Hindi Vidya Prachar Samiti's

RAMNIRANJAN JHUNJHUNWALA COLLEGE OF ARTS, SCIENCE & COMMERCE (AUTONOMOUS)

Database Management System



Name: Ayush Nivas Gholap

Roll No: 10025 Class: FY-DSAI



Ramniranjan Jhunjhunwala College of Arts, Science and Commerce

Department of Data Science and Artificial Intelligence

CERTIFICATE

This is to certify Ayush Nivas Gholap FY Bsc Data Science and Artificial Intelligence Roll No. 10025 successfully completed the practical Database Management System(DBMS) during the Academic Year 2024-2025.

Date: 15/2/2025

Prof. Sujata Kotian Prof-In-Charge

Q1 Create table Sales and perform the following queries:

- 1)Retrieve all columns from the Sales table.
- 2)Retrieve the sale id and sale date from the Sales table.
- 3) Filter the Sales table to show only sales with a total price greater than \$100.
- 4)Retrieve then sale_id and total_price from the Sales table for sales made on January 3,2024.
- 5)Retrieve the sale_id, product_id and total_price from the Sales table for sales with a quantity_sold greater than 4

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| Section | Sect
```

Q2 Write SQL query for creating:

- 1) Database
- 2)Use Database
- 3)View Database
- 4) View all tables in databases

```
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**Filiates.**Other names may be trademarks of their respective

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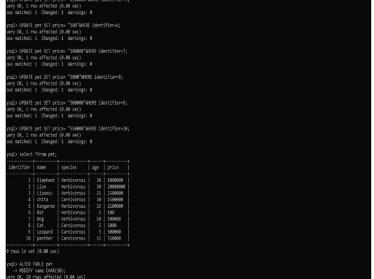
**Filiates.**Other names may be trademarks of their respective

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```

Q3 Write SQL query to:

- 1)Create table with primary key constraint.
- 2)Insert Update delete records in table.





Q4 Write SQL queries for modifying table:

- 1)Change Table Name
- 2)Add new column to Table
- 3)Change column Name
- 4)To change a column data type

```
mysql> ALTER TABLE employees
-> MODIFY COLUMN emp_id int(5),
-> MODIFY COLUMN income VARCHAR(20);
Query OK, 11 rows affected, 1 warning (1.47 sec)
Records: 11 Duplicates: 0 Warnings: 1
```

```
mysql> ALTEX TABLE pet

ADD COLUMN mane VARCHAR(64);
SEROR 1880 (42532): Duplicate column mame 'mame'
mysql> ADD COLUMN mane VARCHAR(64)

> salect "from pet;
SEROR 1880 (42632): Vo have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'ADD COLUMN mane VARCHAR(64)

> salect "from pet at line 1
mysql> ALTEX TABLE pet

> ADD COLUMN price VARCHAR(64);
Deery OK, 0 rous affected (0.62 sec)
seconds; 0 Duplicates: 0 Marnings; 0

mysql> select "from pet;

id in name | species | age | price |

1 | Elephant | Herbivrorus | 30 | MUL |
2 | Lion | Herbivrorus | 30 | MUL |
3 | Liones | Herbivrorus | 5 | MUL |
4 | chita | Carmivrorus | 5 | MUL |
5 | Kangaron | Herbivrorus | 5 | MUL |
6 | Rat | Herbivrorus | 5 | MUL |
8 | Cat | Carmivrorus | 5 | MUL |
9 | Leopard | Carmivrorus | 5 | MUL |
9 | Leopard | Carmivrorus | 5 | MUL |
10 | Pows in set (0.00 sec)
mysql> insert into pet values(18000);
SMORK 1136 (2360); Column count doesn't match value count at row 1
mysql> ALTEX TABLE pet

1 | Elephant | Herbivrorus | 30 | MUL |
10 | Town saffected (0.01 sec)
mysql> select "from pet;

identifier | name | species | age | price |

1 | Elephant | Herbivrorus | 30 | MUL |
2 | Lion | Herbivrorus | 30 | MUL |
3 | Liones | Herbivrorus | 30 | MUL |
3 | Liones | Herbivrorus | 30 | MUL |
4 | Cliones | Herbivrorus | 30 | MUL |
5 | Liones | Herbivrorus | 30 | MUL |
6 | Liones | Herbivrorus | 30 | MUL |
7 | Liones | Herbivrorus | 30 | MUL |
8 | Cat | Carmivrorus | 30 | MUL |
9 | Liones | Herbivrorus | 30 | MUL |
9 | Liones | Herbivrorus | 30 | MUL |
9 | Liones | Herbivrorus | 30 | MUL |
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9 | Liones | Herbivrorus | 30 | MUL |
9 | Liones | Herbivrorus | 30 | MUL |
9 | Liones | Her
```

Q5 Write SQL query to update data from table:

Q6 Write SQL query to show the use of:

- 1)Not Null
- 2)Unique Key
- 3)Primary Key

```
ysql> use gorilla;
Natabase changed
Nysql> create table employee already exists
NYsql> create table claent(employee al INT NOT NULL,first_name VARCHAR(50) NOT NULL,last_name VARCHAR(50) NOT NULL);
Nevp (X, 0 rows affected (8.02 sec)

Nysql> insert into client values(1,'Ayush',rinll);
NROR 1808 (23000): Column 'last_name' cannot be null
Nysql> insert into client values(1,'Ayush','Gholap');
Nevp (X, 1 row affected (0.00 sec)

Nysql> insert into client values(1,'Ayush','Gholap');
Nevp (X, 1 row affected (0.00 sec)

Nysql> insert into users values(1,'ayush2104');
Nevp (X, 0 rows affected (0.00 sec)

Nysql> insert into users values(1,'ayush2104');
Nevp (X, 1 row affected (0.00 sec)

Nysql> insert into users values(1,'goku234');
Norm (1062 (23000): Duplicate entry '1' for key 'users.PRIMARY'
Nysql> insert into users values(2,null);
Nevp (X, 1 row affected (0.00 sec)

Nysql> insert into users values(3,null);
Nevp (X, 1 row affected (0.00 sec)

Nysql> insert into users values(3,null);
Nevp (X, 1 row affected (0.00 sec)

Nysql> insert into users values(1,null);
Nevp (X, 1 row affected (0.00 sec)
```

Q7 Write an SQL query to show the use of following constraints:

- 1) Foreign key
- 2) Check
- 3) Default
- 4) Auto increment

```
mysql> create table products1(product_id INT PRIMARY KEY,product_name VARCHAR(100),price DECIMAL(10,2),CHECK(price>-1);

ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near " at line 1 mysql> create table products1(product in INT PRIMARY KEY,product_name VARCHAR(100),price DECIMAL(10,2),CHECK(price>-1));

Query OK, Ø rows affected (0.02 sec)

mysql> insert into products values(1, 'kurkure',5);

ERROR 1416 (42502): Table 'gorilla.products' doesn't exist mysql> insert into productsi values(1, 'kurkure',5);

Query OK, I row affected (0.01 sec)

mysql> insert into productsi values(2, 'lays',0);

ERROR 3819 (19700): Check constraint 'productsi_chk_1' is violated.

mysql> select *from users;

| user_id | email |

| 2 | MULL |
| 3 | MULL |
| 5 | MULL |
| 1 | ayush2104 |
| 4 rows in set (0.00 sec)

mysql> select *from productsi;

| product_id | product_name | price |
| 1 | kurkure | 5.00 |
| 1 row in set (0.00 sec)
```

```
mysql) use gorilla;
Database changed
mysql) Create TABLE Geeks(Id INT,Name VARCHAR(100),Age INT,Location VARCHAR(200) DEFAULT 'Mumbsi');
Query CW, 0 rous affected (0.04 sec)
mysql) INSERT into Geeks VALUES(1, 'Ayush' ,18, DEFAULT);
Query CW, 1 row affected (0.01 sec)
mysql) INSERT into Geeks VALUES(2, 'Nikhil' ,20, "Banglore");
Query CW, 1 row affected (0.01 sec)
mysql) INSERT into Geeks VALUES(3, 'Deepali' ,19, 'Dubai');
Query CW, 1 row affected (0.03 sec)
mysql) INSERT into Geeks VALUES(4, 'Sid' ,17, DEFAULT);
Query CW, 1 row affected (0.03 sec)
mysql) Select "from Geeks;

| Id | Name | Age | Location |
| 1 | Ayush | 18 | Mumbai |
| 2 | Nikhil | 20 | Banglore |
| 3 | Deepali | 19 | Dubai |
| 4 | Sid | 17 | Mumbai |
| 4 rows in set (0.00 sec)
```

Q8 Write an SQL query to show the use of Concate Function:

```
Welcome to the MySQL monitor. Commands end with ; or \g. four MySQL connection id is 10 Server version: 9.1.0 MySQL Community Server - GPL
Copyright (c) 2000, 2024, Oracle and/or its affiliates.
Dracle is a registered trademark of Oracle Corporation and/or its affiliates. Other names may be trademarks of their respective
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.
nysql> use gorilla;
Jatabase changed
nysql> SELECT CONCAT('hi','there');
 CONCAT('hi','there')
 hithere |
 row in set (0.01 sec)
 ysql> SELECT CONCAT('hi','','there!');
 CONCAT('hi','','there!')
 hithere!
 row in set (0.00 sec)
nysql> SELECT CONCAT('hi',' ','there!');
 CONCAT('hi',' ','there!') |
nysql> SELECT CONCAT('hi',' ','there!',NULL);
CONCAT('hi',' ','there!',NULL) |
 ysql> SELECT LENGTH('LearnSQL.com');
 LENGTH('LearnSQL.com') |
 12 |
row in set (0.02 sec)
```

Q9 Write SQL query for text function:

```
ysql> SELECT LOWER('LEARNSQL.com');
LOWER('LEARNSQL.com')
learnsql.com
ysql> SELECT UPPER('LearnSQL.com');
                                                                                                                                                                                         ysql> SELECT LENGTH('LearnSQL.com');
UPPER('LearnSQL.com')
                                                                                                                                                                                          LENGTH('LearnSQL.com')
LEARNSQL.COM
ysql> SELECT SUBSTRING('LearnSQL.com',9);
                                                                                                                                                                                          row in set (0.02 sec)
SUBSTRING('LearnSQL.com',9)
row in set (0.00 sec)
nysql> SELECT SUBSTRING('LearnSQL.com',1,7);
SUBSTRING('LearnSQL.com',1,7)
mysql> SELECT SUBSTRING('LearnSQL.com',1,8);
SUBSTRING('LearnSQL.com',1,8)
LearnSQL
ysql> SELECT REPLACE('LearnSQL.com','SQL','PYTHON');
REPLACE('LearnSQL.com','SQL','PYTHON')
LearnPYTHON.com
 row in set (0.00 sec)
```

Q10 Write SQL query to arrange rows in ascending and decending order:

```
irous in set (0.00 sec)

sysql: create table franchises (Francise Varchar(50),inception_year INT,total_revenue_busd DECIMAL(5,2),original_medium VARCHAR(50),ouner Varchar(50),n_movies INT);

IRROR 1906 (30000): No database selected

sysql: use grave table franchises (Francise Varchar(50),inception_year INT,total_revenue_busd DECIMAL(5,2),original_medium VARCHAR(50),ouner Varchar(50),n_movies INT);

Suery OK, 0 rous affected (0.02 sec)

sysql: insert into franchises values("Star Nars",1977,46.7,"movie","The Walt Disney Company",12);

Suery OK, 1 rou affected (0.03 sec)

sysql: insert into franchises values("Mickey Mouse and Friends",1928,52.2,"cartoon","The Walt Disney Company");

BROR 1136 (2159): Column count doesn't match value count at row 1

sysql: insert into franchises values("Mickey Mouse and Friends",1928,52.2,"cartoon","The Walt Disney Company",10);

Suery OK, 1 rou affected (0.00 sec)

sysql: insert into franchises values("Mickey Mouse and Friends",1928,52.2,"cartoon","The Walt Disney Company",10);

Suery OK, 1 rou affected (0.00 sec)

sysql: insert into franchises values("Minne the poah",1924,48.5,"book","Froebel-kan",33);

Suery OK, 1 rou affected (0.00 sec)

sysql: insert into franchises values("Minne the poah",1924,48.5,"book","The Walt Disney Company",24);

Suery OK, 1 rou affected (0.00 sec)

sysql: insert into franchises values("Disney Princess",1000,48.4,"movie","The Walt Disney Company",24);

Suery OK, 1 rou affected (0.00 sec)

sysql: insert into franchises values("Disney Princess",1000,48.4,"movie","The Walt Disney Company",24);

Suery OK, 1 rou affected (0.00 sec)

sysql: insert into franchises values("Disney Princess",1000,48.4,"movie","The Walt Disney Company",24);

Suery OK, 1 rou affected (0.00 sec)

sysql: sincert into franchises values("Disney Princess",1000,48.4,"movie","The Walt Disney Company",24);

Suery OK, 1 rou affected (0.00 sec)

sysql: sincert into franchises values("Disney Company",24);

Suery OK, 1 rou affected (0.00 sec)

sysql: sincert into franchises values("Disney Com
```

 Francise	inception_year
	
Winnie the poah	1924
Mickey Mouse and Friends	1928
Anpanman Star Wars	1977
Pokemon	1996
Disney Princess	2000
n set (0.00 sec) elect Francise,tota ROM franchises	l_revenue_busd
rows in set (0.00 sec) sql> select Francise,tota -> FROM franchises -> ORDER BY total_reven	.l_revenue_busd ue_busd DESC;
rows in set (0.00 sec) sql> select Francise, tota -> FROM Franchises -> ORDER BY total_reven Francise	l_revenue_busd ue_busd DESC; + - total_revenue_busd
rows in set (0.00 sec) sql> select Francise,tota -> FROM Franchises -> ORDER BY total_reven Francise	ll_revenue_busd ue_busd DESC; total_revenue_busd
rows in set (0.00 sec) sql> select Francise,tota -> FROM Franchises -> ORDER BY total reven Francise Pokemon Mickey Mouse and Friends Winnie the poah	ll_revenue_busd ue_busd DESC; total_revenue_busd
rows in set (0.00 sec) sql> select Francise, tota -> FROM franchises -> ORDER BY total reven Francise Pokemon Mickey Mouse and Friends Winnie the poah Star Wars	l_revenue_busd ue_busd DESC;
rows in set (0.00 sec) sql> select Francise,tota -> FROM Franchises -> ORDER BY total reven Francise Pokemon Mickey Mouse and Friends Winnie the poah	l_revenue_busd ue_busd DESC; total_revenue_busc; 88.06 52.26 48.56

\mathbf{Q} 11 Write SQL query to limit the no. of rows and get unique values with distinct keyword:

nter password: ********* elcome to the MySQL monitor. Commands end with ; or \g. our MySQL connection id is 14 erver version: 9.1.0 MySQL Community Server - GPL							
opyright (c) 2000, 2024, Oracle and/or its affiliates.							
racle is a registered trade ffiliates. Other names may wners.							
/pe 'help;' or '\h' for he	lp. Type '\c' to	clear the current inp	ut statement.				
ysql> use gorilla; atabase changed ysql> select *from franchi:							
				owner			
Star Wars Mickey Mouse and Friends Anpanman	1977	46.70 52.20	movie cartoon	The Walt Disney Company The Walt Disney Company Froebel-kan	12		
Winnie the Pooh Pokemon Disney Princess	1924 1996 2000			The Walt Disney Company The Pokemon Company The Walt Disney Company			
rows in set (0.00 sec)		+			++		
ysql> SELECT * -> FROM franchises -> LIMIT 3;							
Franchise	inception_year	total_revenue_busd	original_medium	owner	n_movies		
Star Wars Mickey Mouse and Friends Anpanman	1977 1928 1973	46.70 52.20 38.40	movie cartoon book	The Walt Disney Company The Walt Disney Company Froebel-kan	12 NULL 33		
Appannan 1973 38.40 book Froebel-kan 33 rows in set (0.01 sec) ysql> SELECT DISTINCT -> FROM franchises -> LINUT 3; RROR 1664 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'FROM franchises INUT 3' at line 2 ysql> SELECT DISTINCT owner -> FROM franchises -> LINUT 3; owner The Walt Disney Company Froebel-kan The Pokemon Company Froebel-kan The Pokemon Company							

Q 12 Write SQL query for filtering on text columns:-

```
From Sin Set (0.00 Sec)

##SQB2 create table franchises(francise Varchar(50),inception_year INT,total_revenue_busd DECIMAL(5,2),original_medium VARCHAR(50),owner Varchar(50),n_movies INT);

##BQB2 table (10000): 00 database selected

##SQB2 table (10000): 00 database selected

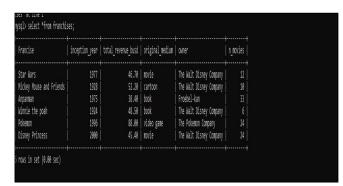
###SQB2 table (10000): 00 database selected

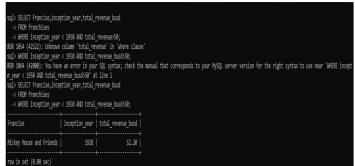
####SQB2 table (1
```

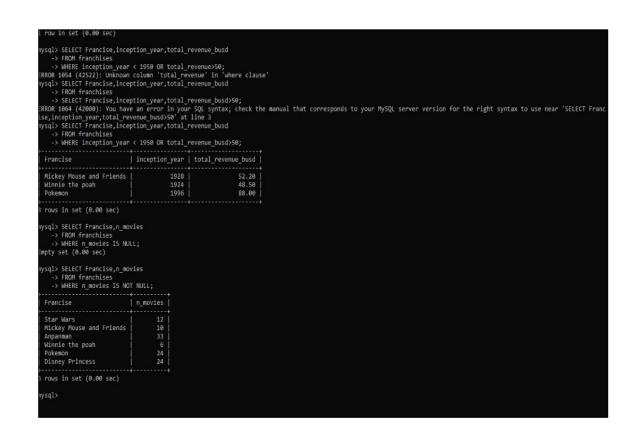
```
Francise | original medium |
Star Wars | movie |
Pokemon | video game |
Disney Princess | movie |
rows in set (0.00 sec)
/sql> SELECT Francise, original_medium
-> FROM franchises |
-> WHERE original_medium LIKE '%oo%';
Francise | original_medium |
Mickey Mouse and Friends | cartoon |
Anpamman | book |
Winnie the poah | book |
rows in set (0.00 sec)
```

```
# state of the content of the right syntax to use near " at line 2 systax; check the manual that corresponds to your MySQL server version for the right syntax to use near " at line 1 systax; State of the right syntax to use near " at line 2 systax; State of the right syntax to use near " at line 2 systax; State of the right syntax to use near " at line 2 systax; State of the right syntax to use near " at line 2 systax; State of the right syntax to use near " at line 2 systax; State of the right syntax to use near " at line 2 systax; State of the right syntax to use near " at line 2 systax; State of the right syntax to use near " at line 2 systax; State of the right syntax to use near " at line 2 systax; State of the right syntax to use near " at line 2 systax; State of the right syntax to use near " at line 2 systax; State of the right syntax to use near " at line 2 systax; State of the right syntax to use near " at line 2 systax; State of the right syntax to use near " at line 2 systax; State of the right syntax to use near " at line 2 systax; State of the right syntax to use near " at line 2 systax; State of the right syntax to use near " at line 2 systax; State of the right syntax to use near " at line 2 systax; State of the right syntax to use near " at line 2 systax; State of the right syntax to use near " at line 2 systax; State of the right syntax to use near " at line 2 systax; State of the right syntax to use near " at line 2 systax; State of the right syntax to use near " at line 2 systax; State of the right syntax to use near " at line 2 systax; State of the right syntax to use near " at line 2 systax; State of the right syntax to use near " at line 2 systax; State of the right syntax to use near " at line 2 systax; State of the right syntax to use near " at line 2 systax; State of the right syntax to use near " at line 2 systax; State of the right syntax to use near " at line 2 systax; State of the right syntax to use near " at line 2 systax; State of the right syntax to use near " at line 2 systax;
```

Q 13 Write SQL query to Apply filtering on multiple columns and missing data:







Q 14 Write SQL query for filtering all numeric column:

```
Agenda the gracials parties of protect Falls franchises (MRCMAR(50),inception_year INT, total_revenue_busd DECIMAL(30,2),original_medium VARCHAR(50),owner VARCHAR(50),n_movies INT);

Agenda DECET into franchises (MALUES("Star Mars",1977,46.7,"movie","The Walt Disney Company",181.L);

Agry CO, Form effected (6.05 sec)

MysQl DECET into franchises (MALUES("Wickey House and Friends",1928,52.2,"cartoon","The Walt Disney Company",184.L);

Agry CO, Form effected (6.05 sec)

MysQl DECET into franchises (MALUES("Wickey House and Friends",1928,52.2,"cartoon","The Walt Disney Company",184.L);

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MysQl DECET into franchises (MALUES("Wickey House and Friends",1928,48.5,"book","Frobel-i-kin",33);

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MysQl DECET into franchises (MALUES("Wickey House and Friends",1924,48.5,"book","The Walt Disney Company",6);

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MysQl DECET into franchises (MALUES("Wickey House and Friends",1924,48.5,"book","The Walt Disney Company",6);

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MysQl DECET into franchises (MALUES("Wickey House and Friends",1924,48.5,"book","The Walt Disney Company",81,L);

Agry CO, Form effected (6.05 sec)

MysQl DECET into franchises (MALUES("Wickey House and Friends",1924,48.5,"book","The Walt Disney Company",81,L);

Agry CO, Form effected (6.05 sec)

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Agra Color of the Color of the Malue Color of the Walt Disney Company (8.2);

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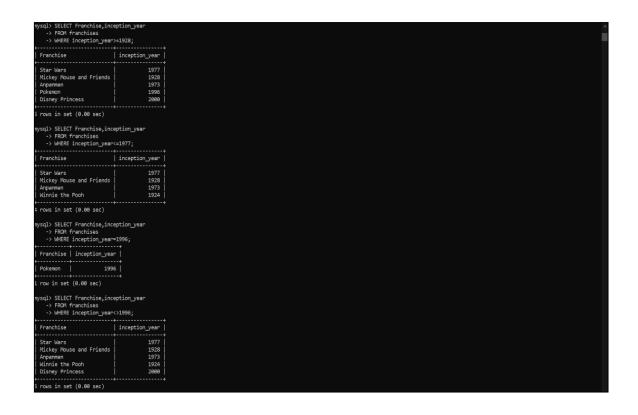
Agra Color of the Malue Color of the Walt Disney Company (8.2);

From franchises (MALUES("Wickey House and Friends",1924,48.5,"book","The Walt Disney Company (8.2);

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From franchises (MALUES("Wickey House And Friends",1924,48.5,"book","The Walt Disney Company (8.2);

From franchises (MAL
```



Q 15 Write SQL query to show the implementation of aggregation on data:

Francise	inception_year	total_revenue_busd	original_medium	owner	n_movies
Star Wars	1977	46.70	movie	The Walt Disney Company	12
Mickey Mouse and Friends	1928	52.20	cartoon	The Walt Disney Company	10
Anpanman	1975	38.40	book	Froebel-kan	33
Winnie the poah	1924	48.50	book	The Walt Disney Company	6
Pokemon	1996	88.00	video game	The Pokemon Company	24
Disney Princess	2000	45.40	movie	The Walt Disney Company	24

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yeals SELET Franchises

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```

```
# SPACE TO ADMIT (*)

- SPACE TRANSPORT TO ADMIT (*)

- The Mail Disney Company | 4 |

- Frobeil-kan | 1 |

- The Mail Disney Company | 4 |

- Frobeil-kan | 1 |

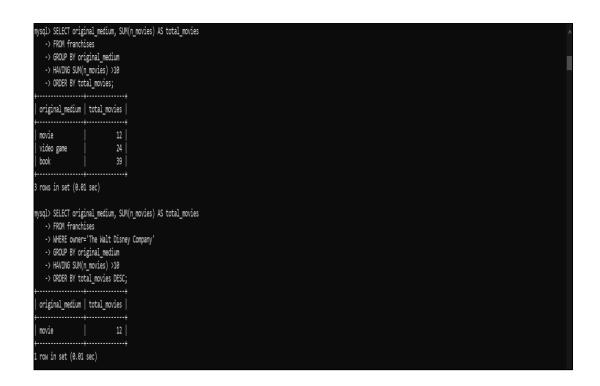
- The Mail Disney Company | 1 |

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Q 16 Write SQL query for Grouping, Filtering and Sorting:

Francise	inception_year	total_revenue_busd	original_medium	owner	n_movies
Star Wars	1,977	46,70	movie	The Walt Disney Company	12
Mickey Mouse and Friends	1928	52.20	cartoon	The Walt Disney Company	10
Anpanman	1975	38,40	book	Froebel-kan	33
Winnie the poah	1924	48.50	book	The Walt Disney Company	6
Pokemon	1996	88.00	video game	The Pokemon Company	24
Disney Princess	2000	45.40	movie	The Walt Disney Company	24



Q 17 Write SQL query to show the implementation of Numeric Function:

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Q 18 Write a SQL query for the following table and perform the following operations:

- 1)From the following table, write a SQL query to calculate total purchase amount of all orders. Return total purchase amount.
- 2)From the following table, write a SQL query to calculate the average purchase amount of all orders. Return average purchase amount.
- 3) From the following table, write a SQL query that counts the number of unique salespeople. return number of salespeople.
- 4) From the following table, write a SQL query to count the number of customers. return number of customers.
- 5) From the following table, write a SQL query to determine the number of customers who have purch amt >2480.
- 6) From the following table, write a SQL query to find the maximum purchase amount.
- 7) From the following table, write a SQL query to find the minimum purchase amount.
- 8) From the following table, write a SQL query to count the no. of customers whose customer id is 3002 or 3008.
- 9) From the following table, write a SQL query to count the number of customers whose salesman id is 5001.
- 10) From the following table, write a SQL query to count all the orders generated on '2012-08-17'. Return number of orders.

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