DATABASE SYSTEM LAB MANUAL

Assignment 02

Submitted By:

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CIIT/FA22-BCS-203/SWL(4-B)

Submitted To:

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● LAB TASK 1:

In this lab,we learn how to create database and table and also learn how to insert data in a table.

For create database: **CREATE** DATABASE Student;

For create Table: **CREATE** Table student_info(id int primary key,student_name varchar(20),student_class varchar(10),student_fee numeric(2),student_marks int NOT NULL);

For insert data:

1- INSERT into student_info (id,student_name,student_class,student_fee,student_marks) values(1,‘Sana Shaheen’, ‘BSCS’, ‘10000’, 964);

2- INSERT into student_info (id,student_name,student_class,student_fee,student_marks) values(2,‘Amna Khadim’, ‘BCS’, ‘300000’, 974);

3- INSERT into student_info (id,student_name,student_class,student_fee,student_marks) values(3,‘Amna Zahid’, ‘78800’, 998);

4- INSERT into student_info (id,student_name,student_class,student_fee,student_marks) values(4,‘zunaira’, ‘FSN’,789);

```
SELECT * FROM `student_info`
```

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Show all | Number of rows: 25 Filter rows: Search this table Sort by key: No

Extra options

←T→			id	student_name	student_class	student_fee	student_marks
Edit	Copy	Delete	1	Sana Shaheen	BSCS	10000.00	964
Edit	Copy	Delete	2	Amna Khadim	BCS	300000.00	974
Edit	Copy	Delete	3	Amna Zahid	NULL	78800.00	998
Edit	Copy	Delete	4	zunaira	FSN	NULL	789

● LAB TASK 2:

Query 1: SELECT *(fetch all data):

```
SELECT * FROM `film_locations` ;
```

Edit Copy Delete	1	Forrest Gump	1994	Alabama, USA	Features historical events in a fictional narrativ	Paramount Pictures	Paramount Pictures	Robert Zemeckis	Winston Groom	Tom Hanks	Robin Wright	Gary Sinise
Edit Copy Delete	2	The Matrix	1999	Australia, USA	Popularized "bullet time" cinematography	Village Roadshow Pictures	Warner Bros.	The Wachowskis	The Wachowskis	Keanu Reeves	Laurence Fishburne	Carrie-Anne Moss
Edit Copy Delete	3	The Dark Knight	2008	Chicago, USA	Heath Ledger's portrayal of the Joker won posthumo	Syncopy	Warner Bros. Pictures	Christopher Nolan	Christopher Nolan	Christian Bale	Heath Ledger	Aaron Eckhart
Edit Copy Delete	4	The Great Escape	1963	Germany, Switzerland	Based on a true story	United Artists	Metro-Goldwyn-Mayer	John Sturges	James Clavell	Steve McQueen	James Garner	Richard Attenborough
Edit Copy Delete	5	Jurassic Park	1993	Isla Nublar	Brings dinosaurs to life using groundbreaking effe	Amblin Entertainment	Universal Pictures	Steven Spielberg	Michael Crichton	Sam Neill	Laura Dern	Jeff Goldblum
Edit Copy Delete	6	The Shawshank Redemption	1994	Ohio, USA	Based on a Stephen King novella	Castle Rock Entertainment	Columbia Pictures	Frank Darabont	Frank Darabont	Tim Robbins	Morgan Freeman	Bob Gunton
Edit Copy Delete	7	Avatar	2009	Pandora	Revolutionized CGI in filmmaking	Lightstorm Entertainment	20th Century Studios	James Cameron	James Cameron	Sam Worthington	Zoe Saldana	Sigourney Weaver
Edit Copy Delete	8	The Avengers	2012	New York City	First major crossover of Marvel superheroes on scr	Marvel Studios	Walt Disney Studios	Joss Whedon	Joss Whedon	Robert Downey Jr.	Chris Evans	Mark Ruffalo
Edit Copy Delete	9	Harry Potter and the Sorcerer's Stone	2001	Hogwarts School of Witchcraft and Wizardry	First film adaptation of J.K. Rowling's beloved bo	Warner Bros. Pictures	Warner Bros. Pictures	Chris Columbus	J.K. Rowling	Daniel Radcliffe	Emma Watson	Rupert Grint
Edit Copy Delete	10	The Great Gatsby	2013	Long Island, USA	Based on F. Scott Fitzgerald's novel	Warner Bros. Pictures	Warner Bros. Pictures	Baz Luhrmann	Baz Luhrmann	Leonardo DiCaprio	Carey Mulligan	Tobey Maguire
Edit Copy Delete	11	The Lion King	1994	Pride Lands, Africa	Inspired by William Shakespeare's Hamlet	Walt Disney Pictures	Buena Vista Pictures	Roger Allers, Rob Minkoff	Irene Mecchi, Jonathan Roberts, Linda Woolverton	Matthew Broderick	Jeremy Irons	James Earl Jones
Edit Copy Delete	12	Titanic	1997	North Atlantic Ocean	Based on the real sinking of the RMS Titanic	20th Century Fox	Paramount Pictures	James Cameron	James Cameron	Leonardo DiCaprio	Kate Winslet	Billy Zane
Edit Copy Delete	13	The Godfather	1972	New York City, USA	Based on the novel by Mario Puzo	Paramount Pictures	Paramount Pictures	Francis Ford Coppola	Mario Puzo, Francis Ford Coppola	Marlon Brando	Al Pacino	James Caan
Edit Copy Delete	14	Inception	2010	Worldwide	Explores the concept of dreams within dreams	Syncopy	Warner Bros. Pictures	Christopher Nolan	Christopher Nolan	Leonardo DiCaprio	Joseph Gordon-Levitt	Ellen Page
Edit Copy Delete	15	The Godfather	1972	New York City, USA	Based on the novel by Mario Puzo	Paramount Pictures	Paramount Pictures	Francis Ford Coppola	Mario Puzo, Francis Ford Coppola	Marlon Brando	Al Pacino	James Caan
Edit Copy Delete	16	The Lord of the Rings: The Return of the King	2003	New Zealand	Conclusion of the LOTR trilogy	New Line Cinema	New Line Cinema	Peter Jackson	Fran Walsh, Philippa Boyens, Peter Jackson	Elijah Wood	Ian McKellen	Viggo Mortensen
Edit Copy Delete	17	Fight Club	1999	Wilmington, USA	Twists conventional narrative structures	Fox 2000 Pictures	20th Century Fox	David Fincher	Chuck Palahniuk, Jim Uhls	Brad Pitt	Edward Norton	Helena Bonham Car
Edit Copy Delete	18	Wasda	2021	Lahore, Pakistan	Addresses social issues prevalent in Pakistani soc	Six Sigma Plus	ARY Films	Salma Waseem	Kamran Ahmed	Faysal Qureshi	Shaista Lodhi	Saboor Aly
Edit Copy Delete	19	Load Wedding	2018	Lahore, Pakistan	Deals with the pressures of societal expectations	Filmwala Pictures	Geo Films	Nabeel Qureshi	Fiza Ali Meerza	Fahad Mustafa	Mehwish Hayat	Faisa Hasan
Edit Copy Delete	20	Punjab Nahi Jaungi	2017	Punjab, Pakistan	Showcases the cultural vibrancy of Punjab province	Six Sigma Plus	ARY Films	Nadeem Baig	Khalil-ur-Rehman Qamar	Humayun Saeed	Mehwish Hayat	Urwa Hocane
Edit Copy Delete	21	Jawani Phir Nahi Ani	2015	Karachi, Pakistan	First Pakistani film to be screened at the Beijing	Six Sigma Plus	ARY Films	Nadeem Baig	Vasay Chaudhry	Humayun Saeed	Hamza Ali Abbasi	Ahmed Ali Butt
Edit Copy Delete	22	Na Maloom Afraad	2014	Karachi, Pakistan	The film was a commercial success and earned criti	Filmwala Pictures	Evernaty Pictures	Nabeel Qureshi	Nabeel Qureshi	Fahad Mustafa	Javed Sheikh	Mohsin Abbas Haider
Edit Copy Delete	23	3 Idiots	2009	India	Based on Chetan Bhagat's novel "Five Point Someone	Vinod Chopra Films	Reliance BIG Pictures	Rajkumar Hirani	Rajkumar Hirani, Abhijat Joshi	Aamir Khan	Kareena Kapoor	R. Madhavan
Edit Copy Delete	24	Lagaan	2001	India	The film was nominated for an Academy Award for Be	Aamir Khan Productions	Sony Pictures Releasing	Ashutosh Gowariker	Ashutosh Gowariker	Aamir Khan	Gracy Singh	Rachel Shelley

Query 2: SELECT * FROM TABLE WHERE CONDITION (specific data fetch according to condition)

1-

```
SELECT * FROM `film_locations` WHERE id=1;
```

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Show all | Number of rows: 25 Filter rows: Search this table

Extra options

←T→	Id	Title	Release_Years	Locations	Fun_Facts	Production_Company	Distributors	Directors	Writers	Actor1	Actor2	Actor3
Edit Copy Delete	1	Forrest Gump	1994	Alabama, USA	Features historical events in a fictional narrativ	Paramount Pictures	Paramount Pictures	Robert Zemeckis	Winston Groom	Tom Hanks	Robin Wright	Gary Sinise

2-

```
SELECT * FROM `film_locations` WHERE Release_Years>2000;
```

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Show all | Number of rows: 25 Filter rows: Search this table Sort by key: None

Extra options

	Id	Title	Release_Years	Locations	Fun_Facts	Production_Company	Distributors	Directors	Writers	Actor1	Actor2	Actor3
Edit Copy Delete	3	The Dark Knight	2008	Chicago, USA	Heath Ledger's portrayal of the Joker won posthumo	Syncopy	Warner Bros. Pictures	Christopher Nolan	Christopher Nolan	Christian Bale	Heath Ledger	Aaron Eckhart
Edit Copy Delete	7	Avatar	2009	Pandora	Revolutionized CGI in filmmaking	Lightstorm Entertainment	20th Century Studios	James Cameron	James Cameron	Sam Worthington	Zoe Saldana	Sigourney Weaver
Edit Copy Delete	8	The Avengers	2012	New York City	First major crossover of Marvel superheroes on scr	Marvel Studios	Walt Disney Studios	Joss Whedon	Joss Whedon	Robert Downey Jr.	Chris Evans	Mark Ruffalo
Edit Copy Delete	9	Harry Potter and the Sorcerer's Stone	2001	Hogwarts School of Witchcraft and Wizardry	First film adaptation of J.K. Rowling's beloved bo	Warner Bros. Pictures	Warner Bros. Pictures	Chris Columbus	J.K. Rowling	Daniel Radcliffe	Emma Watson	Rupert Grint
Edit Copy Delete	10	The Great Gatsby	2013	Long Island, USA	Based on F. Scott Fitzgerald's novel	Warner Bros. Pictures	Warner Bros. Pictures	Baz Luhrmann	Baz Luhrmann	Leonardo DiCaprio	Carey Mulligan	Tobey Maguire
Edit Copy Delete	14	Inception	2010	Worldwide	Explores the concept of dreams within dreams	Syncopy	Warner Bros. Pictures	Christopher Nolan	Christopher Nolan	Leonardo DiCaprio	Joseph Gordon-Levitt	Ellen Page

Query 3: SELECT specific columns + condition:

1-

```
SELECT `Id`, `Title`, `Release_Years`, `Locations`, `Fun_Facts` FROM `film_locations` WHERE id=23;
```

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Show all | Number of rows: 25 Filter rows: Search this table

Extra options

	Id	Title	Release_Years	Locations	Fun_Facts
Edit Copy Delete	23	3 Idiots	2009	India	Based on Chetan Bhagat's novel "Five Point Someone

2-

```
SELECT `Id`, `Title`, `Release_Years`,`Directors`, `Writers`, `Actor1`, `Actor2`, `Actor3` FROM `film_locations`;
```

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

1 > >> | Show all | Number of rows: 25 Filter rows: Search this table Sort by key: None

Extra options

	Id	Title	Release_Years	Directors	Writers	Actor1	Actor2	Actor3
Edit Copy Delete	1	Forrest Gump	1994	Robert Zemeckis	Winston Groom	Tom Hanks	Robin Wright	Gary Sinise
Edit Copy Delete	2	The Matrix	1999	The Wachowskis	The Wachowskis	Keanu Reeves	Laurence Fishburne	Carrie-Anne Moss
Edit Copy Delete	3	The Dark Knight	2008	Christopher Nolan	Christopher Nolan	Christian Bale	Heath Ledger	Aaron Eckhart
Edit Copy Delete	4	The Great Escape	1963	John Sturges	James Clavell	Steve McQueen	James Garner	Richard Attenborough
Edit Copy Delete	5	Jurassic Park	1993	Steven Spielberg	Michael Crichton	Sam Neill	Laura Dern	Jeff Goldblum
Edit Copy Delete	6	The Shawshank Redemption	1994	Frank Darabont	Frank Darabont	Tim Robbins	Morgan Freeman	Bob Gunton
Edit Copy Delete	7	Avatar	2009	James Cameron	James Cameron	Sam Worthington	Zoe Saldana	Sigourney Weaver
Edit Copy Delete	8	The Avengers	2012	Joss Whedon	Joss Whedon	Robert Downey Jr.	Chris Evans	Mark Ruffalo
Edit Copy Delete	9	Harry Potter and the Sorcerer's Stone	2001	Chris Columbus	J.K. Rowling	Daniel Radcliffe	Emma Watson	Rupert Grint
Edit Copy Delete	10	The Great Gatsby	2013	Baz Luhrmann	Baz Luhrmann	Leonardo DiCaprio	Carey Mulligan	Tobey Maguire
Edit Copy Delete	11	The Lion King	1994	Roger Allers, Rob Minkoff	Irene Mecchi, Jonathan Roberts, Linda Woolverton	Matthew Broderick	Jeremy Irons	James Earl Jones
Edit Copy Delete	12	Titanic	1997	James Cameron	James Cameron	Leonardo DiCaprio	Kate Winslet	Billy Zane
Edit Copy Delete	13	The Godfather	1972	Francis Ford Coppola	Mario Puzo, Francis Ford Coppola	Marlon Brando	Al Pacino	James Caan

Query 4: OR Operator:

```
SELECT * FROM `film_locations` WHERE id=5 OR id=10 OR id=40;
```

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Show all | Number of rows: 25 Filter rows: Search this table Sort by key: None

Extra options

←T→	Id	Title	Release_Years	Locations	Fun_Facts	Production_Company	Distributors	Directors	Writers	Actor1	Actor2	Actor3
Edit Copy Delete	5	Jurassic Park	1993	Isla Nublar	Brings dinosaurs to life using groundbreaking effe	Amblin Entertainment	Universal Pictures	Steven Spielberg	Michael Crichton	Sam Neill	Laura Dern	Jeff Goldblum
Edit Copy Delete	10	The Great Gatsby	2013	Long Island, USA	Based on F. Scott Fitzgerald's novel	Warner Bros. Pictures	Warner Bros. Pictures	Baz Luhrmann	Baz Luhrmann	Leonardo DiCaprio	Carey Mulligan	Tobey Maguire
Edit Copy Delete	40	Kabhi Khushi Kabhie Gham	2001	India	The film features an ensemble cast and was a major	Dharma Productions	Yash Raj Films	Karan Johar	Karan Johar	Amitabh Bachchan	Shah Rukh Khan	Kajol

Query 5: SELECT specific column + AND Operator:

```
SELECT `Id`, `Title`, `Release_Years`, `Writers`, `Actor1`, `Actor2`, `Actor3` FROM `film_locations` WHERE id=10 AND Release_Years>2000;
```

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Show all | Number of rows: 25 Filter rows: Search this table

Extra options

←T→	Id	Title	Release_Years	Writers	Actor1	Actor2	Actor3
Edit Copy Delete	10	The Great Gatsby	2013	Baz Luhrmann	Leonardo DiCaprio	Carey Mulligan	Tobey Maguire

Query 6: SELECT specific column + OR Operator:

```
SELECT `Id`, `Title`,Release_Years,`Directors`, `Writers`, `Actor1`, `Actor2`, `Actor3` FROM `film_locations` WHERE id =8 OR Release_Years<2000;
```

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Show all | Number of rows: 25 Filter rows: Search this table Sort by key: None

Extra options

←T→	Id	Title	Release_Years	Directors	Writers	Actor1	Actor2	Actor3
Edit Copy Delete	1	Forrest Gump	1994	Robert Zemeckis	Winston Groom	Tom Hanks	Robin Wright	Gary Sinise
Edit Copy Delete	2	The Matrix	1999	The Wachowskis	The Wachowskis	Keanu Reeves	Laurence Fishburne	Carrie-Anne Moss
Edit Copy Delete	4	The Great Escape	1963	John Sturges	James Clavell	Steve McQueen	James Garner	Richard Attenborough
Edit Copy Delete	5	Jurassic Park	1993	Steven Spielberg	Michael Crichton	Sam Neill	Laura Dern	Jeff Goldblum
Edit Copy Delete	6	The Shawshank Redemption	1994	Frank Darabont	Frank Darabont	Tim Robbins	Morgan Freeman	Bob Gunton
Edit Copy Delete	8	The Avengers	2012	Joss Whedon	Joss Whedon	Robert Downey Jr.	Chris Evans	Mark Ruffalo
Edit Copy Delete	11	The Lion King	1994	Roger Allers, Rob Minkoff	Irene Mecchi, Jonathan Roberts, Linda Woolverton	Matthew Broderick	Jeremy Irons	James Earl Jones
Edit Copy Delete	12	Titanic	1997	James Cameron	James Cameron	Leonardo DiCaprio	Kate Winslet	Billy Zane
Edit Copy Delete	13	The Godfather	1972	Francis Ford Coppola	Mario Puzo, Francis Ford Coppola	Marlon Brando	Al Pacino	James Caan
Edit Copy Delete	15	The Godfather	1972	Francis Ford Coppola	Mario Puzo, Francis Ford Coppola	Marlon Brando	Al Pacino	James Caan
Edit Copy Delete	17	Fight Club	1999	David Fincher	Chuck Palahniuk, Jim Uhls	Brad Pitt	Edward Norton	Helena Bonham Carte
Edit Copy Delete	25	Dilwale Dulhania Le Jayenge	1995	Aditya Chopra	Aditya Chopra	Shah Rukh Khan	Kajol	Amrish Puri
Edit Copy Delete	27	Aaina	1977	Nazrul Islam	Mohsin Shirazi	Shabnam	Nadeem Baig	Lehri
Edit Copy Delete	28	Dil Diya Dard Liya	1966	Hassan Tariq	Fayyaz Hashmi	Shabnam	Nadeem Baig	Lehri

Query 7: NOT Operator:

```
SELECT `Id`, `Title`, `Actor1`, `Actor2`, `Actor3` FROM `film_locations` WHERE NOT Actor1='Tom Hanks';
```

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

1 > >> | Show all | Number of rows: 25 Filter rows: Search this table Sort by key: None

Extra options

	Id	Title	Actor1	Actor2	Actor3
Edit Copy Delete	2	The Matrix	Keanu Reeves	Laurence Fishburne	Carrie-Anne Moss
Edit Copy Delete	3	The Dark Knight	Christian Bale	Heath Ledger	Aaron Eckhart
Edit Copy Delete	4	The Great Escape	Steve McQueen	James Garner	Richard Attenborough
Edit Copy Delete	5	Jurassic Park	Sam Neill	Laura Dern	Jeff Goldblum
Edit Copy Delete	6	The Shawshank Redemption	Tim Robbins	Morgan Freeman	Bob Gunton
Edit Copy Delete	7	Avatar	Sam Worthington	Zoe Saldana	Sigourney Weaver
Edit Copy Delete	8	The Avengers	Robert Downey Jr.	Chris Evans	Mark Ruffalo
Edit Copy Delete	9	Harry Potter and the Sorcerer's Stone	Daniel Radcliffe	Emma Watson	Rupert Grint
Edit Copy Delete	10	The Great Gatsby	Leonardo DiCaprio	Carey Mulligan	Tobey Maguire
Edit Copy Delete	11	The Lion King	Matthew Broderick	Jeremy Irons	James Earl Jones
Edit Copy Delete	12	Titanic	Leonardo DiCaprio	Kate Winslet	Billy Zane
Edit Copy Delete	13	The Godfather	Marlon Brando	Al Pacino	James Caan
Edit Copy Delete	14	Inception	Leonardo DiCaprio	Joseph Gordon-Levitt	Ellen Page
Edit Copy Delete	15	The Godfather	Marlon Brando	Al Pacino	James Caan
Edit Copy Delete	16	The Lord of the Rings: The Return of the King	Elijah Wood	Ian McKellen	Viggo Mortensen

Query 8: ALL columns + ORDER BY:

```
SELECT * FROM `film_locations` ORDER BY Release_Years;
```

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

1 > >> | Show all | Number of rows: 25 Filter rows: Search this table Sort by key: None

Extra options

	Id	Title	Release_Years	Locations	Fun_Facts	Production_Company	Distributors	Directors	Writers	Actor1	Actor2	Actor3
Edit Copy Delete	39	Do Bigha Zamin	1953	India	Do Bigha Zamin is considered one of the earliest e	Rajkamal Kalamandir	Rajkamal Kalamandir	Bimal Roy	Salil Choudhury	Balraj Sahni	Nirupa Roy	Ratan Kumar
Edit Copy Delete	34	Shree 420	1955	India	The film was the highest-grossing Indian film of 1	R. K. Films	R. K. Films	Raj Kapoor	Khawar Jamaal, Gyan Mukherjee	Raj Kapoor	Nargis	Nadira
Edit Copy Delete	31	Mother India	1957	India	Mother India was India's first submission for the	Mehboob Khan Productions	Mehboob Khan Productions	Mehboob Khan	Wajahat Mirza	Nargis	Sunil Dutt	Rajendra Kumar
Edit Copy Delete	32	Pyaasa	1957	India	The film was a major commercial failure upon relea	Guru Dutt Films	Guru Dutt Films	Guru Dutt	Abrar Alvi	Guru Dutt	Waheeda Rehman	Mala Sinha
Edit Copy Delete	30	Mughal-E-Azam	1960	India	The film took nearly 15 years to complete and was	Sterling Investment Corporation	Shapoorji Pallonji Group	K. Asif	K. Asif	Dilip Kumar	Madhubala	Prithviraj Kapoor
Edit Copy Delete	4	The Great Escape	1963	Germany, Switzerland	Based on a true story	United Artists	Metro-Goldwyn-Mayer	John Sturges	James Clavell	Steve McQueen	James Garner	Richard Attenborough
Edit Copy Delete	33	Guide	1965	India	The film is based on the novel of the	Navketan Films	Navketan Films	Vijay Anand	Tapan Sinha, Pearl S. Buck	Dev Anand	Waheeda Rehman	Kishore Sahu

Query 9: Specific columns + ORDER BY:

```
SELECT `Id`, `Title`, `Release_Years`, `Actor1`, `Actor2`, `Actor3` FROM `film_locations` ORDER BY Release_Years;
```

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

1 > >> | Show all | Number of rows: 25 Filter rows: Search this table Sort by key: None

Extra options

	Id	Title	Release_Years 1	Actor1	Actor2	Actor3
Edit Copy Delete	39	Do Bigha Zamin	1953	Balraj Sahni	Nirupa Roy	Ratan Kumar
Edit Copy Delete	34	Shree 420	1955	Raj Kapoor	Nargis	Nadira
Edit Copy Delete	31	Mother India	1957	Nargis	Sunil Dutt	Rajendra Kumar
Edit Copy Delete	32	Pyaasa	1957	Guru Dutt	Waheeda Rehman	Mala Sinha
Edit Copy Delete	30	Mughal-E-Azam	1960	Dilip Kumar	Madhubala	Prithviraj Kapoor
Edit Copy Delete	4	The Great Escape	1963	Steve McQueen	James Garner	Richard Attenborough
Edit Copy Delete	33	Guide	1965	Dev Anand	Waheeda Rehman	Kishore Sahu
Edit Copy Delete	28	Dil Diya Dard Liya	1966	Shabnam	Nadeem Baig	Lehri
Edit Copy Delete	36	Padosan	1968	Sunil Dutt	Saira Banu	Kishore Kumar
Edit Copy Delete	38	Mera Naam Joker	1970	Raj Kapoor	Simi Garewal	Padmini
Edit Copy Delete	35	Anand	1971	Rajesh Khanna	Amitabh Bachchan	Sumita Sanyal
Edit Copy Delete	13	The Godfather	1972	Marlon Brando	Al Pacino	James Caan
Edit Copy Delete	15	The Godfather	1972	Marlon Brando	Al Pacino	James Caan
Edit Copy Delete	37	Sholay	1975	Dharmendra	Sanjeev Kumar	Hema Malini
Edit Copy Delete	29	Donkey Raja	1976	Rangeela	Aasia	Ali Ejaz

Query 10: Specific columns + ORDER BY in DESC:

```
SELECT `Id`, `Title`, `Release_Years`, `Locations`, `Directors`, `Writers`, `Actor1`, `Actor2`, `Actor3` FROM `film_locations` ORDER BY Release_Years DESC;
```

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

1 > >> | Show all | Number of rows: 25 Filter rows: Search this table Sort by key: None

Extra options

	Id	Title	Release_Years 1	Locations	Directors	Writers	Actor1	Actor2	Actor3
Edit Copy Delete	18	Waada	2021	Lahore, Pakistan	Saima Waseem	Kamran Ahmed	Faysal Qureshi	Shaista Lodhi	Saboor Aly
Edit Copy Delete	19	Load Wedding	2018	Lahore, Pakistan	Nabeel Qureshi	Fizza Ali Meerza	Fahad Mustafa	Mehwish Hayat	Faiza Hasan
Edit Copy Delete	20	Punjab Nahi Jaungi	2017	Punjab, Pakistan	Nadeem Beyg	Khalil-ur-Rehman Qamar	Humayun Saeed	Mehwish Hayat	Urwa Hocane
Edit Copy Delete	21	Jawani Phir Nahi Ani	2015	Karachi, Pakistan	Nadeem Beyg	Vasay Chaudhry	Humayun Saeed	Hamza Ali Abbasi	Ahmed Ali Butt
Edit Copy Delete	26	Bahubali: The Beginning	2015	India	S. S. Rajamouli	K. V. Vijayendra Prasad	Prabhas	Rana Daggubati	Anushka Shetty
Edit Copy Delete	22	Na Maloom Afraad	2014	Karachi, Pakistan	Nabeel Qureshi	Nabeel Qureshi	Fahad Mustafa	Javed Sheikh	Mohsin Abbas Haider
Edit Copy Delete	10	The Great Gatsby	2013	Long Island, USA	Baz Luhrmann	Baz Luhrmann	Leonardo DiCaprio	Carey Mulligan	Tobey Maguire
Edit Copy Delete	8	The Avengers	2012	New York City	Joss Whedon	Joss Whedon	Robert Downey Jr.	Chris Evans	Mark Ruffalo
Edit Copy Delete	14	Inception	2010	Worldwide	Christopher Nolan	Christopher Nolan	Leonardo DiCaprio	Joseph Gordon-Levitt	Ellen Page
Edit Copy Delete	7	Avatar	2009	Pandora	James Cameron	James Cameron	Sam	Zoe Saldana	Sigourney

● LAB TASK 3:

1. Count * with condition

```
SELECT COUNT(*)FROM film_locations WHERE Release_Years>2000;
```

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Extra options

COUNT(*)
16

2. Count(specific column)+condition

```
SELECT COUNT(Locations) FROM film_locations WHERE Locations='Pakistan';
```

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Extra options

COUNT(Locations)
3

3. Like '---character%':

```
SELECT Title,Release_Years,Actor2 FROM film_locations WHERE Actor2 LIKE'___re%';
```

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Show all | Number of rows: 25 Filter rows: Search this table

Extra options

←T→	Title	Release_Years	Actor2
Edit Copy Delete	The Matrix	1999	Laurence Fishburne

4. (specific Columns)+Like‘character%’:

```
SELECT Title,Release_Years,Actor1 FROM film_locations WHERE Actor1 LIKE 'a%';
```

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Show all | Number of rows: 25 Filter rows: Search this table Sort by key: None

Extra options

←T→	Title	Release_Years	Actor1
Edit Copy Delete	3 Idiots	2009	Aamir Khan
Edit Copy Delete	Lagaan	2001	Aamir Khan
Edit Copy Delete	Kabhi Khushi Kabhie Gham	2001	Amitabh Bachchan

5. SELECT * +Like‘character%’:

```
SELECT * FROM film_locations WHERE Actor1 LIKE 'a%';
```

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Show all | Number of rows: 25 Filter rows: Search this table Sort by key: None

Extra options

←T→	Id	Title	Release_Years	Locations	Fun_Facts	Production_Company	Distributors	Directors	Writers	Actor1	Actor2	Actor3
Edit Copy Delete	23	3 Idiots	2009	India	Based on Chetan Bhagat's novel "Five Point Someone	Vinod Chopra Films	Reliance BIG Pictures	Rajkumar Hirani	Rajkumar Hirani, Abhijat Joshi	Aamir Khan	Kareena Kapoor	R. Madhavan
Edit Copy Delete	24	Lagaan	2001	India	The film was nominated for an Academy Award for Be	Aamir Khan Productions	Sony Pictures Releasing	Ashutosh Gowariker	Ashutosh Gowariker	Aamir Khan	Gracy Singh	Rachel Shelley
Edit Copy Delete	40	Kabhi Khushi Kabhie Gham	2001	India	The film features an ensemble cast and was a major	Dharma Productions	Yash Raj Films	Karan Johar	Karan Johar	Amitabh Bachchan	Shah Rukh Khan	Kajol

6. (specific Columns)+Like‘%character%’:

```
SELECT Writers,Title,Actor3 FROM film_locations WHERE Actor3 LIKE '%i%';
```

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Show all | Number of rows: 25 Filter rows: Search this table Sort by key: None

Extra options

←T→	Writers	Title	Actor3
Edit Copy Delete	Winston Groom	Forrest Gump	Gary Sinise
Edit Copy Delete	The Wachowskis	The Matrix	Carrie-Anne Moss
Edit Copy Delete	James Clavell	The Great Escape	Richard Attenborough
Edit Copy Delete	James Cameron	Avatar	Sigourney Weaver
Edit Copy Delete	J.K. Rowling	Harry Potter and the Sorcerer's Stone	Rupert Grint
Edit Copy Delete	Baz Luhrmann	The Great Gatsby	Tobey Maguire
Edit Copy Delete	James Cameron	Titanic	Billy Zane
Edit Copy Delete	Fran Walsh, Philippa Boyens, Peter Jackson	The Lord of the Rings: The Return of the King	Viggo Mortensen

7. SUM of Integer Column:

```
SELECT SUM(Release_Years) from film_locations;
```

Show all | Number of rows: 25 Filter rows: Sea

Extra options

SUM(Release_Years)
79589

8. AVG Condition:

```
SELECT AVG(Release_Years) FROM film_locations;
```

Show all | Number of rows: 25 Filter rows

Extra options

AVG(Release_Years)
1989.7250

9. MIN Condition:

```
SELECT MIN(Release_Years) FROM film_locations;
```

Show all | Number of rows: 25 Filter rows:

Extra options

MIN(Release_Years)
1953

10. MAX Condition:

```
SELECT MAX(Release_Years) FROM film_locations;
```

Show all | Number of rows: 25 Filter row

Extra options

MAX(Release_Years)
2021

11. Distinct Condition:

```
SELECT DISTINCT (Locations) from film_locations;
```

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Show all | Number of rows: 25 Filter rows: Search this table Sort by key:

Extra options

←T→			Locations
Edit	Copy	Delete	Alabama, USA
Edit	Copy	Delete	Australia, USA
Edit	Copy	Delete	Chicago, USA
Edit	Copy	Delete	Germany, Switzerland
Edit	Copy	Delete	Isla Nublar
Edit	Copy	Delete	Ohio, USA
Edit	Copy	Delete	Pandora
Edit	Copy	Delete	New York City
Edit	Copy	Delete	Hogwarts School of Witchcraft and Wizardry
Edit	Copy	Delete	Long Island, USA
Edit	Copy	Delete	Pride Lands, Africa
Edit	Copy	Delete	North Atlantic Ocean
Edit	Copy	Delete	New York City, USA
Edit	Copy	Delete	Worldwide
Edit	Copy	Delete	New Zealand

12. Count+Distinct Condition

```
SELECT COUNT(DISTINCT Locations) from film_locations;
```

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Extra options

COUNT(DISTINCT Locations)
22

13. Top Number *:

```
select top 4 * from studentinfo;
```

esults Messages

Registration_no	s_name	s_department	s_marks	s_section	s_cgpa	s_city
66	Ahmad Munir	Civil Engineering	75	4-B	3.64	Lahore
88	Amna Zahid	Mechanical Engineering	90	4-B	3.96	Sahiwal
99	Quraltulain	Computer Science	77	4-B	3.68	Okara
111	Horia Ali	FSN	66	4-A	2.9	Pakpattan

14. TOP + Order By:

```
select top 6 * from studentinfo order by Registration_no;
```

18 % Results Messages

	Registration_no	s_name	s_department	s_marks	s_section	s_cgpa	s_city
1	66	Ahmad Munir	Civil Engineering	75	4-B	3.64	Lahore
2	88	Amna Zahid	Mechanical Engineering	90	4-B	3.96	Sahiwal
3	99	Quraltulain	Computer Science	77	4-B	3.68	Okara
4	111	Horia Ali	FSN	66	4-A	2.9	Pakpattan
5	123	Ayesha Mubeen	Computer Science	77	5-C	3.2	Sahiwal
6	127	Hamza	Software Engineering	79	5-C	3.4	Sahiwal

● LAB TASK 4:

1. Select *:

```
select * from studentinfo;
```

esults | Messages

Registration_no	s_name	s_department	s_marks	s_section	s_cgpa	s_city
66	Ahmad Munir	Civil Engineering	75	4-B	3.64	Lahore
88	Amna Zahid	Mechanical Engineering	90	4-B	3.96	Sahiwal
99	Quraltulain	Computer Science	77	4-B	3.68	Okara
111	Horia Ali	FSN	66	4-A	2.9	Pakpattan
123	Ayesha Mubeen	Computer Science	77	5-C	3.2	Sahiwal
127	Hamza	Software Engineering	79	5-C	3.4	Sahiwal
177	Nimra	BioChemistry	66	5-D	2.3	Lahore
191	Pareeshe	Mathematics	89	4-B	3.9	Islamabad
203	Sana shaheen	Computer Science	80	4-B	3.87	Pakpattan
206	Amna Khadim	Computer Science	79	4-B	3.77	Arifwala

2. Not Like (Condition):

```
select * from studentinfo where s_name not like '__r%';
```

sults | Messages

Registration_no	s_name	s_department	s_marks	s_section	s_cgpa	s_city
66	Ahmad Munir	Civil Engineering	75	4-B	3.64	Lahore
88	Amna Zahid	Mechanical Engineering	90	4-B	3.96	Sahiwal
123	Ayesha Mubeen	Computer Science	77	5-C	3.2	Sahiwal
127	Hamza	Software Engineering	79	5-C	3.4	Sahiwal
177	Nimra	BioChemistry	66	5-D	2.3	Lahore
203	Sana shaheen	Computer Science	80	4-B	3.87	Pakpattan
206	Amna Khadim	Computer Science	79	4-B	3.77	Arifwala

3. MIN Marks From studentinfo tabel:

```
select min(s_marks) from studentinfo;
```

Results | Messages

(No column name)
66

4. MIN + AS Condition:

```
select min(s_marks) as minimum_marks from studentinfo;
```

Results | Messages

	minimum_marks
1	66

5. Range (Between Condition):

```
select s_name,s_marks,s_city from studentinfo where s_marks between 60 and 70;
```

Results | Messages

s_name	s_marks	s_city
Horia Ali	66	Pakpattan
Nimra	66	Lahore

6. CONCAT Condition(without spaces):

```
select s_name,
concat(s_department,s_marks,s_section,s_cgpa,s_city)
from studentinfo;
```

2 %

Results | Messages

	s_name	(No column name)
	Ahmad Munir	Civil Engineering754-B3.64Lahore
	Amna Zahid	Mechanical Engineering904-B3.96Sahiwal
	Quraltulain	Computer Science774-B3.68Okara
	Horia Ali	FSN664-A2.9Pakpattan
	Ayesha Mubeen	Computer Science775-C3.2Sahiwal
	Hamza	Software Engineering795-C3.4Sahiwal
	Nimra	BioChemistry665-D2.3Lahore
	Pareeshe	Mathematics894-B3.9Islamabad
	Sana shaheen	Computer Science804-B3.87Pakpattan
0	Amna Khadim	Computer Science794-B3.77Arifwala

7. CONCAT Condition(with Spaces):

```
SELECT s_name,
       CONCAT(s_department, '   ', s_marks, '   ', s_section, '   ', s_cgpa, '   ', s_city)
       AS concatenated_info
FROM studentinfo;
```

3 %

Results | Messages

	s_name	concatenated_info
	Ahmad Munir	Civil Engineering 75 4-B 3.64 Lahore
	Amna Zahid	Mechanical Engineering 90 4-B 3.96 Sahiwal
	Quraltulain	Computer Science 77 4-B 3.68 Okara
	Horia Ali	FSN 66 4-A 2.9 Pakpattan
	Ayesha Mubeen	Computer Science 77 5-C 3.2 Sahiwal
	Hamza	Software Engineering 79 5-C 3.4 Sahiwal
	Nimra	BioChemistry 66 5-D 2.3 Lahore
	Pareeshe	Mathematics 89 4-B 3.9 Islamabad
	Sana shaheen	Computer Science 80 4-B 3.87 Pakpattan
0	Amna Khadim	Computer Science 79 4-B 3.77 Arifwala

8. IN for Multiple Clauses:

```
select *from studentinfo where s_city in('Sahiwal','Okara','Pakpattan');
```

sults | Messages

Registration_no	s_name	s_department	s_marks	s_section	s_cgpa	s_city
88	Amna Zahid	Mechanical Engineering	90	4-B	3.96	Sahiwal
99	Quraltulain	Computer Science	77	4-B	3.68	Okara
111	Horia Ali	FSN	66	4-A	2.9	Pakpattan
123	Ayesha Mubeen	Computer Science	77	5-C	3.2	Sahiwal
127	Hamza	Software Engineering	79	5-C	3.4	Sahiwal
203	Sana shaheen	Computer Science	80	4-B	3.87	Pakpattan

9. Having + COUNT +AS:

```
SELECT COUNT(Registration_no) AS registration_count,s_city
FROM studentinfo
GROUP BY s_city
HAVING COUNT(Registration_no) > 2;
```

sults | Messages

registration_count	s_city
3	Sahiwal

● LAB TASK 5:

1. Create Table with name Class1:

```sql
create table class1(id int identity(1,1) primary key,
c_name varchar(40),c_department varchar(40),
c_students int, c_degree varchar(30));
```

Messages

```
Commands completed successfully.

Completion time: 2024-03-27T17:51:05.8187831+05:00
```

2. INSERT Data display(SELECT *):

```sql
select * from class1;
```

sults | Messages

id	c_name	c_department	c_students	c_degree
1	Fa22_BCS	CS	63	BSCS
2	Fa23_BSE	SE	77	BSSE
3	Fa24_BDS	Data science	67	BSDS
4	Fa20_BAI	AI	80	BSAI

3. Delete Query:

```
select * from class1;

delete from class1 where id=2;
```

sults | Messages

id	c_name	c_department	c_students	c_degree
1	Fa22_BCS	CS	63	BSCS
3	Fa24_BDS	Data science	67	BSDS
4	Fa20_BAI	AI	80	BSAI

4. Update Query:

```
update class1 set c_name='SP22_BCS',c_department='AI',
c_students=74,c_degree='BSAI' where id=4;
select *from class1;
```

35 % | Results | Messages

	id	c_name	c_department	c_students	c_degree
1	1	Fa22_BCS	CS	63	BSCS
2	3	Fa24_BDS	Data science	67	BSDS
3	4	SP22_BCS	AI	74	BSAI

ADD New Column In Existing Table:

```
alter table class1
add c_marks int;
select * from class1;
```

sults | Messages

id	c_name	c_department	c_students	c_degree	c_marks
1	Fa22_BCS	CS	63	BSCS	NULL
3	Fa24_BDS	Data science	67	BSDS	NULL
4	SP22_BCS	AI	74	BSAI	NULL

5. ADD Data in new Column:

```
update class1 set c_marks=80;
select * from class1;
```

135 % | Results | Messages

	id	c_name	c_department	c_students	c_degree	c_marks
1	1	Fa22_BCS	CS	63	BSCS	80
2	3	Fa24_BDS	Data science	67	BSDS	80
3	4	SP22_BCS	AI	74	BSAI	80

6. Update + Case Query:

```
update class1 set c_marks= case id when 1 then 90
when 3 then 80
when 4 then 70
else c_marks end where id in (1,3,4);
select * from class1;
```

% | Results | Messages

id	c_name	c_department	c_students	c_degree	c_marks
1	Fa22_BCS	CS	63	BSCS	90
3	Fa24_BDS	Data science	67	BSDS	80
4	SP22_BCS	AI	74	BSAI	70