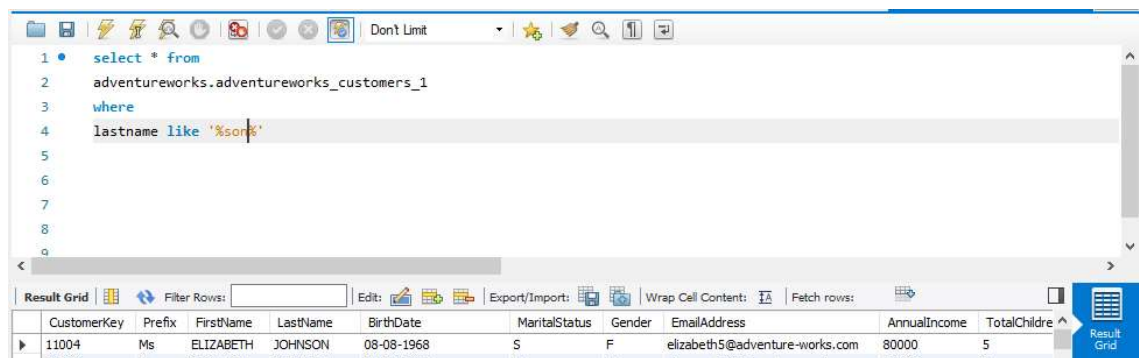
53. Write a query to find customers with an annual income that ends with a specific digit (e.g., 5).



54. Create a query to calculate the total number of customers with a specific marital status and gender combination (e.g., Single and Male).



55. Write a query to find customers whose last name contains a specific substring (e.g., 'son').



56. Create a query to identify customers who have provided their birthdate.


```

1 • select * from
2   adventureworks.adventureworks_customers_1
3   where
4     length(birthdate) > 9
5
6
7
8
9

```

Result Grid

CustomerKey	Prefix	FirstName	LastName	BirthDate	MaritalStatus	Gender	EmailAddress	AnnualIncome	TotalChildren
29477	Ms	NEIL	RUIZ	07-06-1959	M	M	neil3@adventure-works.com	20000	2
29479	Ms	TOMMY	TANG	07-04-1958	M	M	tommy2@adventure-works.com	30000	1

57. Write a query to calculate the average annual income of customers with a specific marital status and occupation combination (e.g., Married and Manager).

```

1 • select (sum(annualincome) / count(*)) AverageIncome from
2   adventureworks.adventureworks_customers_1
3   where
4     MaritalStatus = 'M'
5     and Occupation = 'Manual'
6
7
8
9

```

Result Grid

AverageIncome
16265.664160401002

58. Create a query to sort customers by their occupation in descending order.

1 • `select * from`
 2 `adventureworks.adventureworks_customers_1`
 3 `order by Occupation desc`
 4
 5
 6
 7
 8

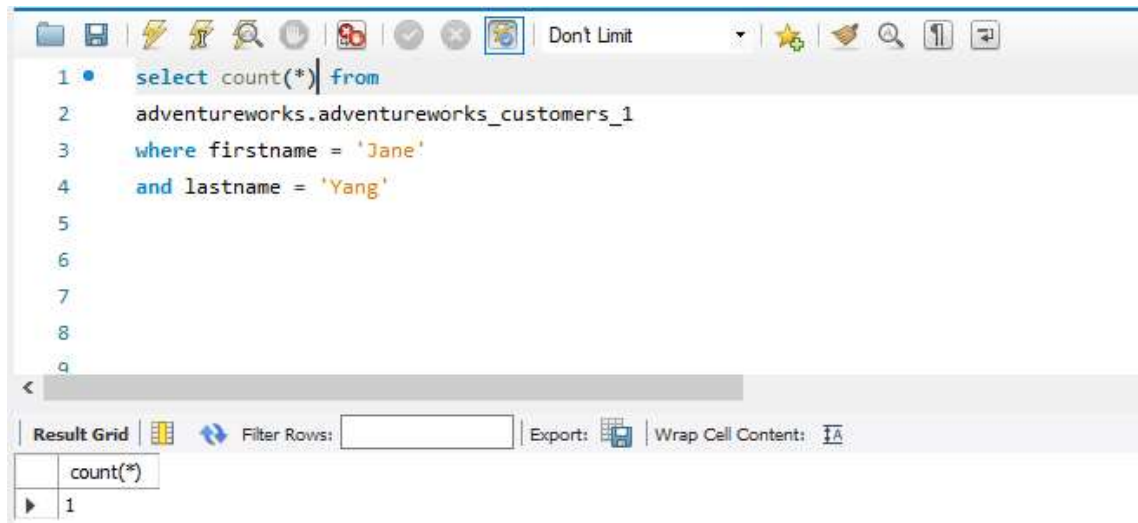
	MaritalStatus	Gender	EmailAddress	AnnualIncome	TotalChildren	EducationLevel	Occupation	HomeOwner
▶	M	M	aidan12@adventure-works.com	80000	3	Bachelors	Skilled Manual	Y
	M	M	matthew7@adventure-works.com	60000	2	Bachelors	Skilled Manual	Y
	M	M	luke14@adventure-works.com	60000	2	Bachelors	Skilled Manual	Y
	S	F	carly4@adventure-works.com	70000	2	Bachelors	Skilled Manual	Y
	S	F	cynthia22@adventure-works.com	70000	2	Bachelors	Skilled Manual	N
	S	F	kaitlyn82@adventure-works.com	70000	2	Bachelors	Skilled Manual	Y
	S	F	emma34@adventure-works.com	70000	2	Bachelors	Skilled Manual	Y
	M	F	lvrla12@adventure-works.com	40000	1	Bachelors	Skilled Manual	Y

59. Write a query to find customers who were born on a specific date (e.g., January 1, 1980).

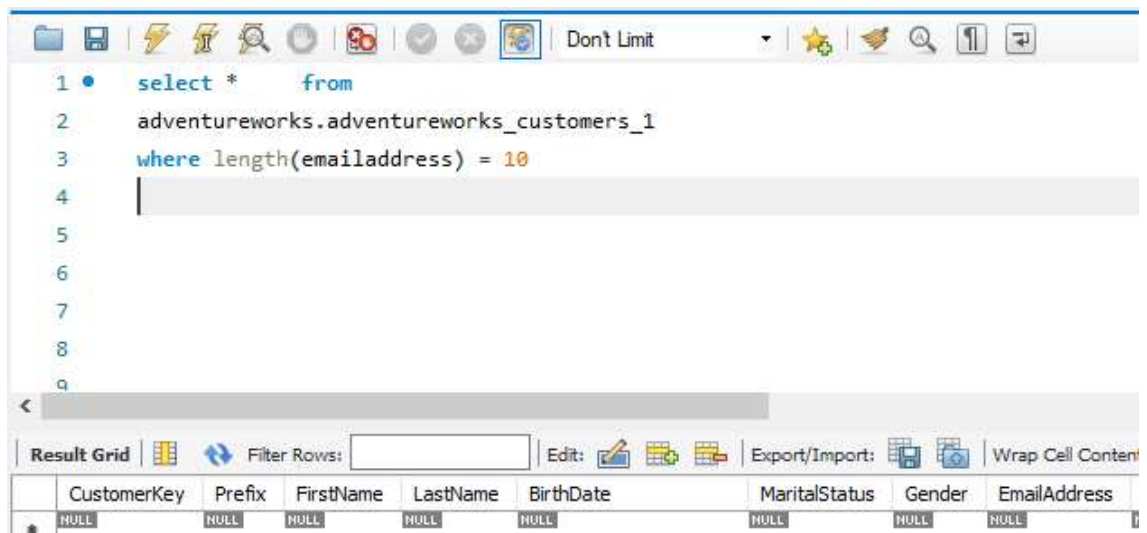
1 • `select * from`
 2 `adventureworks.adventureworks_customers_1`
 3 `where newbirthday = '1968-11-07'`
 4
 5
 6
 7
 8

	CustomerKey	Prefix	FirstName	LastName	BirthDate	MaritalStatus	Gender	EmailAddress	AnnualIncome
▶	21056	Ms	WALTER	MUNOZ	11-07-1968	M	M	walter20@adventure-works.com	40000
	25407	Ms	TONY	ANAND	11-07-1968	M	M	tony24@adventure-works.com	70000
	26604	Ms	ELIZABETH	WEST	11-07-1968	S	F	elizabeth42@adventure-works.com	70000
	28845	Ms	KAITLYN	SIMMONS	11-07-1968	S	F	kaitlyn82@adventure-works.com	70000
	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

60. Create a query to count the number of customers with a specific first name and last name combination (e.g., Mary Johnson).



61. Write a query to find customers with a specific email address length (e.g., 10 characters).



62. Create a query to calculate the total annual income of customers with a specific education level and occupation combination (e.g., Master's degree and Engineer).

The screenshot shows a SQL query window with the following text:

```

1 • select sum(AnnualIncome) TotalIncome from
2   adventureworks.adventureworks_customers_1
3   where occupation = 'Professional'
4   and Educationlevel = 'Bachelors'
5
6
7
8
9

```

Below the query window is the 'Result Grid' tab. It shows a single row of results:

TotalIncome
127300000

63. Write a query to find customers whose last name ends with a specific suffix (e.g., 'Jr.').

The screenshot shows a SQL query window with the following text:

```

1 • select * from
2   adventureworks.adventureworks_customers_1
3   where
4   substring(lastname,length(lastname) -2,2) = 'JR'
5
6
7
8
9

```

Below the query window is the 'Result Grid' tab. It shows a single row of results with all columns set to NULL:

CustomerKey	Prefix	FirstName	LastName	BirthDate	MaritalStatus	Gender	EmailAddress	AnnualIncome	Total
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

64. Create a query to sort customers by their annual income in ascending order.

SQL Query:

```

1 • select * from
2   adventureworks.adventureworks_customers_1
3   order by annualincome asc
4
5
6
7
8
9

```

Result Grid:

BirthDate	MaritalStatus	Gender	EmailAddress	AnnualIncome	TotalChildren	EducationLevel	Occupation
	M	M	dalton78@adventure-works.com	10000	3	High School	Manual
	M	M	shane19@adventure-works.com	10000	4	Partial High School	Manual
	M	M	ruben4@adventure-works.com	10000	4	Partial High School	Manual
1904-1965	S	F	lindsay19@adventure-works.com	10000	5	Partial High School	Manual
	M	M	sergio13@adventure-works.com	10000	5	Partial High School	Manual
1909-1964	M	M	roberto4@adventure-works.com	10000	5	Partial High School	Manual

65. Write a query to identify customers with an even-numbered CustomerKey who were born in a specific month (e.g., June).

SQL Query:

```

1 • select * from
2   adventureworks.adventureworks_customers_1
3   where mod(customerkey,2)=0
4   and monthname(newbirthday)= 'June'
5   order by annualincome asc
6
7
8
9

```

Result Grid:

CustomerKey	Prefix	FirstName	LastName	BirthDate	MaritalStatus	Gender	EmailAddress	AnnualIncome	TotalChildren
12612	Ms	SHANNON	TORRES	06-06-1969	M	M	shannon33@adventure-works.com	10000	2
12828	Ms	CAROL	RUBIO	06-04-1964	S	F	carol12@adventure-works.com	10000	5
14074	Ms	BARBARA	XU	06-07-1949	M	F	barbara36@adventure-works.com	10000	2
15032	Ms	MEREDITH	SUAREZ	06-11-1976	S	F	meredith43@adventure-works.com	10000	1
15040	Ms	GEORGE	LOPEZ	06-10-1977	M	M	george23@adventure-works.com	10000	1
15450	Ms	MARSHALL	BLACK	06-10-1936	M	M	marshall40@adventure-works.com	10000	1
16058	Ms	MARGARET	ZHANG	06-04-1954	M	F	margaret7@adventure-works.com	10000	2

66. Create a query to calculate the average age of customers with a specific first name and marital status combination (e.g., Mark and Single).

```

1 • select sum(floor(datediff(now(), newbirthday)/365)) / count(*) AveAge from
2   adventureworks.adventureworks_customers_1
3   where maritalstatus = 'M'
4   and firstname = 'RAMON'
5   and length(birthday) > 9
6
7
8
9
10

```

Result Grid

AveAge
58.5000

67. Write a query to find customers whose annual income contains a specific number (e.g., 7).

```

1 • select *, cast(annualincome as char) from
2   adventureworks.adventureworks_customers_1
3   where cast(annualincome as char) like '%7%'
4
5
6

```

Result Grid

refid	FirstName	LastName	BirthDate	MaritalStatus	Gender	EmailAddress	AnnualIncome	TotalChildren	EducationLevel
	ROBERT	BAKER	2	M	M	robert58@adventure-works.com	70000	4	Partial College
	CLARENCE	ZHOU	9	M	M	clarence4@adventure-works.com	70000	4	Partial College
	TERRY	NARA	10-06-1957	M	M	terry19@adventure-works.com	170000	2	Bachelors
	DIANE	MORENO	8	M	F	diane11@adventure-works.com	70000	5	High School
	JOSE	GREEN	09-04-1953	M	M	jose49@adventure-works.com	70000	4	High School
	VIRGINIA	LOPEZ	11/17/1975	M	F	virginia19@adventure-works.com	70000	0	Bachelors

68. Create a query to count the number of customers with a specific occupation and education level combination (e.g., Sales Representative and Bachelor's degree).

```

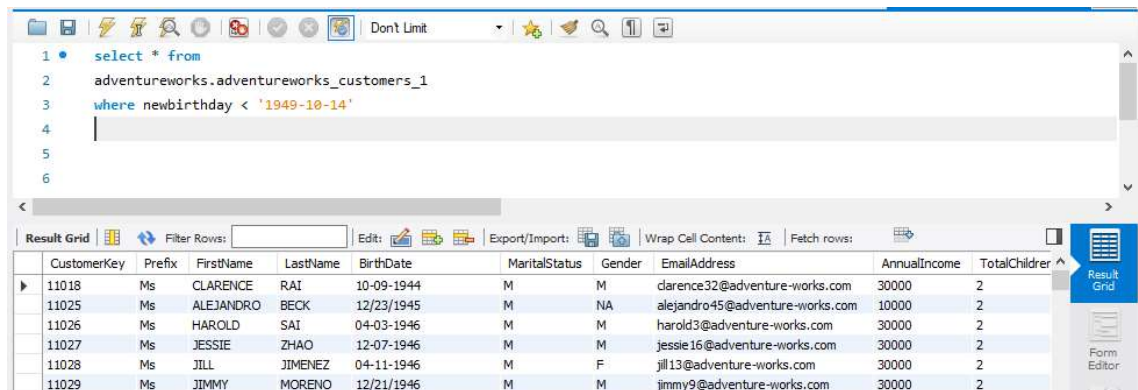
1 • select * from
2   adventureworks.adventureworks_customers_1
3   where occupation = 'Management'
4   and educationlevel = 'High School'
5
6

```

Result Grid

CustomerKey	Prefix	FirstName	LastName	BirthDate	MaritalStatus	Gender	EmailAddress	AnnualIncome	TotalChildren
11437	Ms	ALFREDO	MORENO	12/17/1949	M	M	alfredo7@adventure-works.com	90000	4
11438	Ms	JENNY	NARA	10/14/1949	M	F	jenny39@adventure-works.com	130000	4
11439	Ms	JANET	MUNOZ	5	M	F	janet12@adventure-works.com	90000	4
11450	Ms	BRETT	MEHTA	11-12-1975	M	M	brett13@adventure-works.com	130000	4
11455	Ms	ROSS	SANZ	4	M	M	ross38@adventure-works.com	100000	0
11458	Ms	BIANCA	LIU	04-05-1973	M	F	bianca3@adventure-works.com	100000	0
11462	Ms	LAURA	LIN	1	M	F	laura14@adventure-works.com	110000	0
11463	Ms	ALISHA	BECK	03-12-1972	M	F	alisha45@adventure-works.com	110000	0

69. Write a query to find customers who were born before a specific date (e.g., January 1, 1990).



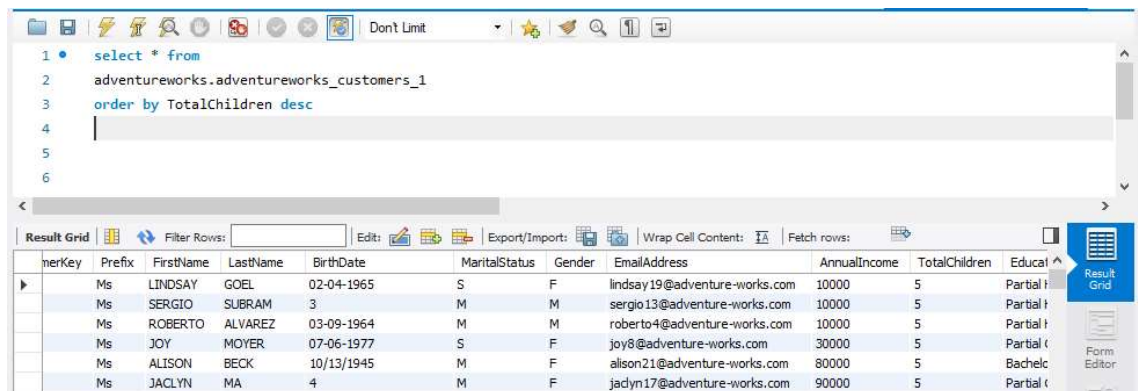
The screenshot shows a SQL query window with the following query:

```
1 select * from
2 adventureworks.adventureworks_customers_1
3 where newbirthday < '1949-10-14'
4
5
6
```

The results are displayed in a grid with the following columns: CustomerKey, Prefix, FirstName, LastName, BirthDate, MaritalStatus, Gender, EmailAddress, AnnualIncome, TotalChildren.

CustomerKey	Prefix	FirstName	LastName	BirthDate	MaritalStatus	Gender	EmailAddress	AnnualIncome	TotalChildren
11018	Ms	CLARENCE	RAI	10-09-1944	M	M	clarence32@adventure-works.com	30000	2
11025	Ms	ALEJANDRO	BECK	12/23/1945	M	NA	alejandro45@adventure-works.com	10000	2
11026	Ms	HAROLD	SAI	04-03-1946	M	M	harold3@adventure-works.com	30000	2
11027	Ms	JESSIE	ZHAO	12-07-1946	M	M	jessie16@adventure-works.com	30000	2
11028	Ms	JILL	JIMENEZ	04-11-1946	M	F	jill13@adventure-works.com	30000	2
11029	Ms	JIMMY	MORENO	12/21/1946	M	M	jimmy9@adventure-works.com	30000	2

70. Create a query to sort customers by their total number of children in descending order.



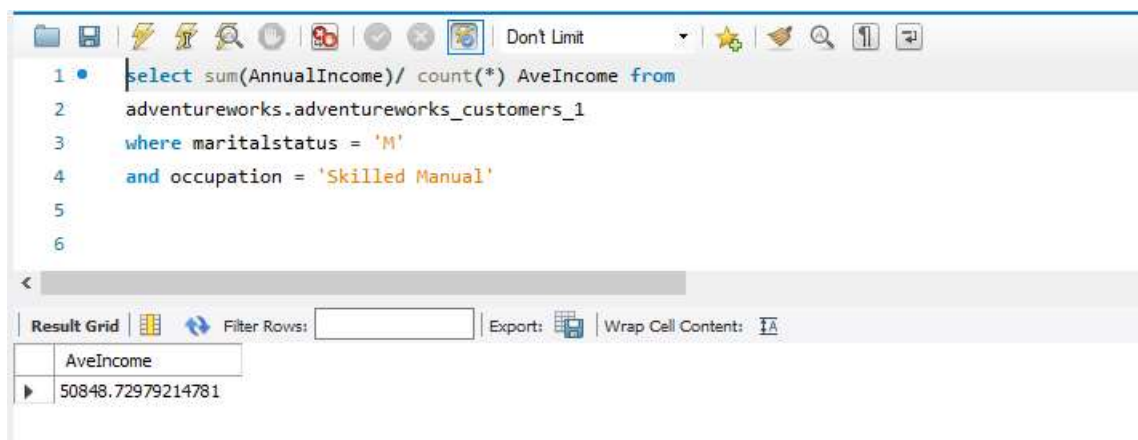
The screenshot shows a SQL query window with the following query:

```
1 select * from
2 adventureworks.adventureworks_customers_1
3 order by TotalChildren desc
4
5
6
```

The results are displayed in a grid with the following columns: CustomerKey, Prefix, FirstName, LastName, BirthDate, MaritalStatus, Gender, EmailAddress, AnnualIncome, TotalChildren, Education.

CustomerKey	Prefix	FirstName	LastName	BirthDate	MaritalStatus	Gender	EmailAddress	AnnualIncome	TotalChildren	Education
11018	Ms	LINDSAY	GOEL	02-04-1965	S	F	lindsay19@adventure-works.com	10000	5	Partial
11025	Ms	SERGIO	SUBRAM	3	M	M	sergio13@adventure-works.com	10000	5	Partial
11026	Ms	ROBERTO	ALVAREZ	03-09-1964	M	M	roberto4@adventure-works.com	10000	5	Partial
11027	Ms	JOY	MOYER	07-06-1977	S	F	joy8@adventure-works.com	30000	5	Partial
11028	Ms	ALISON	BECK	10/13/1945	M	F	alison21@adventure-works.com	80000	5	Bachelor
11029	Ms	JACLYN	MA	4	M	F	jacyln17@adventure-works.com	90000	5	Partial

71. Write a query to calculate the average annual income of customers with a specific marital status and occupation combination (e.g., Married and Sales Representative).



The screenshot shows a SQL query window with the following query:

```
1 select sum(AnnualIncome)/ count(*) AveIncome from
2 adventureworks.adventureworks_customers_1
3 where maritalstatus = 'M'
4 and occupation = 'Skilled Manual'
5
6
```

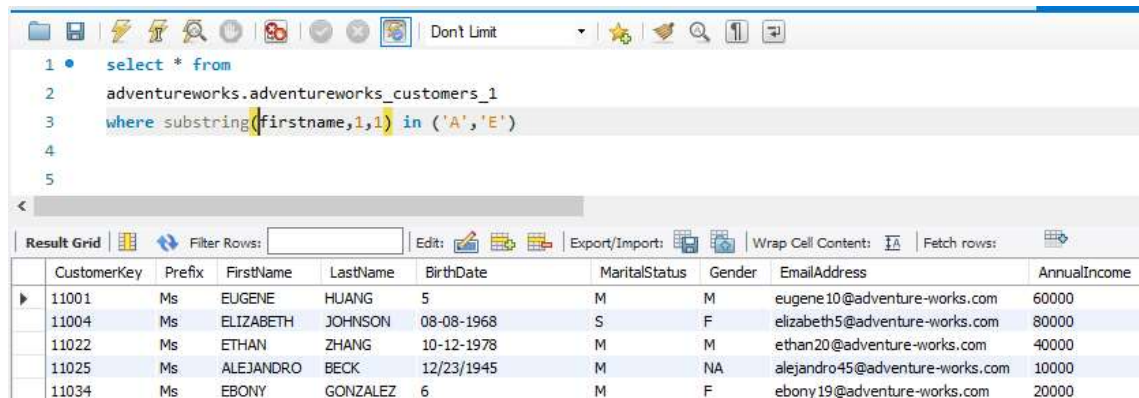
The results are displayed in a grid with the following columns: AveIncome.

AveIncome
50848.72979214781

72. Create a query to identify customers who have made a purchase within a specific date range (e.g., January 1, 2020 - March 31, 2020).

//no purchase date in dataset

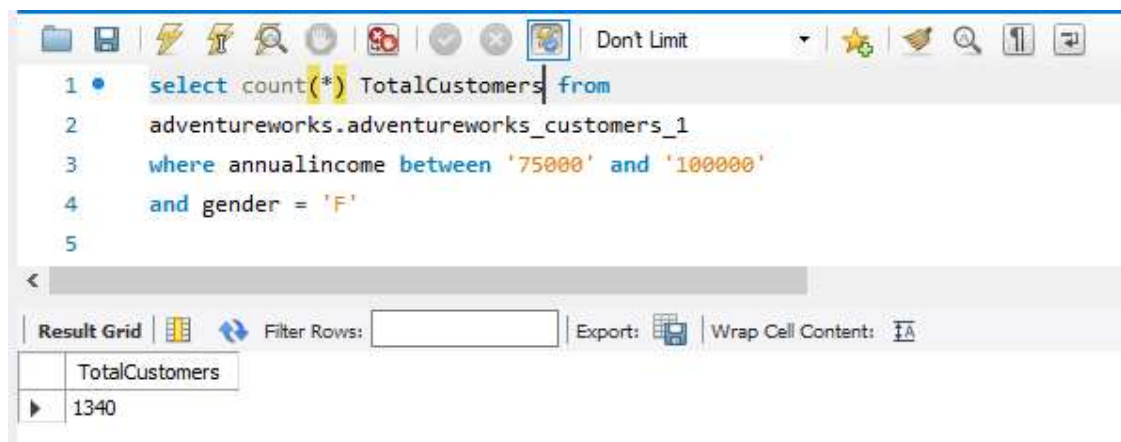
73. Write a query to find customers whose first name contains a specific number of vowels (e.g., 2).



```
1 • select * from
2   adventureworks.adventureworks_customers_1
3   where substring(firstname,1,1) in ('A','E')
4
5
```

	CustomerKey	Prefix	FirstName	LastName	BirthDate	MaritalStatus	Gender	EmailAddress	AnnualIncome
▶	11001	Ms	EUGENE	HUANG	5	M	M	eugene10@adventure-works.com	60000
	11004	Ms	ELIZABETH	JOHNSON	08-08-1968	S	F	elizabeth5@adventure-works.com	80000
	11022	Ms	ETHAN	ZHANG	10-12-1978	M	M	ethan20@adventure-works.com	40000
	11025	Ms	ALEJANDRO	BECK	12/23/1945	M	NA	alejandro45@adventure-works.com	10000
	11034	Ms	EBONY	GONZALEZ	6	M	F	ebony19@adventure-works.com	20000

74. Create a query to count the number of customers with a specific gender and annual income range combination (e.g., Male and \$75,000 - \$100,000).



```
1 • select count(*) TotalCustomers from
2   adventureworks.adventureworks_customers_1
3   where annualincome between '75000' and '100000'
4   and gender = 'F'
5
```

TotalCustomers
▶ 1340

75. Write a query to sort customers by their education level in ascending order.

1 • select * from
2 adventureworks.adventureworks_customers_1
3 order by educationlevel asc
4
5
6

	FirstName	LastName	BirthDate	MaritalStatus	Gender	EmailAddress	AnnualIncome	TotalChildren	EducationLevel	Occupation
▶	SUZANNE	WANG	7	S	F	suzanne2@adventure-works.com	60000	1	Bachelors	Profi
	MATHEW	SERRANO	6	M	M	mathew12@adventure-works.com	60000	2	Bachelors	Profi
	NUAN	WU	06-02-1967	M	M	nuan1@adventure-works.com	90000	3	Bachelors	Profi
	RICHARD	BRADLEY	11/20/1958	M	M	richard57@adventure-works.com	70000	5	Bachelors	Profi
	DIANA	DOMINGUEZ	01-07-1967	S	F	diana12@adventure-works.com	90000	2	Bachelors	Profi
	NANCY	SUBRAM	10/23/1963	M	F	nancy16@adventure-works.com	60000	3	Bachelors	Profi

76. Create a query to calculate the total annual income of customers with a specific marital status and gender combination (e.g., Married and Female).

1 • select * from
2 adventureworks.adventureworks_customers_1
3 where maritalstatus = 'M'
4 and gender = 'M'
5
6

	CustomerKey	Prefix	FirstName	LastName	BirthDate	MaritalStatus	Gender	EmailAddress	AnnualIncome
▶	11000	Ms	Jane	YANG	04-08-1966	M	M	jon24@adventure-works.com	90000
	11001	Ms	EUGENE	HUANG	5	M	M	eugene10@adventure-works.com	60000
	11002	Ms	RUBEN	TORRES	08-12-1965	M	M	ruben35@adventure-works.com	60000
	11005	Ms	JULIO	RUIZ	08-05-1965	M	M	julio1@adventure-works.com	70000
	11007	Ms	MARCO	MEHTA	05-09-1964	M	M	marco14@adventure-works.com	60000
	11009	Ms	SHANNON	CARLSON	04-01-1964	M	M	shannon38@adventure-works.com	70000
	11011	Ms	CURTIS	LIU	11-04-1963	M	M	curtie9@adventure-works.com	60000

77. Write a query to find customers whose last name starts with a specific letter and ends with a specific letter (e.g., starts with 'S' and ends with 'n').

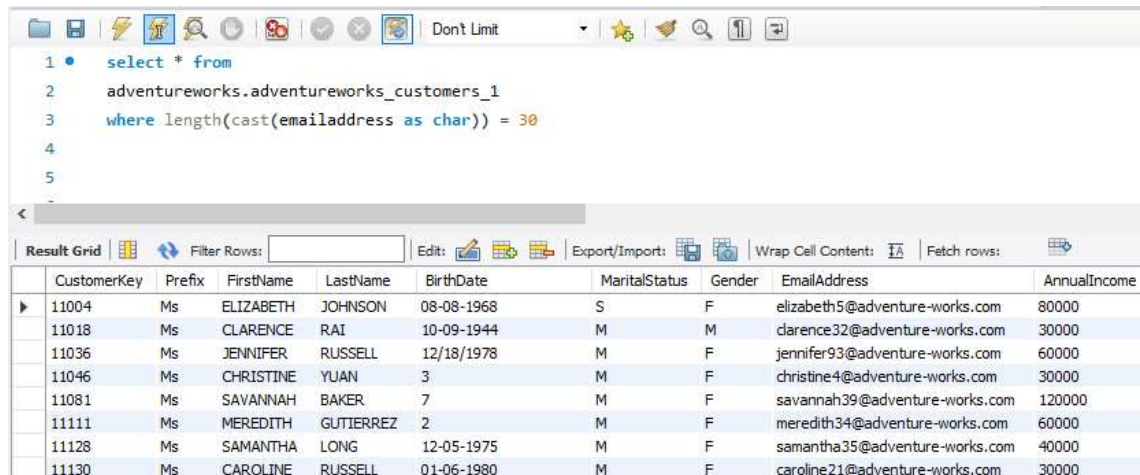
1 • select * from
2 adventureworks.adventureworks_customers_1
3 where substring(lastname,1,1) = 'S'
4 and substring(lastname,length(lastname),1) = 'n'
5
6

	CustomerKey	Prefix	FirstName	LastName	BirthDate	MaritalStatus	Gender	EmailAddress	AnnualIncome
▶	11150	Ms	RUSSELL	SHEN	3	M	M	russell6@adventure-works.com	40000
	11362	Ms	DAMIEN	SHAN	11-11-1977	M	M	damien26@adventure-works.com	10000
	11365	Ms	BRITTNEY	SUN	06-09-1979	S	F	brittney12@adventure-works.com	10000
	11389	Ms	KARL	SHAN	4	M	M	karl11@adventure-works.com	10000
	11397	Ms	LATOYA	SHAN	06-04-1969	S	F	latoya9@adventure-works.com	20000
	11421	Ms	AMY	SUN	7	M	F	amy19@adventure-works.com	110000

78. Create a query to identify customers who have made purchases from a specific store location.

// Dataset does not contain location field

79. Write a query to find customers with a specific number of characters in their email address (e.g., 15 characters).

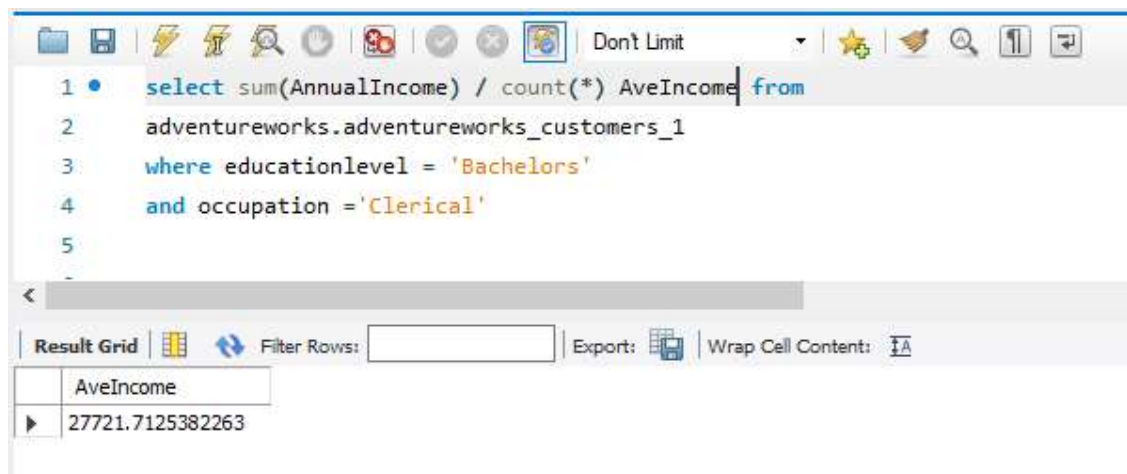


```
1 • select * from
2   adventureworks.adventureworks_customers_1
3   where length(cast(emailaddress as char)) = 30
4
5
```

Result Grid

	CustomerKey	Prefix	FirstName	LastName	BirthDate	MaritalStatus	Gender	EmailAddress	AnnualIncome
▶	11004	Ms	ELIZABETH	JOHNSON	08-08-1968	S	F	elizabeth5@adventure-works.com	80000
	11018	Ms	CLARENCE	RAI	10-09-1944	M	M	clarence32@adventure-works.com	30000
	11036	Ms	JENNIFER	RUSSELL	12/18/1978	M	F	jennifer93@adventure-works.com	60000
	11046	Ms	CHRISTINE	YUAN	3	M	F	christine4@adventure-works.com	30000
	11081	Ms	SAVANNAH	BAKER	7	M	F	savannah39@adventure-works.com	120000
	11111	Ms	MEREDITH	GUTIERREZ	2	M	F	meredith34@adventure-works.com	60000
	11128	Ms	SAMANTHA	LONG	12-05-1975	M	F	samantha35@adventure-works.com	40000
	11130	Ms	CAROLINE	RUSSELL	01-06-1980	M	F	caroline21@adventure-works.com	30000

80. Create a query to calculate the average annual income of customers with a specific occupation and education level combination (e.g., Engineer and Master's degree).



```
1 • select sum(AnnualIncome) / count(*) AveIncome from
2   adventureworks.adventureworks_customers_1
3   where educationlevel = 'Bachelors'
4   and occupation = 'Clerical'
5
```

Result Grid

	AveIncome
▶	27721.7125382263

81. Write a query to sort customers by their annual income in descending order within each occupation category.

1	•	select * from
2		adventureworks.adventureworks_customers_1
3		order by AnnualIncome desc, occupation asc
4		
5		

e	BirthDate	MaritalStatus	Gender	EmailAddress	AnnualIncome	TotalChildren	EducationLevel	Occupation	HomeO
8	10-04-1954	M	M	dominic2@adventure-works.com	100000	5	Bachelors	Professional	Y
7	07-04-1954	M	M	frank19@adventure-works.com	100000	3	High School	Professional	Y
3	04-01-1963	M	M	kenneth17@adventure-works.com	100000	3	High School	Professional	Y
3		M	F	dawn3@adventure-works.com	100000	0	Partial College	Professional	N
3		M	M	kevin25@adventure-works.com	100000	0	Partial College	Professional	Y
8		M	M	gabriel5@adventure-works.com	100000	1	Partial College	Professional	Y

82. Create a query to find customers whose first name contains a specific consonant (e.g., 't').

1	•	select * from
2		adventureworks.adventureworks_customers_1
3		where cast(firstname as char) like '%t%'
4		
5		

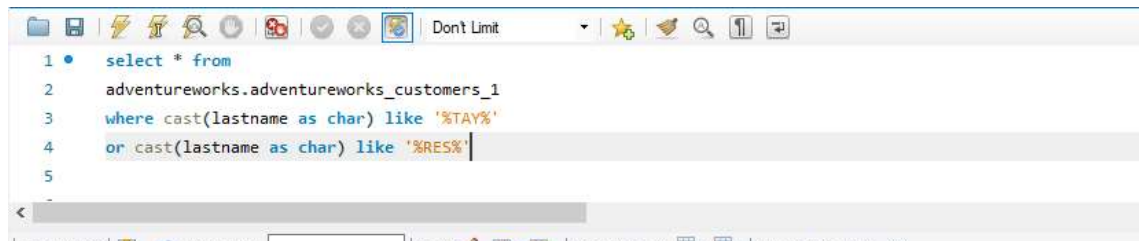
	CustomerKey	Prefix	FirstName	LastName	BirthDate	MaritalStatus	Gender	EmailAddress	AnnualIncome
▶	11003	Ms	CHRISTY	ZHU	2	S	F	christy12@adventure-works.com	70000
	11004	Ms	ELIZABETH	JOHNSON	08-08-1968	S	F	elizabeth5@adventure-works.com	80000
	11011	Ms	CURTIS	LU	11-04-1963	M	M	curtis9@adventure-works.com	60000
	11016	Ms	WYATT	HILL	4	M	M	wyatt32@adventure-works.com	30000
	11021	Ms	DESTINY	WILSON	09-03-1978	S	F	destiny7@adventure-works.com	40000
	11022	Ms	ETHAN	ZHANG	10-12-1978	M	M	ethan20@adventure-works.com	40000

83. Write a query to calculate the total number of customers with a specific marital status and annual income range combination (e.g., Single and \$50,000 - \$75,000).

1	•	select * from
2		adventureworks.adventureworks_customers_1
3		where annualincome between '50000' and '75000'
4		and maritalstatus = 'M'
5		

	CustomerKey	Prefix	FirstName	LastName	BirthDate	MaritalStatus	Gender	EmailAddress	AnnualIncome
▶	11001	Ms	EUGENE	HUANG	5	M	M	eugene10@adventure-works.com	60000
	11002	Ms	RUBEN	TORRES	08-12-1965	M	M	ruben35@adventure-works.com	60000
	11005	Ms	JULIO	RUIZ	08-05-1965	M	M	julio1@adventure-works.com	70000
	11007	Ms	MARCO	MEHTA	05-09-1964	M	M	marco14@adventure-works.com	60000
	11009	Ms	SHANNON	CARLSON	04-01-1964	M	M	shannon38@adventure-works.com	70000
	11011	Ms	CURTIS	LU	11-04-1963	M	M	curtis9@adventure-works.com	60000
	11024	Ms	RUSSELL	XIE	9	M	M	russell7@adventure-works.com	60000
	11036	Ms	JENNIFER	RUSSELL	12/18/1978	M	F	jennifer93@adventure-works.com	60000

84. Create a query to find customers whose last name contains a specific number of syllables (e.g., 2 syllables).



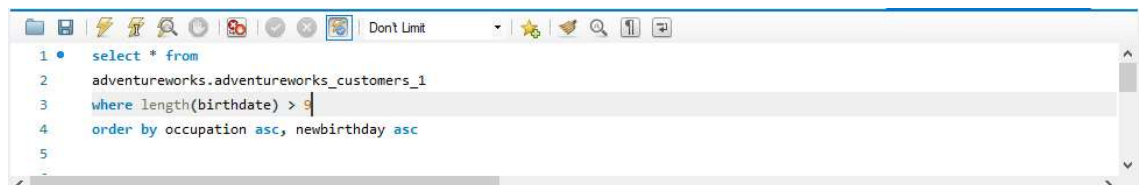
```

1 • select * from
2   adventureworks.adventureworks_customers_1
3   where cast(lastname as char) like '%TAY%'
4   or cast(lastname as char) like '%RES%'
5

```

CustomerKey	Prefix	FirstName	LastName	BirthDate	MaritalStatus	Gender	EmailAddress	AnnualIncome
28969	Ms	EDUARDO	FLORES	05-08-1948	M	M	eduardo57@adventure-works.com	30000
28985	Ms	ANDREW	TAYLOR	02-03-1942	M	M	andrew18@adventure-works.com	50000
29012	Ms	JEREMIAH	TAYLOR	01-03-1950	M	M	jeremiah2@adventure-works.com	40000
29243	Ms	JARED	TORRES	12/20/1962	M	M	jared7@adventure-works.com	110000
29276	Ms	SYDNEY	FLORES	8	M	F	sydney34@adventure-works.com	70000
29394	Ms	RAQUEL	TORRES	11-05-1962	S	F	raquel8@adventure-works.com	30000
29415	Ms	OSCAR	FLORES	9	M	M	oscar20@adventure-works.com	30000

85. Write a query to sort customers by their birthdate in ascending order within each occupation category.



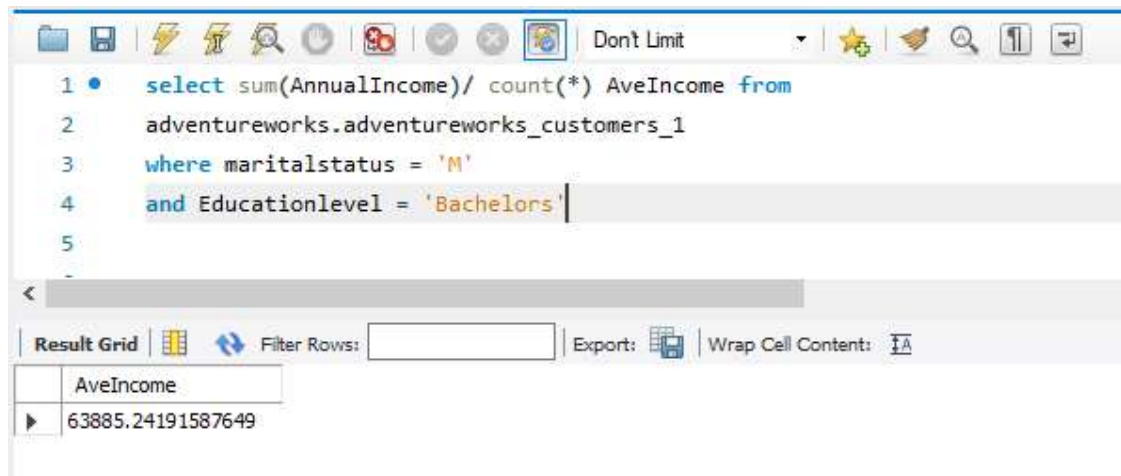
```

1 • select * from
2   adventureworks.adventureworks_customers_1
3   where length(birthdate) > 9
4   order by occupation asc, newbirthday asc
5

```

MaritalStatus	Gender	EmailAddress	AnnualIncome	TotalChildren	EducationLevel	Occupation	HomeOwner	newBirthday
S	F	emma1@adventure-works.com	30000	1	Partial College	Clerical	Y	1913-09-10
S	F	jadyn7@adventure-works.com	10000	3	Bachelors	Clerical	N	1919-04-08
M	M	jack6@adventure-works.com	20000	3	Partial High School	Clerical	N	1919-06-06
M	M	nathaniel8@adventure-works.com	20000	3	Partial High School	Clerical	N	1921-03-10
M	F	jennifer4@adventure-works.com	10000	4	Partial High School	Clerical	N	1921-11-10
M	M	dakota8@adventure-works.com	10000	3	Bachelors	Clerical	Y	1922-02-04
M	F	elizabeth36@adventure-works.com	10000	3	Bachelors	Clerical	N	1922-10-11
M	M	matthew25@adventure-works.com	40000	1	Graduate Degree	Clerical	Y	1923-08-03

86. Create a query to calculate the average annual income of customers with a specific marital status and education level combination (e.g., Married and Bachelor's degree).



The screenshot shows a SQL query in the Enterprise Manager interface. The query is:

```

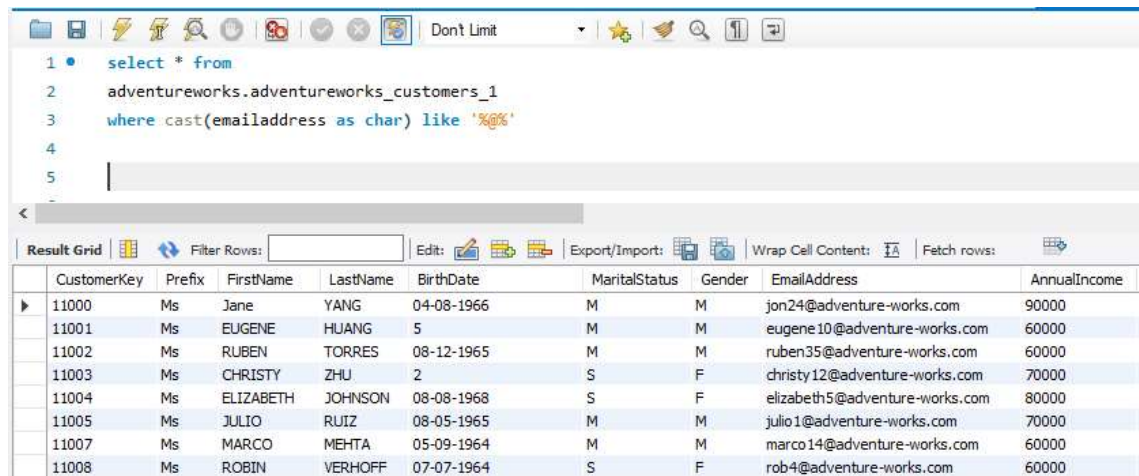
1 • select sum(AnnualIncome)/ count(*) AveIncome from
2   adventureworks.adventureworks_customers_1
3   where maritalstatus = 'M'
4   and Educationlevel = 'Bachelors'
5

```

The result grid below the query shows a single row with the value 63885.24191587649.

AveIncome
63885.24191587649

87. Write a query to find customers whose email address contains a specific special character (e.g., '@').



The screenshot shows a SQL query in the Enterprise Manager interface. The query is:

```

1 • select * from
2   adventureworks.adventureworks_customers_1
3   where cast(emailaddress as char) like '%@%'
4
5

```

The result grid below the query shows a list of customers with their details.

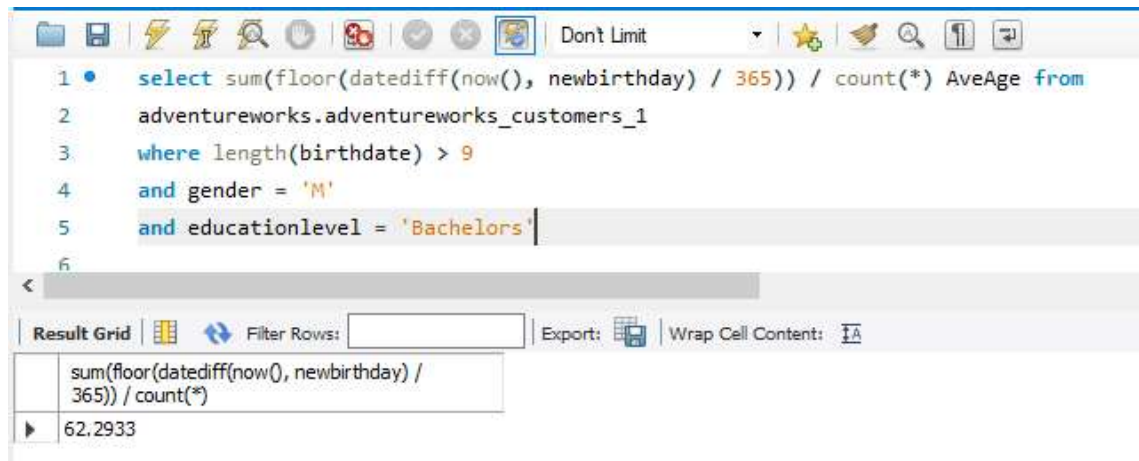
	CustomerKey	Prefix	FirstName	LastName	BirthDate	MaritalStatus	Gender	EmailAddress	AnnualIncome
▶	11000	Ms	Jane	YANG	04-08-1966	M	M	jon24@adventure-works.com	90000
	11001	Ms	EUGENE	HUANG	5	M	M	eugene10@adventure-works.com	60000
	11002	Ms	RUBEN	TORRES	08-12-1965	M	M	ruben35@adventure-works.com	60000
	11003	Ms	CHRISTY	ZHU	2	S	F	christy12@adventure-works.com	70000
	11004	Ms	ELIZABETH	JOHNSON	08-08-1968	S	F	elizabeth5@adventure-works.com	80000
	11005	Ms	JULIO	RUIZ	08-05-1965	M	M	julio1@adventure-works.com	70000
	11007	Ms	MARCO	MEHTA	05-09-1964	M	M	marco14@adventure-works.com	60000
	11008	Ms	ROBIN	VERHOFF	07-07-1964	S	F	rob4@adventure-works.com	60000

88. Create a query to identify customers who have made purchases from multiple store locations.

// Store location note in dataset

89. Write a query to calculate the total annual income of customers with a specific occupation and gender combination (e.g., Manager and Male).

92. Create a query to calculate the average age of customers with a specific education level and gender combination (e.g., Master's degree and Female).

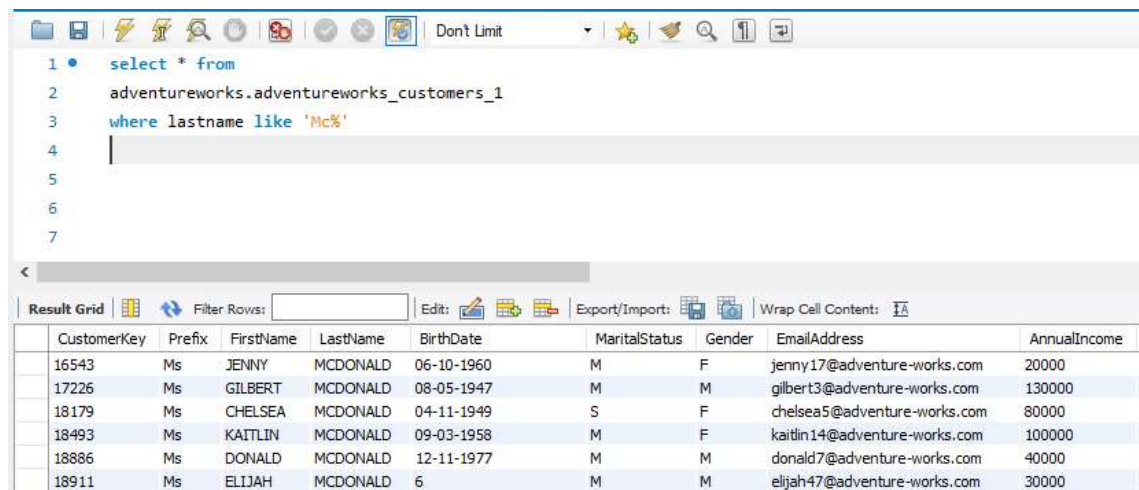


```
1 • select sum(floor(datediff(now(), newbirthday) / 365)) / count(*) AveAge from
2   adventureworks.adventureworks_customers_1
3   where length(birthdate) > 9
4   and gender = 'M'
5   and educationlevel = 'Bachelors'
```

Result Grid

sum(floor(datediff(now(), newbirthday) / 365)) / count(*)
62.2933

93. Write a query to find customers whose last name starts with a specific prefix (e.g., 'Mc').



```
1 • select * from
2   adventureworks.adventureworks_customers_1
3   where lastname like 'Mc%'
4
5
6
7
```

Result Grid

CustomerKey	Prefix	FirstName	LastName	BirthDate	MaritalStatus	Gender	EmailAddress	AnnualIncome
16543	Ms	JENNY	MCDONALD	06-10-1960	M	F	jenny17@adventure-works.com	20000
17226	Ms	GILBERT	MCDONALD	08-05-1947	M	M	gilbert3@adventure-works.com	130000
18179	Ms	CHELSEA	MCDONALD	04-11-1949	S	F	chelsea5@adventure-works.com	80000
18493	Ms	KAITLIN	MCDONALD	09-03-1958	M	F	kaitlin14@adventure-works.com	100000
18886	Ms	DONALD	MCDONALD	12-11-1977	M	M	donald7@adventure-works.com	40000
18911	Ms	ELIJAH	MCDONALD	6	M	M	elijah47@adventure-works.com	30000

94. Create a query to identify customers who have made purchases of a specific product category (e.g., electronics).

// product category no available in dataset

95. Write a query to calculate the total annual income of customers with a specific marital status and education level combination (e.g., Single and Bachelor's degree).

```

1 • select sum(AnnualIncome) from
2   adventureworks.adventureworks_customers_1
3   where educationlevel = 'Bachelors'
4   and maritalstatus = 'S'
5
6
7
8

```

Result Grid

sum(AnnualIncome)
76030000

96. Create a query to find customers whose email address domain is a specific number of characters long (e.g., 10 characters).

```

1 • select * from
2   adventureworks.adventureworks_customers_1
3   where
4   length(substring_index(emailaddress, '@', -1)) = 19
5

```

Result Grid

	CustomerKey	Prefix	FirstName	LastName	BirthDate	MaritalStatus	Gender	EmailAddress	AnnualIn
▶	11000	Ms	Jane	YANG	04-08-1966	M	M	jon24@adventure-works.com	90000
	11001	Ms	EUGENE	HUANG	5	M	M	eugene10@adventure-works.com	60000
	11002	Ms	RUBEN	TORRES	08-12-1965	M	M	ruben35@adventure-works.com	60000
	11003	Ms	CHRISTY	ZHU	2	S	F	christy12@adventure-works.com	70000
	11004	Ms	ELIZABETH	JOHNSON	08-08-1968	S	F	elizabeth5@adventure-works.com	80000
	11005	Ms	JULIO	RUIZ	08-05-1965	M	M	julio1@adventure-works.com	70000
	11007	Ms	MARCO	MEHTA	05-09-1964	M	M	marco14@adventure-works.com	60000

97. Write a query to sort customers by their annual income in ascending order within each education level category.

```

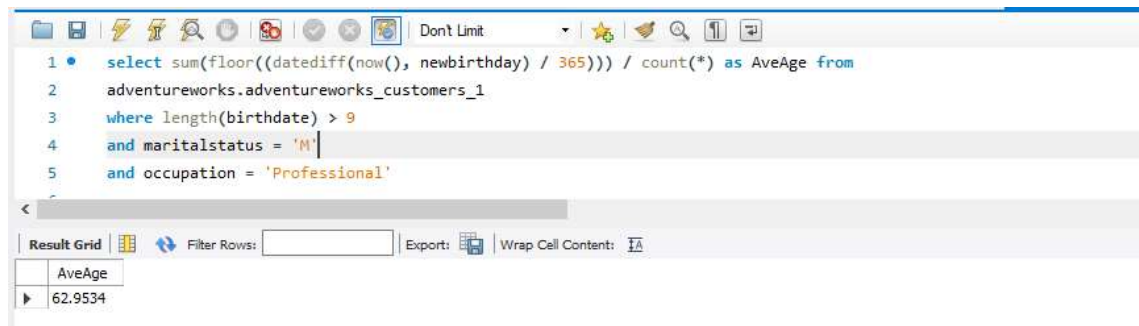
1 • select * from
2   adventureworks.adventureworks_customers_1
3   order by educationlevel asc, annualincome asc
4
5

```

Result Grid

late	MaritalStatus	Gender	EmailAddress	AnnualIncome	TotalChildren	EducationLevel	Occupation	HomeOwner	newBirth
	S	F	catherine5@adventure-works.com	130000	1	Graduate Deg...	Management	N	NULL
	S	F	olivia16@adventure-works.com	130000	1	Graduate Deg...	Management	Y	NULL
1935	M	M	robert25@adventure-works.com	130000	2	Graduate Deg...	Management	N	1935-06-
	M	M	alex3@adventure-works.com	130000	1	Graduate Deg...	Management	Y	NULL
1969	S	F	brandy11@adventure-works.com	130000	1	Graduate Deg...	Management	N	1969-10-
1965	M	M	kyle31@adventure-works.com	130000	1	Graduate Deg...	Management	Y	1965-11-
1965	M	M	andrew19@adventure-works.com	130000	1	Graduate Deg...	Management	Y	1965-10-
1934	M	M	angel4@adventure-works.com	130000	1	Graduate Deg...	Management	N	1934-09-

98. Create a query to calculate the average age of customers with a specific occupation and marital status combination (e.g., Engineer and Married).

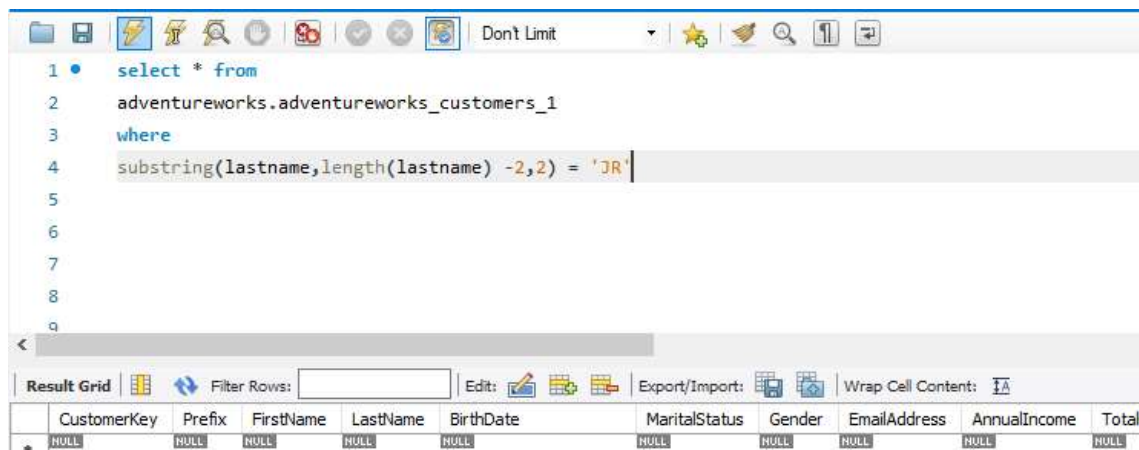


```
1 • select sum(floor((datediff(now(), newbirthday) / 365))) / count(*) as AveAge from
2   adventureworks.adventureworks_customers_1
3   where length(birthdate) > 9
4   and maritalstatus = 'M'
5   and occupation = 'Professional'
```

Result Grid

AveAge
62.9534

99. Write a query to find customers whose first name ends with a specific suffix (e.g., 'Jr.').



```
1 • select * from
2   adventureworks.adventureworks_customers_1
3   where
4   substring(lastname,length(lastname) -2,2) = 'JR'
```

Result Grid

CustomerKey	Prefix	FirstName	LastName	BirthDate	MaritalStatus	Gender	EmailAddress	AnnualIncome	Total
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

100. Create a query to identify customers who have made purchases on a specific day of the week (e.g., Sunday).

//purchase date not available in dataset