

18 April 2025
10:40

```
CREATE TABLE EMP (  
-> EID INT NOT NULL PRIMARY KEY, FNAME VARCHAR(20) NOT NULL,  
-> LNAME VARCHAR(20) NOT NULL,  
-> DOB DATE NOT NULL,  
-> GENDER ENUM('m', 'f', 'o') NOT NULL,  
-> JOB VARCHAR(20) NOT NULL,  
-> MGR INT NULL,  
-> DOJ DATE NOT NULL,  
-> SAL DECIMAL(10, 2) NOT NULL,  
-> COMM DECIMAL(10, 2) NULL,  
-> DNO INT NULL,  
-> CID INT NULL  
-> );
```

```
INSERT INTO EMP VALUES (1701, 'RAHUL', 'MUKARJEE', '1991-02-19', 'm', 'MANAGER', 1702, '2017-04-17', 100000.00, NULL, 111, NULL);
```

```
INSERT INTO EMP VALUES (1702, 'SAMEER', 'KHAN', '1995-04-20', 'm', 'MANAGER', 2001, '2017-07-07', 90000.00, NULL, 110, NULL);
```

```
INSERT INTO EMP VALUES (1801, 'JAHNAVI', 'NAIK', '1996-04-11', 'f', 'DISPATCHER', 1702, '2020-02-15', 450000.00, 1000.00, 110, NULL);
```

```
INSERT INTO EMP VALUES (1901, 'SHIVANI', 'RAI', '1998-11-07', 'f', 'TESTER', 2201, '2019-12-12', 450000.00, NULL, 113, 502);
```

```
INSERT INTO EMP VALUES (1902, 'ABHIJIT', 'GOWDA', '1997-12-25', 'm', 'DISPATCHER', 1702, '2019-02-28', 50000.00, NULL, 110, 505);
```

```
INSERT INTO EMP VALUES (1903, 'KARAN', 'BHAT', '1997-12-26', 'm', 'SALESMAN', 1701, '2019-12-26', 45000.00, NULL, 111, 506);
```

```
INSERT INTO EMP VALUES (2001, 'MURALI', 'KRISHNAN', '1998-06-08', 'm', 'DISPATCHER', 2201, '2020-03-15', 45000.00, 1000.00, 110, NULL);
```

```
INSERT INTO EMP VALUES (2002, 'DHARANI', 'PATIL', '1998-11-10', 'f', 'DEVELOPER', 2001, '2021-06-20', 30000.00, 3000.00, 113, NULL);
```

```
INSERT INTO EMP VALUES (2101, 'RASHMI', 'GONDA', '1995-10-03', 'f', 'SALESMAN', 1701, '2021-01-02', 45000.00, 3000.00, 111, NULL);
```

```
INSERT INTO EMP VALUES (2102, 'FARIYA', 'TAJ', '1999-01-03', 'f', 'DEVELOPER', 2001, '2021-03-01', 32000.00, 3600.00, 113, NULL);
```

```
INSERT INTO EMP VALUES (2103, 'PRIYA', 'SHETTY', '1998-03-20', 'f', 'ACCOUNTANT', 2001, '2021-05-01', 32000.00, 3600.00, 112, NULL);
```

```
INSERT INTO EMP VALUES (2104, 'AMAN', 'RAI', '1998-08-15', 'm', 'SALESMAN', 1701, '2021-12-26', 40000.00, NULL, 111, NULL);
```

```
INSERT INTO EMP VALUES (2201, 'KIRAN', 'RAJ', '1999-09-21', 'm', 'ACCOUNTANT', NULL, '2022-08-28', 30000.00, 3600.00, 115, 503);
```

Another Table

```
CREATE TABLE DEPT (  
-> DNO INT NOT NULL PRIMARY KEY,  
-> DNAME VARCHAR(45) NOT NULL,  
-> LID INT  
-> );
```

Query OK, 0 rows affected (0.05 sec)

```
mysql> desc dept;
```

Field	Type	Null	Key	Default	Extra
DNO	int	NO	PRI	NULL	
DNAME	varchar(45)	NO		NULL	
LID	int	YES		NULL	

3 rows in set (0.00 sec)

```
mysql> CREATE TABLE LOCATION (  
-> LID INT NOT NULL PRIMARY KEY,  
-> LOCATION VARCHAR(45) NOT NULL,  
-> CITY VARCHAR(45) NOT NULL,  
-> STATE VARCHAR(45) NOT NULL  
-> );
```

Query OK, 0 rows affected (0.06 sec)

```
mysql> desc location;
```

Field	Type	Null	Key	Default	Extra
LID	int	NO	PRI	NULL	
LOCATION	varchar(45)	NO		NULL	
CITY	varchar(45)	NO		NULL	
STATE	varchar(45)	NO		NULL	

4 rows in set (0.00 sec)

```
mysql> CREATE TABLE CUSTOMER (  
-> CID INT NOT NULL PRIMARY KEY,  
-> FIRST_NAME VARCHAR(45) NOT NULL,
```

```
-> LAST_NAME VARCHAR(45) NOT NULL,
-> LID INT,
-> ORDER_ID INT,
-> PRODUCT_ID INT
-> );
```

Query OK, 0 rows affected (0.07 sec)

mysql>

```
CREATE TABLE PRODUCT (
-> PRODUCT_ID INT NOT NULL PRIMARY KEY,
-> PNAME VARCHAR(45) NOT NULL,
-> PRICE DECIMAL(12, 2) NOT NULL
-> );
CREATE TABLE ORDERS (
-> ORDER_ID INT NOT NULL PRIMARY KEY,
-> PRODUCT_ID INT NOT NULL,
-> ORDER_DATE DATE NOT NULL,
-> DELIVERY_DATE DATE NOT NULL,
-> EID INT NOT NULL
-> );
```

INSERT INTO DEPT VALUES

```
-> (110, 'DELIVERY', 2),
-> (111, 'MARKETING', 1),
-> (112, 'ACCOUNTING', 4),
-> (113, 'TECHNICAL', 10),
-> (114, 'HR', 12);
```

Query OK, 5 rows affected (0.01 sec)

Records: 5 Duplicates: 0 Warnings: 0

mysql> select * from dept;

```
+----+-----+-----+
| DNO | DNAME   | LID |
+----+-----+-----+
| 110 | DELIVERY | 2   |
| 111 | MARKETING | 1   |
| 112 | ACCOUNTING | 4   |
| 113 | TECHNICAL | 10  |
| 114 | HR       | 12  |
+----+-----+-----+
```

5 rows in set (0.00 sec)

mysql> INSERT INTO LOCATION VALUES

```
-> (1, 'VIJAYANAGAR', 'BANGALORE', 'KARNATAKA'),
-> (2, 'HEBBAL', 'MYSORE', 'KARNATAKA'),
-> (3, 'RAJAJINAGAR', 'BANGALORE', 'KARNATAKA'),
-> (4, 'KORMANGALA', 'BANGALORE', 'KARNATAKA'),
```

```

-> (5, 'KUVEMPUNAGAR', 'MYSORE', 'KARNATAKA'),
-> (6, 'AMEERPET', 'HYDERABAD', 'TELANGANA'),
-> (7, 'RAIDURG', 'HYDERABAD', 'TELANGANA'),
-> (8, 'DILSUKHNAGAR', 'HYDERABAD', 'TELANGANA'),
-> (9, 'MARINA', 'CHENNAI', 'TAMIL_NADU'),
-> (10, 'ANNA_NAGAR', 'CHENNAI', 'TAMIL_NADU'),
-> (11, 'SAIDAPET', 'CHENNAI', 'TAMIL_NADU'),
-> (12, 'ANDHERI', 'MUMBAI', 'MAHARASHTRA'),
-> (13, 'JUHU', 'MUMBAI', 'MAHARASHTRA'),
-> (14, 'GOREGAON', 'MUMBAI', 'MAHARASHTRA'),
-> (15, 'BORIVALI', 'MUMBAI', 'MAHARASHTRA');

```

Query OK, 15 rows affected (0.01 sec)

Records: 15 Duplicates: 0 Warnings: 0

INSERT INTO CUSTOMER VALUES

```

-> (501, 'SALMAN', 'KHAN', 12, 1201, 809),
-> (502, 'SHIVANI', 'RAI', 1, NULL, NULL),
-> (503, 'KIRAN', 'RAJ', 2, NULL, NULL),
-> (504, 'VIHAN', 'PRASAD', 7, NULL, NULL),
-> (505, 'ABHIJIT', 'GOWDA', 11, 1111, 801),
-> (506, 'KARAN', 'BHAT', 9, NULL, NULL),
-> (507, 'HEMA', 'SHETTY', 3, 1127, 805),
-> (508, 'PUNITH', 'GOWDA', 4, NULL, NULL),
-> (509, 'PATRICK', 'JOHNSON', 13, NULL, NULL),
-> (510, 'JEEVAN', 'RAJ', 10, NULL, NULL),
-> (511, 'SELVA', 'MANI', 12, 1773, 802),
-> (512, 'IRFAN', 'MOHAMMED', 5, NULL, NULL);

```

Query OK, 12 rows affected (0.17 sec)

Records: 12 Duplicates: 0 Warnings: 0

INSERT INTO PRODUCT VALUES

```

-> (801, 'LIPSTICK', 2000.00),
-> (802, 'CHAIN', 20000.00),
-> (803, 'WATCH', 15000.00),
-> (804, 'EAR PODS', 1500.00),
-> (805, 'OLDMONK', 1000.00),
-> (806, 'IPHONE', 1300.00),
-> (807, 'WALLET', 2500.00),
-> (808, 'PTron', 800.00),
-> (809, 'TOWEL', 1750.00);

```

Query OK, 9 rows affected (0.17 sec)

Records: 9 Duplicates: 0 Warnings: 0

mysql> INSERT INTO ORDERS VALUES

```

-> (1111, 801, '2022-11-10', '2022-11-12', 1801),
-> (1127, 805, '2022-11-28', '2022-12-01', 1902),
-> (1201, 809, '2022-12-05', '2022-12-08', 2001),
-> (1773, 802, '2022-12-19', '2022-12-22', 2201);

```

Query OK, 4 rows affected (0.07 sec)

Records: 4 Duplicates: 0 Warnings: 0

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Wqtd emp first_name and last_name from emp table

```
SELECT FNAME,LNAME  
-> FROM EMP;
```

```
+-----+-----+  
| FNAME | LNAME |  
+-----+-----+  
| RAHUL | MUKARJEE |  
| SAMEER | KHAN |  
| JAHNAVI | NAIK |  
| SHIVANI | RAI |  
| ABHIJIT | GOWDA |  
| KARAN | BHAT |  
| MURALI | KRISHNAN |  
| DHARANI | PATIL |  
| RASHMI | GONDA |  
| FARIYA | TAJ |  
| PRIYA | SHETTY |  
| AMAN | RAI |  
| KIRAN | RAJ |  
+-----+-----+
```

13 rows in set (0.00 sec)

WQTD EMP FNMAE,DOB, AND JOB FROM EMP???????????????

```
mysql> SELECT FNAME,DOB,JOB  
-> FROM EMP;
```

```
+-----+-----+-----+  
| FNAME | DOB | JOB |  
+-----+-----+-----+  
| RAHUL | 1991-02-19 | MANAGER |  
| SAMEER | 1995-04-20 | MANAGER |  
| JAHNAVI | 1996-04-11 | DISPATCHER |  
| SHIVANI | 1998-11-07 | TESTER |  
| ABHIJIT | 1997-12-25 | DISPATCHER |  
| KARAN | 1997-12-26 | SALESMAN |  
| MURALI | 1998-06-08 | DISPATCHER |  
| DHARANI | 1998-11-10 | DEVELOPER |  
| RASHMI | 1995-10-03 | SALESMAN |  
| FARIYA | 1999-01-03 | DEVELOPER |  
| PRIYA | 1998-03-20 | ACCOUNTANT |  
| AMAN | 1998-08-15 | SALESMAN |  
| KIRAN | 1999-09-21 | ACCOUNTANT |  
+-----+-----+-----+
```

13 rows in set (0.00 sec)

WQTD EMP FNMAE,DOB,MGR SAL,DNO FROM EMP?????????????

```
SELECT FNAME,DOB,MGR,SAL,DNO
-> FROM EMP;
```

```
+-----+-----+-----+-----+-----+
| FNAME | DOB      | MGR | SAL      | DNO |
+-----+-----+-----+-----+-----+
| RAHUL  | 1991-02-19 | 1702 | 100000.00 | 111 |
| SAMEER | 1995-04-20 | 2001 | 90000.00  | 110 |
| JAHNAVI | 1996-04-11 | 1702 | 450000.00 | 110 |
| SHIVANI | 1998-11-07 | 2201 | 450000.00 | 113 |
| ABHIJIT | 1997-12-25 | 1702 | 50000.00  | 110 |
| KARAN  | 1997-12-26 | 1701 | 45000.00  | 111 |
| MURALI | 1998-06-08 | 2201 | 45000.00  | 110 |
| DHARANI | 1998-11-10 | 2001 | 30000.00  | 113 |
| RASHMI | 1995-10-03 | 1701 | 45000.00  | 111 |
| FARIYA | 1999-01-03 | 2001 | 32000.00  | 113 |
| PRIYA  | 1998-03-20 | 2001 | 32000.00  | 112 |
| AMAN   | 1998-08-15 | 1701 | 40000.00  | 111 |
| KIRAN  | 1999-09-21 | NULL | 30000.00  | 115 |
+-----+-----+-----+-----+-----+
13 rows in set (0.00 sec)
```

ALL THE DETAILS FROM THE EMP TABLE

```
SELECT * FROM EMP;
```

```
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
----+
| EID | FNAME | LNAME | DOB      | GENDER | JOB      | MGR | DOJ      | SAL      |
COMM | DNO | CID |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
----+
| 1701 | RAHUL | MUKARJEE | 1991-02-19 | m      | MANAGER  | 1702 | 2017-04-17 |
100000.00 | NULL | 111 | NULL |
| 1702 | SAMEER | KHAN     | 1995-04-20 | m      | MANAGER  | 2001 | 2017-07-07 |
90000.00 | NULL | 110 | NULL |
| 1801 | JAHNAVI | NAIK    | 1996-04-11 | f      | DISPATCHER | 1702 | 2020-02-15 |
450000.00 | 1000.00 | 110 | NULL |
| 1901 | SHIVANI | RAI      | 1998-11-07 | f      | TESTER   | 2201 | 2019-12-12 | 450000.00 |
NULL | 113 | 502 |
| 1902 | ABHIJIT | GOWDA    | 1997-12-25 | m      | DISPATCHER | 1702 | 2019-02-28 |
50000.00 | NULL | 110 | 505 |
| 1903 | KARAN  | BHAT     | 1997-12-26 | m      | SALESMAN | 1701 | 2019-12-26 |
45000.00 | NULL | 111 | 506 |
| 2001 | MURALI | KRISHNAN | 1998-06-08 | m      | DISPATCHER | 2201 | 2020-03-15 |
45000.00 | 1000.00 | 110 | NULL |
| 2002 | DHARANI | PATIL    | 1998-11-10 | f      | DEVELOPER | 2001 | 2021-06-20 |
30000.00 | 3000.00 | 113 | NULL |
| 2101 | RASHMI | GONDA    | 1995-10-03 | f      | SALESMAN | 1701 | 2021-01-02 |
45000.00 | 3000.00 | 111 | NULL |
| 2102 | FARIYA | TAJ      | 1999-01-03 | f      | DEVELOPER | 2001 | 2021-03-01 | 32000.00 |
3600.00 | 113 | NULL |
```

```
| 2103 | PRIYA | SHETTY | 1998-03-20 | f | ACCOUNTANT | 2001 | 2021-05-01 |
32000.00 | 3600.00 | 112 | NULL |
| 2104 | AMAN | RAI | 1998-08-15 | m | SALESMAN | 1701 | 2021-12-26 |
40000.00 | NULL | 111 | NULL |
| 2201 | KIRAN | RAJ | 1999-09-21 | m | ACCOUNTANT | NULL | 2022-08-28 |
30000.00 | 3600.00 | 115 | 503 |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
----+
13 rows in set (0.00 sec)
```

mysql>

WQ FNAME,JOB, ANNUAL SAL????????????????????????????????

```
SELECT FNAME,JOB,SAL*12
-> FROM EMP;
```

```
+-----+-----+-----+
| FNAME | JOB | SAL*12 |
+-----+-----+-----+
| RAHUL | MANAGER | 1200000.00 |
| SAMEER | MANAGER | 1080000.00 |
| JAHNAVI | DISPATCHER | 5400000.00 |
| SHIVANI | TESTER | 5400000.00 |
| ABHIJIT | DISPATCHER | 600000.00 |
| KARAN | SALESMAN | 540000.00 |
| MURALI | DISPATCHER | 540000.00 |
| DHARANI | DEVELOPER | 360000.00 |
| RASHMI | SALESMAN | 540000.00 |
| FARIYA | DEVELOPER | 384000.00 |
| PRIYA | ACCOUNTANT | 384000.00 |
| AMAN | SALESMAN | 480000.00 |
| KIRAN | ACCOUNTANT | 360000.00 |
+-----+-----+-----+
13 rows in set (0.00 sec)
```

WQTD EMP FNAME,DATE OF JOINING, AND SAL WITH 20000 BONUS????????

```
mysql> SELECT FNAME,DOJ,SAL+20000
-> FROM EMP;
```

```
+-----+-----+-----+
| FNAME | DOJ | SAL+20000 |
+-----+-----+-----+
| RAHUL | 2017-04-17 | 120000.00 |
| SAMEER | 2017-07-07 | 110000.00 |
| JAHNAVI | 2020-02-15 | 470000.00 |
| SHIVANI | 2019-12-12 | 470000.00 |
| ABHIJIT | 2019-02-28 | 70000.00 |
| KARAN | 2019-12-26 | 65000.00 |
| MURALI | 2020-03-15 | 65000.00 |
| DHARANI | 2021-06-20 | 50000.00 |
```

RASHMI 2021-01-02 65000.00
FARIYA 2021-03-01 52000.00
PRIYA 2021-05-01 52000.00
AMAN 2021-12-26 60000.00
KIRAN 2022-08-28 50000.00

+-----+-----+-----+

13 rows in set (0.00 sec)

WQT DETAILS OF THE EMPs ALONG WITH ANNUAL COMMISION??

SELECT *, COMM*12

-> FROM EMP;

+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
 ----+-----+

EID FNAME LNAME DOB GENDER JOB MGR DOJ SAL
COMM DNO CID COMM*12

+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
 ----+-----+

1701 RAHUL MUKARJEE 1991-02-19 m MANAGER 1702 2017-04-17 100000.00 NULL 111 NULL NULL
1702 SAMEER KHAN 1995-04-20 m MANAGER 2001 2017-07-07 90000.00 NULL 110 NULL NULL
1801 JAHNAVI NAIK 1996-04-11 f DISPATCHER 1702 2020-02-15 450000.00 1000.00 110 NULL 12000.00
1901 SHIVANI RAI 1998-11-07 f TESTER 2201 2019-12-12 450000.00 NULL 113 502 NULL
1902 ABHIJIT GOWDA 1997-12-25 m DISPATCHER 1702 2019-02-28 50000.00 NULL 110 505 NULL
1903 KARAN BHAT 1997-12-26 m SALESMAN 1701 2019-12-26 45000.00 NULL 111 506 NULL
2001 MURALI KRISHNAN 1998-06-08 m DISPATCHER 2201 2020-03-15 45000.00 1000.00 110 NULL 12000.00
2002 DHARANI PATIL 1998-11-10 f DEVELOPER 2001 2021-06-20 30000.00 3000.00 113 NULL 36000.00
2101 RASHMI GONDA 1995-10-03 f SALESMAN 1701 2021-01-02 45000.00 3000.00 111 NULL 36000.00
2102 FARIYA TAJ 1999-01-03 f DEVELOPER 2001 2021-03-01 32000.00 3600.00 113 NULL 43200.00
2103 PRIYA SHETTY 1998-03-20 f ACCOUNTANT 2001 2021-05-01 32000.00 3600.00 112 NULL 43200.00
2104 AMAN RAI 1998-08-15 m SALESMAN 1701 2021-12-26 40000.00 NULL 111 NULL NULL
2201 KIRAN RAJ 1999-09-21 m ACCOUNTANT NULL 2022-08-28 30000.00 3600.00 115 503 43200.00

+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
 ----+-----+

13 rows in set (0.00 sec)

WQTD EMP FNAME ,LNAME,JOB AND SAL WITH 10% HIKE????

```
mysql> SELECT FNAME,LNAME,JOB,SAL+(SAL*10/100)
-> FROM EMP;
```

```
+-----+-----+-----+-----+
| FNAME | LNAME | JOB   | SAL+(SAL*10/100) |
+-----+-----+-----+-----+
| RAHUL | MUKARJEE | MANAGER | 110000.000000 |
| SAMEER | KHAN | MANAGER | 99000.000000 |
| JAHNAVI | NAIK | DISPATCHER | 495000.000000 |
| SHIVANI | RAI | TESTER | 495000.000000 |
| ABHIJIT | GOWDA | DISPATCHER | 55000.000000 |
| KARAN | BHAT | SALESMAN | 49500.000000 |
| MURALI | KRISHNAN | DISPATCHER | 49500.000000 |
| DHARANI | PATIL | DEVELOPER | 33000.000000 |
| RASHMI | GONDA | SALESMAN | 49500.000000 |
| FARIYA | TAJ | DEVELOPER | 35200.000000 |
| PRIYA | SHETTY | ACCOUNTANT | 35200.000000 |
| AMAN | RAI | SALESMAN | 44000.000000 |
| KIRAN | RAJ | ACCOUNTANT | 33000.000000 |
+-----+-----+-----+-----+
13 rows in set (0.00 sec)
```

WQTD EMP FNAME,LNAME,DNO,MGR,SAL WITH 5% DEDUVTION????????

```
SELECT FNAME,LNAME,DNO,MGR,SAL-(SAL*5/100)
-> FROM EMP;
```

```
+-----+-----+-----+-----+
| FNAME | LNAME | DNO | MGR | SAL-(SAL*5/100) |
+-----+-----+-----+-----+
| RAHUL | MUKARJEE | 111 | 1702 | 95000.000000 |
| SAMEER | KHAN | 110 | 2001 | 85500.000000 |
| JAHNAVI | NAIK | 110 | 1702 | 427500.000000 |
| SHIVANI | RAI | 113 | 2201 | 427500.000000 |
| ABHIJIT | GOWDA | 110 | 1702 | 47500.000000 |
| KARAN | BHAT | 111 | 1701 | 42750.000000 |
| MURALI | KRISHNAN | 110 | 2201 | 42750.000000 |
| DHARANI | PATIL | 113 | 2001 | 28500.000000 |
| RASHMI | GONDA | 111 | 1701 | 42750.000000 |
| FARIYA | TAJ | 113 | 2001 | 30400.000000 |
| PRIYA | SHETTY | 112 | 2001 | 30400.000000 |
| AMAN | RAI | 111 | 1701 | 38000.000000 |
| KIRAN | RAJ | 115 | NULL | 28500.000000 |
+-----+-----+-----+-----+
13 rows in set (0.00 sec)
```

```
select Fname,lname,job,dob,sal-(sal*14/100),comm*12
```

```
-> from emp;
```

Fname	lname	job	dob	sal-(sal*14/100)	comm*12
RAHUL	MUKARJEE	MANAGER	1991-02-19	86000.000000	NULL
SAMEER	KHAN	MANAGER	1995-04-20	77400.000000	NULL
JAHNAVI	NAIK	DISPATCHER	1996-04-11	387000.000000	12000.00
SHIVANI	RAI	TESTER	1998-11-07	387000.000000	NULL
ABHIJIT	GOWDA	DISPATCHER	1997-12-25	43000.000000	NULL
KARAN	BHAT	SALESMAN	1997-12-26	38700.000000	NULL
MURALI	KRISHNAN	DISPATCHER	1998-06-08	38700.000000	12000.00
DHARANI	PATIL	DEVELOPER	1998-11-10	25800.000000	36000.00
RASHMI	GONDA	SALESMAN	1995-10-03	38700.000000	36000.00
FARIYA	TAJ	DEVELOPER	1999-01-03	27520.000000	43200.00
PRIYA	SHETTY	ACCOUNTANT	1998-03-20	27520.000000	43200.00
AMAN	RAI	SALESMAN	1998-08-15	34400.000000	NULL
KIRAN	RAJ	ACCOUNTANT	1999-09-21	25800.000000	43200.00

13 rows in set (0.00 sec)

Annual sallary with 8% hike???

```
select fname,dob,sal,(sal*12)+((sal*12)*8/100)
```

```
-> from emp;
```

fname	dob	sal	(sal*12)+((sal*12)*8/100)
RAHUL	1991-02-19	100000.00	1296000.000000
SAMEER	1995-04-20	90000.00	1166400.000000
JAHNAVI	1996-04-11	450000.00	5832000.000000
SHIVANI	1998-11-07	450000.00	5832000.000000
ABHIJIT	1997-12-25	50000.00	648000.000000
KARAN	1997-12-26	45000.00	583200.000000
MURALI	1998-06-08	45000.00	583200.000000
DHARANI	1998-11-10	30000.00	388800.000000
RASHMI	1995-10-03	45000.00	583200.000000
FARIYA	1999-01-03	32000.00	414720.000000
PRIYA	1998-03-20	32000.00	414720.000000
AMAN	1998-08-15	40000.00	518400.000000
KIRAN	1999-09-21	30000.00	388800.000000

13 rows in set (0.00 sec)

Annual comm with 10% hike and salary with 4% deduction???

```
select fname,dob,mgr,(comm*12)+((comm*12)*10/100),(sal*12)-((sal*12)*4/100)
```

```
-> from emp;
```

fname	dob	mgr	(comm*12)+((comm*12)*10/100)	(sal*12)-((sal*12)*4/100)
-------	-----	-----	------------------------------	---------------------------

RAHUL 1991-02-19 1702	NULL	1152000.000000
SAMEER 1995-04-20 2001	NULL	1036800.000000
JAHNAVI 1996-04-11 1702	13200.000000	5184000.000000
SHIVANI 1998-11-07 2201	NULL	5184000.000000
ABHIJIT 1997-12-25 1702	NULL	576000.000000
KARAN 1997-12-26 1701	NULL	518400.000000
MURALI 1998-06-08 2201	13200.000000	518400.000000
DHARANI 1998-11-10 2001	39600.000000	345600.000000
RASHMI 1995-10-03 1701	39600.000000	518400.000000
FARIYA 1999-01-03 2001	47520.000000	368640.000000
PRIYA 1998-03-20 2001	47520.000000	368640.000000
AMAN 1998-08-15 1701	NULL	460800.000000
KIRAN 1999-09-21 NULL	47520.000000	345600.000000

+-----+-----+-----+-----+-----+-----+

13 rows in set (0.00 sec)

Sal with 5% hike,comm with 10% deduction,annual sal with 15% hike,annual comm with 15 % deduction??????????

```
select fname,job,sal+(sal*5/100),comm-
(comm*10/100),(sal*12)+((sal*12)*15/100),(comm*12)-((comm*12)*20/100)
-> from emp;
```

---+						
fname job	sal+(sal*5/100)	comm-(comm*10/100)	(sal*12)+((sal*12)*15/100)	(comm*12)-((comm*12)*20/100)		
+-----+-----+-----+-----+-----+-----+						
---+						
RAHUL MANAGER	105000.000000	NULL	1380000.000000			
NULL						
SAMEER MANAGER	94500.000000	NULL	1242000.000000			
NULL						
JAHNAVI DISPATCHER	472500.000000	900.000000	6210000.000000			
9600.000000						
SHIVANI TESTER	472500.000000	NULL	6210000.000000			
NULL						
ABHIJIT DISPATCHER	52500.000000	NULL	690000.000000			
NULL						
KARAN SALESMAN	47250.000000	NULL	621000.000000			
NULL						
MURALI DISPATCHER	47250.000000	900.000000	621000.000000			
9600.000000						
DHARANI DEVELOPER	31500.000000	2700.000000	414000.000000			
28800.000000						
RASHMI SALESMAN	47250.000000	2700.000000	621000.000000			
28800.000000						
FARIYA DEVELOPER	33600.000000	3240.000000	441600.000000			
34560.000000						
PRIYA ACCOUNTANT	33600.000000	3240.000000	441600.000000			
34560.000000						

AMAN	SALESMAN	42000.000000	NULL	552000.000000
NULL				
KIRAN	ACCOUNTANT	31500.000000	3240.000000	414000.000000
34560.000000				

13 rows in set (0.00 sec)

ALIASING

SALARY with 5% hike,
 commITION with 10% deduction,
 annual salARY with 15% hike,
 Annual_commITION with 20 % deduction???????????

```
select fname,job,sal+(sal*5/100) "SALARY",comm-(comm*10/100)
"COMMISSION",((sal*12)+((sal*12)*15/100) "ANNUAL SALARY",((comm*12)-
((comm*12)*20/100) ANNUAL_COMMISSION
FROM EMP;
```

fname	job	SALARY	COMMISSION	ANNUAL SALARY	ANNUAL_COMMISSION
RAHUL	MANAGER	105000.000000	NULL	1380000.000000	NULL
SAMEER	MANAGER	94500.000000	NULL	1242000.000000	NULL
JAHNAVI	DISPATCHER	472500.000000	900.000000	6210000.000000	9600.000000
SHIVANI	TESTER	472500.000000	NULL	6210000.000000	NULL
ABHIJIT	DISPATCHER	52500.000000	NULL	690000.000000	NULL
KARAN	SALESMAN	47250.000000	NULL	621000.000000	NULL
MURALI	DISPATCHER	47250.000000	900.000000	621000.000000	9600.000000
DHARANI	DEVELOPER	31500.000000	2700.000000	414000.000000	28800.000000
RASHMI	SALESMAN	47250.000000	2700.000000	621000.000000	28800.000000
FARIYA	DEVELOPER	33600.000000	3240.000000	441600.000000	34560.000000
PRIYA	ACCOUNTANT	33600.000000	3240.000000	441600.000000	34560.000000
AMAN	SALESMAN	42000.000000	NULL	552000.000000	NULL
KIRAN	ACCOUNTANT	31500.000000	3240.000000	414000.000000	34560.000000

13 rows in set (0.00 sec)

```
FIRST NAME, LAST NAME, & ANNUAL SALARY FROM EMP?????????????
SELECT FNAME "FIRST NAME", Lname "LAST NAME", SAL*12 "ANNUAL SALARY"
FROM EMP;
```

FIRST NAME	LAST NAME	ANNUAL SALARY
RAHUL	MUKARJEE	1200000.00
SAMEER	KHAN	1080000.00
JAHNAVI	NAIK	5400000.00
SHIVANI	RAI	5400000.00
ABHIJIT	GOWDA	600000.00
KARAN	BHAT	540000.00
MURALI	KRISHNAN	540000.00
DHARANI	PATIL	360000.00
RASHMI	GONDA	540000.00
FARIYA	TAJ	384000.00
PRIYA	SHETTY	384000.00
AMAN	RAI	480000.00
KIRAN	RAJ	360000.00

13 rows in set (0.00 sec)

"DISTINCT"

DIFFERENT JOB ROLE PRESENT IN EMP TABLE????????????

```
SELECT DISTINCT JOB
FROM EMP;
```

JOB
MANAGER
DISPATCHER
TESTER
SALESMAN
DEVELOPER
ACCOUNTANT

6 rows in set (0.00 sec)

UNIQUE COMBINATION OF SAL AND DNO FROM EMP

```
SELECT DISTINCT SAL,DNO
-> FROM EMP;
```

SAL	DNO
100000.00	111
90000.00	110
450000.00	110
450000.00	113
50000.00	110

```

| 45000.00 | 111 |
| 45000.00 | 110 |
| 30000.00 | 113 |
| 32000.00 | 113 |
| 32000.00 | 112 |
| 40000.00 | 111 |
| 30000.00 | 115 |
+-----+-----+
12 rows in set (0.00 sec)

```

"SELECTION"

fmane ="rashmi"

select* from emp

-> where fname="rashmi";

```

+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| EID | FNAME | LNAME | DOB      | GENDER | JOB      | MGR | DOJ      | SAL      | COMM      |
| DNO | CID   |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| 2101 | RASHMI | GONDA | 1995-10-03 | f      | SALESMAN | 1701 | 2021-01-02 | 45000.00 |
| 3000.00 | 111 | NULL |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
1 row in set (0.00 sec)

```

Fame firstname,lname lastname job where job="salesmae"?????

select fname "first name",lname "last name",job

-> From emp

-> where job="salesman";

```

+-----+-----+-----+
| first name | last name | job      |
+-----+-----+-----+
| KARAN      | BHAT      | SALESMAN |
| RASHMI     | GONDA     | SALESMAN |
| AMAN       | RAI       | SALESMAN |
+-----+-----+-----+
3 rows in set (0.00 sec)

```

WQTD EMP WHO ARE GETTING SAL MORE THAN 45000

select * from emp

-> where sal>45000;

```

+-----+-----+-----+-----+-----+-----+-----+-----+-----+
--+
| EID | FNAME | LNAME | DOB      | GENDER | JOB      | MGR | DOJ      | SAL      | COMM      |
| COMM | DNO | CID |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
--+
| 1903 | KARAN | BHAT      | 1997-12-26 | m      | SALESMAN | 1701 | 2019-12-26 | 45000.00 | NULL | 111 | 506 |
| 2001 | MURALI | KRISHNAN | 1998-06-08 | m      | DISPATCHER | 2201 | 2020-03-15 | 45000.00 | 1000.00 | 110 | NULL |

```

```
| 2101 | RASHMI | GONDA | 1995-10-03 | f | SALESMAN | 1701 | 2021-01-02 |
45000.00 | 3000.00 | 111 | NULL |
```

```
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
--+
```

3 rows in set (0.00 sec)

FNAME,LNAME,SAL,DOB FROM EMP IF THE EMP BORN AFTER THE YEAR 1993?????????

```
select fname "first name",lname "last name",sal "salary",DOB "DATEOF BIRTH"
```

```
-> FROM EMP
```

```
-> WHERE DOB>'1993-12-12';
```

```
+-----+-----+-----+-----+
| first name | last name | salary | DATEOF BIRTH |
+-----+-----+-----+-----+
| SAMEER | KHAN | 90000.00 | 1995-04-20 |
| JAHNAVI | NAIK | 450000.00 | 1996-04-11 |
| SHIVANI | RAI | 450000.00 | 1998-11-07 |
| ABHIJIT | GOWDA | 50000.00 | 1997-12-25 |
| KARAN | BHAT | 45000.00 | 1997-12-26 |
| MURALI | KRISHNAN | 45000.00 | 1998-06-08 |
| DHARANI | PATIL | 30000.00 | 1998-11-10 |
| RASHMI | GONDA | 45000.00 | 1995-10-03 |
| FARIYA | TAJ | 32000.00 | 1999-01-03 |
| PRIYA | SHETTY | 32000.00 | 1998-03-20 |
| AMAN | RAI | 40000.00 | 1998-08-15 |
| KIRAN | RAJ | 30000.00 | 1999-09-21 |
+-----+-----+-----+-----+
```

12 rows in set (0.00 sec)

```
SELECT FNAME,JOB,DOB
```

```
-> FROM EMP
```

```
-> WHERE doj<'2019-01-01'; Or '2018-12-31';
```

```
+-----+-----+-----+
| FNAME | JOB | DOB |
+-----+-----+-----+
| RAHUL | MANAGER | 1991-02-19 |
| SAMEER | MANAGER | 1995-04-20 |
+-----+-----+-----+
```

2 rows in set (0.00 sec)

The emp hierd after the month mar 2020???????

```
select * from emp
```

```
-> where doj>'2020-03-31';
```

```
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
--+
```

EID	FNAME	LNAME	DOB	GENDER	JOB	MGR	DOJ	SAL	COMM	DNO	CID
2002	DHARANI	PATIL	1998-11-10	f	DEVELOPER	2001	2021-06-20	30000.00	3000.00	113	NULL
2101	RASHMI	GONDA	1995-10-03	f	SALESMAN	1701	2021-01-02	45000.00	3000.00	111	NULL

```
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
--+
```

```
| 2102 | FARIYA | TAJ | 1999-01-03 | f | DEVELOPER | 2001 | 2021-03-01 | 32000.00 |
3600.00 | 113 | NULL |
| 2103 | PRIYA | SHETTY | 1998-03-20 | f | ACCOUNTANT | 2001 | 2021-05-01 |
32000.00 | 3600.00 | 112 | NULL |
| 2104 | AMAN | RAI | 1998-08-15 | m | SALESMAN | 1701 | 2021-12-26 | 40000.00
| NULL | 111 | NULL |
| 2201 | KIRAN | RAJ | 1999-09-21 | m | ACCOUNTANT | NULL | 2022-08-28 |
30000.00 | 3600.00 | 115 | 503 |
```

```
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
--+
```

6 rows in set (0.00 sec)

Annual sal is more than 500000??????????????/

```
select sal "annual salary" from emp
-> where sal*12>500000;
```

```
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
----+
```

```
| EID | FNAME | LNAME | DOB | GENDER | JOB | MGR | DOJ | SAL |
COMM | DNO | CID |
```

```
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
----+
```

```
| 1701 | RAHUL | MUKARJEE | 1991-02-19 | m | MANAGER | 1702 | 2017-04-17 |
100000.00 | NULL | 111 | NULL |
| 1702 | SAMEER | KHAN | 1995-04-20 | m | MANAGER | 2001 | 2017-07-07 |
90000.00 | NULL | 110 | NULL |
| 1801 | JAHNAVI | NAIK | 1996-04-11 | f | DISPATCHER | 1702 | 2020-02-15 |
450000.00 | 1000.00 | 110 | NULL |
| 1901 | SHIVANI | RAI | 1998-11-07 | f | TESTER | 2201 | 2019-12-12 | 450000.00 |
NULL | 113 | 502 |
| 1902 | ABHIJIT | GOWDA | 1997-12-25 | m | DISPATCHER | 1702 | 2019-02-28 |
50000.00 | NULL | 110 | 505 |
| 1903 | KARAN | BHAT | 1997-12-26 | m | SALESMAN | 1701 | 2019-12-26 |
45000.00 | NULL | 111 | 506 |
| 2001 | MURALI | KRISHNAN | 1998-06-08 | m | DISPATCHER | 2201 | 2020-03-15 |
45000.00 | 1000.00 | 110 | NULL |
| 2101 | RASHMI | GONDA | 1995-10-03 | f | SALESMAN | 1701 | 2021-01-02 |
45000.00 | 3000.00 | 111 | NULL |
```

```
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
----+
```

8 rows in set (0.00 sec)

Logical OPERATORS

Emp who are working as salesman or manager

```
select * from emp
-> where job ='salesman' or job='manager';
```

```
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
--+
```

```
| EID | FNAME | LNAME | DOB | GENDER | JOB | MGR | DOJ | SAL |
COMM | DNO | CID |
```

```
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
--+
```


1701	RAHUL	MUKARJEE	1991-02-19	m	MANAGER	1702	2017-04-17	100000.00	NULL	111	NULL
1702	SAMEER	KHAN	1995-04-20	m	MANAGER	2001	2017-07-07	90000.00	NULL	110	NULL
1903	KARAN	BHAT	1997-12-26	m	SALESMAN	1701	2019-12-26	45000.00	NULL	111	506
2101	RASHMI	GONDA	1995-10-03	f	SALESMAN	1701	2021-01-02	45000.00	3000.00	111	NULL
2104	AMAN	RAI	1998-08-15	m	SALESMAN	1701	2021-12-26	40000.00	NULL	111	NULL

```

+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
-+

```

5 rows in set (0.00 sec)

If the emp borm during the year 1995

```

SELECT fname, lname, sal, dob
-> FROM emp
-> WHERE dob >= '1995-01-01' AND dob <= '1995-12-31';

```

fname	lname	sal	dob
SAMEER	KHAN	90000.00	1995-04-20
RASHMI	GONDA	45000.00	1995-10-03

2 rows in set (0.00 sec)

salesman Or developer dno =111

```

select * from emp
-> where job='salesman' or job='developer' and (dno=111);

```

EID	FNAME	LNAME	DOB	GENDER	JOB	MGR	DOJ	SAL	COMM	DNO	CID
1903	KARAN	BHAT	1997-12-26	m	SALESMAN	1701	2019-12-26	45000.00	NULL	111	506
2101	RASHMI	GONDA	1995-10-03	f	SALESMAN	1701	2021-01-02	45000.00	3000.00	111	NULL
2104	AMAN	RAI	1998-08-15	m	SALESMAN	1701	2021-12-26	40000.00	NULL	111	NULL

3 rows in set (0.00 sec)

Job salesman,manager,developrr,dispacher sal more than 45000

```

select * from emp
-> where ( job='salesman' or job='developer' or job='manager' or job ='dispatcher') and
sal> 45000;

```

EID	FNAME	LNAME	DOB	GENDER	JOB	MGR	DOJ	SAL	COMM	DNO	CID
-----	-------	-------	-----	--------	-----	-----	-----	-----	------	-----	-----

```

+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
----+
| 1701 | RAHUL | MUKARJEE | 1991-02-19 | m | MANAGER | 1702 | 2017-04-17 |
100000.00 | NULL | 111 | NULL |
| 1702 | SAMEER | KHAN | 1995-04-20 | m | MANAGER | 2001 | 2017-07-07 |
90000.00 | NULL | 110 | NULL |
| 1801 | JAHNAVI | NAIK | 1996-04-11 | f | DISPATCHER | 1702 | 2020-02-15 |
450000.00 | 1000.00 | 110 | NULL |
| 1902 | ABHIJIT | GOWDA | 1997-12-25 | m | DISPATCHER | 1702 | 2019-02-28 |
50000.00 | NULL | 110 | 505 |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
----+
4 rows in set (0.00 sec)

```

"IN"--IT WORKS FOR OR CONITION

Job salesman,manager,developrr,dispacher sal more than 45000

```

select * from emp
-> where job IN ('SALESMAN','DEVELOPER','MANAGER','DISPATCHER') AND SAL>45000;
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
----+
| EID | FNAME | LNAME | DOB | GENDER | JOB | MGR | DOJ | SAL |
COMM | DNO | CID |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
----+
| 1701 | RAHUL | MUKARJEE | 1991-02-19 | m | MANAGER | 1702 | 2017-04-17 |
100000.00 | NULL | 111 | NULL |
| 1702 | SAMEER | KHAN | 1995-04-20 | m | MANAGER | 2001 | 2017-07-07 |
90000.00 | NULL | 110 | NULL |
| 1801 | JAHNAVI | NAIK | 1996-04-11 | f | DISPATCHER | 1702 | 2020-02-15 |
450000.00 | 1000.00 | 110 | NULL |
| 1902 | ABHIJIT | GOWDA | 1997-12-25 | m | DISPATCHER | 1702 | 2019-02-28 |
50000.00 | NULL | 110 | 505 |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
----+
4 rows in set (0.00 sec)
EMP IF THE EMP ARE WORKING IN 110,111 OR,112 AND SAL > 30000 AND WORKIN AS
SALESMAN OR MANAGER?
SELECT * FROM EMP
-> WHERE DNO IN (110,111,112) AND (SAL>30000) AND JOB IN('SALESMAN','MANAGER');
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
-+
| EID | FNAME | LNAME | DOB | GENDER | JOB | MGR | DOJ | SAL |
COMM | DNO | CID |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
-+
| 1701 | RAHUL | MUKARJEE | 1991-02-19 | m | MANAGER | 1702 | 2017-04-17 |
100000.00 | NULL | 111 | NULL |

```

```

| 1702 | SAMEER | KHAN | 1995-04-20 | m | MANAGER | 2001 | 2017-07-07 |
90000.00 | NULL | 110 | NULL |
| 1903 | KARAN | BHAT | 1997-12-26 | m | SALESMAN | 1701 | 2019-12-26 |
45000.00 | NULL | 111 | 506 |
| 2101 | RASHMI | GONDA | 1995-10-03 | f | SALESMAN | 1701 | 2021-01-02 |
45000.00 | 3000.00 | 111 | NULL |
| 2104 | AMAN | RAI | 1998-08-15 | m | SALESMAN | 1701 | 2021-12-26 | 40000.00
| NULL | 111 | NULL |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
-+
5 rows in set (0.00 sec)

```

```

SELECT FNAME, LNAME, JOB, DOJ
-> FROM EMP
-> WHERE DOJ > '2017-12-31' AND JOB IN ('SALESMAN', 'MANAGER', 'DEVELOPER');

```

```

+-----+-----+-----+-----+
| FNAME | LNAME | JOB | DOJ |
+-----+-----+-----+-----+
| KARAN | BHAT | SALESMAN | 2019-12-26 |
| DHARANI | PATIL | DEVELOPER | 2021-06-20 |
| RASHMI | GONDA | SALESMAN | 2021-01-02 |
| FARIYA | TAJ | DEVELOPER | 2021-03-01 |
| AMAN | RAI | SALESMAN | 2021-12-26 |
+-----+-----+-----+-----+
5 rows in set (0.00 sec)

```

```

SELECT * FROM EMP
-> WHERE JOB != 'SALESMAN' AND JOB != 'MANAGER' AND JOB != 'DEVELOPER';

```

```

+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
----+
| EID | FNAME | LNAME | DOB | GENDER | JOB | MGR | DOJ | SAL |
COMM | DNO | CID |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
----+
| 1801 | JAHNAVI | NAIK | 1996-04-11 | f | DISPATCHER | 1702 | 2020-02-15 |
450000.00 | 1000.00 | 110 | NULL |
| 1901 | SHIVANI | RAI | 1998-11-07 | f | TESTER | 2201 | 2019-12-12 | 450000.00 |
NULL | 113 | 502 |
| 1902 | ABHIJIT | GOWDA | 1997-12-25 | m | DISPATCHER | 1702 | 2019-02-28 |
50000.00 | NULL | 110 | 505 |
| 2001 | MURALI | KRISHNAN | 1998-06-08 | m | DISPATCHER | 2201 | 2020-03-15 |
45000.00 | 1000.00 | 110 | NULL |
| 2103 | PRIYA | SHETTY | 1998-03-20 | f | ACCOUNTANT | 2001 | 2021-05-01 |
32000.00 | 3600.00 | 112 | NULL |
| 2201 | KIRAN | RAJ | 1999-09-21 | m | ACCOUNTANT | NULL | 2022-08-28 |
30000.00 | 3600.00 | 115 | 503 |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
----+
6 rows in set (0.00 sec)

```

NOT

```
SELECT * FROM EMP
-> WHERE JOB != 'SALESMAN' AND JOB != 'MANAGER' AND JOB != 'DEVELOPER';
```

EID	FNAME	LNAME	DOB	GENDER	JOB	MGR	DOJ	SAL
1801	JAHNAVI	NAIK	1996-04-11	f	DISPATCHER	1702	2020-02-15	450000.00
1901	SHIVANI	RAI	1998-11-07	f	TESTER	2201	2019-12-12	450000.00
1902	ABHIJIT	GOWDA	1997-12-25	m	DISPATCHER	1702	2019-02-28	50000.00
2001	MURALI	KRISHNAN	1998-06-08	m	DISPATCHER	2201	2020-03-15	45000.00
2103	PRIYA	SHETTY	1998-03-20	f	ACCOUNTANT	2001	2021-05-01	32000.00
2201	KIRAN	RAJ	1999-09-21	m	ACCOUNTANT	NULL	2022-08-28	30000.00

6 rows in set (0.00 sec)

EMP IF THE EMP ARE NOT WORKING AS SALESMAN,MANAGER,DEVELOPER??????????

```
SELECT * FROM EMP
-> WHERE JOB NOT IN ("SALESMAN","MANAGER","DEVELOPER");
```

EID	FNAME	LNAME	DOB	GENDER	JOB	MGR	DOJ	SAL
1801	JAHNAVI	NAIK	1996-04-11	f	DISPATCHER	1702	2020-02-15	450000.00
1901	SHIVANI	RAI	1998-11-07	f	TESTER	2201	2019-12-12	450000.00
1902	ABHIJIT	GOWDA	1997-12-25	m	DISPATCHER	1702	2019-02-28	50000.00
2001	MURALI	KRISHNAN	1998-06-08	m	DISPATCHER	2201	2020-03-15	45000.00
2103	PRIYA	SHETTY	1998-03-20	f	ACCOUNTANT	2001	2021-05-01	32000.00
2201	KIRAN	RAJ	1999-09-21	m	ACCOUNTANT	NULL	2022-08-28	30000.00

6 rows in set (0.00 sec)

Fname,dno sal if the emp not in 110 ,112 sal<100000?

```
select fname,dno,sal from emp
-> where dno not in(110,112) and (sal < 100000);
```

```
+-----+-----+-----+
| fname | dno | sal |
+-----+-----+-----+
| KARAN | 111 | 45000.00 |
| DHARANI | 113 | 30000.00 |
| RASHMI | 111 | 45000.00 |
| FARIYA | 113 | 32000.00 |
| AMAN | 111 | 40000.00 |
| KIRAN | 115 | 30000.00 |
+-----+-----+-----+
```

6 rows in set (0.00 sec)

```
select * from emp
where (dob>='1998-01-01' and dob<='1998-12-31') and job not in
('manager','salesman') and (doj>='2020-01-01' and doj<='2020-12-31') and gender !='f';
```

```
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
--+
| EID | FNAME | LNAME | DOB | GENDER | JOB | MGR | DOJ | SAL |
COMM | DNO | CID |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
--+
| 2001 | MURALI | KRISHNAN | 1998-06-08 | m | DISPATCHER | 2201 | 2020-03-15 |
45000.00 | 1000.00 | 110 | NULL |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
--+
```

1 row in set (0.01 sec)

```
Select * from emp
Where Sal>= 35000 and sal<=50000;
```

```
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
---+
| EID | FNAME | LNAME | DOB | GENDER | JOB | MGR | DOJ | SAL |
COMM | DNO | CID |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
---+
| 1902 | ABHIJIT | GOWDA | 1997-12-25 | m | DISPATCHER | 1702 | 2019-02-28 |
50000.00 | NULL | 110 | 505 |
| 1903 | KARAN | BHAT | 1997-12-26 | m | SALESMAN | 1701 | 2019-12-26 |
45000.00 | NULL | 111 | 506 |
| 2001 | MURALI | KRISHNAN | 1998-06-08 | m | DISPATCHER | 2201 | 2020-03-15 |
45000.00 | 1000.00 | 110 | NULL |
| 2101 | RASHMI | GONDA | 1995-10-03 | f | SALESMAN | 1701 | 2021-01-02 |
45000.00 | 3000.00 | 111 | NULL |
```

```
| 2104 | AMAN   | RAI    | 1998-08-15 | m   | SALESMAN | 1701 | 2021-12-26 |
40000.00 | NULL | 111 | NULL |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
---+
5 rows in set (0.00 sec)
```

between

```
mysql> Select * from emp
-> where Sal between 35000 and 50000;
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
---+
| EID | FNAME | LNAME | DOB      | GENDER | JOB      | MGR | DOJ      | SAL      |
COMM | DNO | CID |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
---+
| 1902 | ABHIJIT | GOWDA | 1997-12-25 | m   | DISPATCHER | 1702 | 2019-02-28 | 50000.00 |
NULL | 110 | 505 |
| 1903 | KARAN   | BHAT  | 1997-12-26 | m   | SALESMAN   | 1701 | 2019-12-26 | 45000.00 |
NULL | 111 | 506 |
| 2001 | MURALI  | KRISHNAN | 1998-06-08 | m   | DISPATCHER | 2201 | 2020-03-15 | 45000.00 |
1000.00 | 110 | NULL |
| 2101 | RASHMI  | GONDA  | 1995-10-03 | f   | SALESMAN   | 1701 | 2021-01-02 | 45000.00 |
3000.00 | 111 | NULL |
| 2104 | AMAN    | RAI    | 1998-08-15 | m   | SALESMAN   | 1701 | 2021-12-26 | 40000.00 |
NULL | 111 | NULL |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
---+
5 rows in set (0.00 sec)

dob born in the in 1993????????
Select * from emp
-> where dob between '1993-01-01' and '1993-12-31';
Empty set (0.00 sec)
```

```
Select * from emp
-> where sal > 35000 and sal < 100000 and job in ("salesman", "developer", "manager");
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| EID | FNAME | LNAME | DOB      | GENDER | JOB      | MGR | DOJ      | SAL      |
COMM | DNO | CID |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| 1702 | SAMEER | KHAN  | 1995-04-20 | m   | MANAGER   | 2001 | 2017-07-07 | 90000.00 |
NULL | 110 | NULL |
| 1903 | KARAN   | BHAT  | 1997-12-26 | m   | SALESMAN   | 1701 | 2019-12-26 | 45000.00 |
NULL | 111 | 506 |
| 2101 | RASHMI  | GONDA  | 1995-10-03 | f   | SALESMAN   | 1701 | 2021-01-02 | 45000.00 |
3000.00 | 111 | NULL |
```

```
| 2104 | AMAN | RAI | 1998-08-15 | m | SALESMAN | 1701 | 2021-12-26 | 40000.00 |
NULL | 111 | NULL |
```

```
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
```

4 rows in set (0.00 sec)

where sal between 35000+0.01 and 100000+0.01 and job in
("salesman","developer","manager");

NOT BETWEEN

```
select * from emp
```

```
-> where sal not between 35000 and 45000;
```

```
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
```

```
----+
```

```
| EID | FNAME | LNAME | DOB | GENDER | JOB | MGR | DOJ | SAL |
COMM | DNO | CID |
```

```
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
```

```
----+
```

```
| 1701 | RAHUL | MUKARJEE | 1991-02-19 | m | MANAGER | 1702 | 2017-04-17 |
100000.00 | NULL | 111 | NULL |
```

```
| 1702 | SAMEER | KHAN | 1995-04-20 | m | MANAGER | 2001 | 2017-07-07 |
90000.00 | NULL | 110 | NULL |
```

```
| 1801 | JAHNAVI | NAIK | 1996-04-11 | f | DISPATCHER | 1702 | 2020-02-15 |
450000.00 | 1000.00 | 110 | NULL |
```

```
| 1901 | SHIVANI | RAI | 1998-11-07 | f | TESTER | 2201 | 2019-12-12 | 450000.00 |
NULL | 113 | 502 |
```

```
| 1902 | ABHIJIT | GOWDA | 1997-12-25 | m | DISPATCHER | 1702 | 2019-02-28 |
50000.00 | NULL | 110 | 505 |
```

```
| 2002 | DHARANI | PATIL | 1998-11-10 | f | DEVELOPER | 2001 | 2021-06-20 |
30000.00 | 3000.00 | 113 | NULL |
```

```
| 2102 | FARIYA | TAJ | 1999-01-03 | f | DEVELOPER | 2001 | 2021-03-01 | 32000.00
| 3600.00 | 113 | NULL |
```

```
| 2103 | PRIYA | SHETTY | 1998-03-20 | f | ACCOUNTANT | 2001 | 2021-05-01 |
32000.00 | 3600.00 | 112 | NULL |
```

```
| 2201 | KIRAN | RAJ | 1999-09-21 | m | ACCOUNTANT | NULL | 2022-08-28 |
30000.00 | 3600.00 | 115 | 503 |
```

```
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
```

```
----+
```

9 rows in set (0.00 sec)

Not joined b/w 2020

```
mysql> select * from emp
```

```
-> where doj not between "2020-01-01" and "2020-12-31";
```

```
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
```

```
----+
```

```
| EID | FNAME | LNAME | DOB | GENDER | JOB | MGR | DOJ | SAL |
COMM | DNO | CID |
```

```
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
```

```
----+
```



```
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
----+
7 rows in set (0.00 sec)
```

EMP WHO IS ACTING AS CUSTOMER??????????????????

```
select * from emp
```

```
-> WHERE CID IS NOT NULL;
```

```
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
--+
| EID | FNAME | LNAME | DOB      | GENDER | JOB      | MGR | DOJ      | SAL      |
COMM | DNO | CID |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
--+
| 1901 | SHIVANI | RAI    | 1998-11-07 | f      | TESTER   | 2201 | 2019-12-12 | 450000.00 |
NULL | 113 | 502 |
| 1902 | ABHIJIT | GOWDA  | 1997-12-25 | m      | DISPATCHER | 1702 | 2019-02-28 |
50000.00 | NULL | 110 | 505 |
| 1903 | KARAN   | BHAT   | 1997-12-26 | m      | SALESMAN  | 1701 | 2019-12-26 |
45000.00 | NULL | 111 | 506 |
| 2201 | KIRAN   | RAJ    | 1999-09-21 | m      | ACCOUNTANT | NULL | 2022-08-28 |
30000.00 | 3600.00 | 115 | 503 |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
--+
4 rows in set (0.00 sec)
```

EMP IF THEY HAVE ACTING AS A REPORTING MANAGER???????/

```
mysql> select * from emp
```

```
-> WHERE MGR IS NOT NULL;
```

```
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
----+
| EID | FNAME | LNAME | DOB      | GENDER | JOB      | MGR | DOJ      | SAL      |
COMM | DNO | CID |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
----+
| 1701 | RAHUL   | MUKARJEE | 1991-02-19 | m      | MANAGER   | 1702 | 2017-04-17 |
100000.00 | NULL | 111 | NULL |
| 1702 | SAMEER  | KHAN     | 1995-04-20 | m      | MANAGER   | 2001 | 2017-07-07 |
90000.00 | NULL | 110 | NULL |
| 1801 | JAHNAVI | NAIK     | 1996-04-11 | f      | DISPATCHER | 1702 | 2020-02-15 |
450000.00 | 1000.00 | 110 | NULL |
| 1901 | SHIVANI | RAI      | 1998-11-07 | f      | TESTER    | 2201 | 2019-12-12 | 450000.00 |
NULL | 113 | 502 |
| 1902 | ABHIJIT | GOWDA    | 1997-12-25 | m      | DISPATCHER | 1702 | 2019-02-28 |
50000.00 | NULL | 110 | 505 |
| 1903 | KARAN   | BHAT     | 1997-12-26 | m      | SALESMAN  | 1701 | 2019-12-26 |
45000.00 | NULL | 111 | 506 |
| 2001 | MURALI  | KRISHNAN | 1998-06-08 | m      | DISPATCHER | 2201 | 2020-03-15 |
45000.00 | 1000.00 | 110 | NULL |
| 2002 | DHARANI | PATIL    | 1998-11-10 | f      | DEVELOPER | 2001 | 2021-06-20 |
30000.00 | 3000.00 | 113 | NULL |
```

```

| 2101 | RASHMI | GONDA | 1995-10-03 | f | SALESMAN | 1701 | 2021-01-02 |
45000.00 | 3000.00 | 111 | NULL |
| 2102 | FARIYA | TAJ | 1999-01-03 | f | DEVELOPER | 2001 | 2021-03-01 | 32000.00
| 3600.00 | 113 | NULL |
| 2103 | PRIYA | SHETTY | 1998-03-20 | f | ACCOUNTANT | 2001 | 2021-05-01 |
32000.00 | 3600.00 | 112 | NULL |
| 2104 | AMAN | RAI | 1998-08-15 | m | SALESMAN | 1701 | 2021-12-26 |
40000.00 | NULL | 111 | NULL |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
----+
12 rows in set (0.00 sec)

```

EMP WHO ARE GETTING SAL IN THE RANGE OF 40000 TO 100000 AND IN THE YESR 2019 AND IN THE DATE 26?

```

SELECT *
FROM emp
WHERE SAL BETWEEN 40000 AND 100000
AND EXTRACT(YEAR FROM DOJ) = 2019
AND EXTRACT(DAY FROM DOJ) = 26;
WORKING AS SALESMAN ,DEVELOPER ,DISPATCHER,AND BUT NOT THE DEPT 110,112 AND
GETTING SAL 30000 AND 50000 AND DOB NOT B/W 1995

```

```

SELECT *
-> FROM emp
-> WHERE JOB IN ("SALESMAN", "DEVELOPER", "DISPATCHER")
-> AND DNO NOT IN (110, 112)
-> AND SAL BETWEEN 30000 AND 50000
-> AND DOB NOT BETWEEN '1995-01-01' AND '1995-12-31'
-> AND MGR IS NOT NULL;

```

```

+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| EID | FNAME | LNAME | DOB | GENDER | JOB | MGR | DOJ | SAL | COMM |
| DNO | CID |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| 1903 | KARAN | BHAT | 1997-12-26 | m | SALESMAN | 1701 | 2019-12-26 | 45000.00
| NULL | 111 | 506 |
| 2002 | DHARANI | PATIL | 1998-11-10 | f | DEVELOPER | 2001 | 2021-06-20 | 30000.00
| 3000.00 | 113 | NULL |
| 2102 | FARIYA | TAJ | 1999-01-03 | f | DEVELOPER | 2001 | 2021-03-01 | 32000.00 |
3600.00 | 113 | NULL |
| 2104 | AMAN | RAI | 1998-08-15 | m | SALESMAN | 1701 | 2021-12-26 | 40000.00 |
NULL | 111 | NULL |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
4 rows in set (0.01 sec)

```

like

Fame start with s???????

```

mysql> SELECT FNAME
-> FROM EMP
-> WHERE FNAME LIKE "S%";
+-----+

```

```
| FNAME |
+-----+
| SAMEER |
| SHIVANI |
+-----+
```

2 rows in set (0.00 sec)

LNAME ENDING WITH I??????????/

```
select * from emp
-> where lname LIKE "%I";
```

```
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| EID | FNAME | LNAME | DOB      | GENDER | JOB      | MGR | DOJ      | SAL      | COMM |
| DNO | CID |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| 1901 | SHIVANI | RAI | 1998-11-07 | f | TESTER | 2201 | 2019-12-12 | 450000.00 |
NULL | 113 | 502 |
| 2104 | AMAN | RAI | 1998-08-15 | m | SALESMAN | 1701 | 2021-12-26 | 40000.00 |
NULL | 111 | NULL |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
```

2 rows in set (0.00 sec)

FNAME ATLEAST 2A AND SAL > 25000?

```
mysql> SELECT FNAME,LNAME,JOB,SAL
```

```
-> FROM EMP
-> WHERE FNAME LIKE "%A%A%" AND SAL>25000 ;
```

```
+-----+-----+-----+-----+
| FNAME | LNAME | JOB      | SAL      |
+-----+-----+-----+-----+
| JAHNAVI | NAIK | DISPATCHER | 450000.00 |
| KARAN | BHAT | SALESMAN | 45000.00 |
| DHARANI | PATIL | DEVELOPER | 30000.00 |
| FARIYA | TAJ | DEVELOPER | 32000.00 |
| AMAN | RAI | SALESMAN | 40000.00 |
+-----+-----+-----+-----+
```

5 rows in set (0.00 sec)

Job starting with man

```
select fname,lname,job
```

```
-> from emp
-> where job like "%man%";
```

```
+-----+-----+-----+
| fname | lname | job      |
+-----+-----+-----+
| RAHUL | MUKARJEE | MANAGER |
| SAMEER | KHAN | MANAGER |
| KARAN | BHAT | SALESMAN |
| RASHMI | GONDA | SALESMAN |
| AMAN | RAI | SALESMAN |
+-----+-----+-----+
```

5 rows in set (0.00 sec)

Fname start with s or a

```
select * from emp
```

```
-> where fname like "s%" or fname like "a%";
```

```
+-----+-----+-----+-----+-----+-----+-----+-----+
| EID | FNAME | LNAME | DOB      | GENDER | JOB      | MGR | DOJ      | SAL      |
|-----+-----+-----+-----+-----+-----+-----+-----+
| 1702 | SAMEER | KHAN   | 1995-04-20 | m      | MANAGER  | 2001 | 2017-07-07 | 90000.00 |
| 1901 | SHIVANI | RAI    | 1998-11-07 | f      | TESTER   | 2201 | 2019-12-12 | 450000.00 |
| 1902 | ABHIJIT | GOWDA  | 1997-12-25 | m      | DISPATCHER | 1702 | 2019-02-28 | 50000.00 |
| 2104 | AMAN    | RAI    | 1998-08-15 | m      | SALESMAN | 1701 | 2021-12-26 | 40000.00 |
+-----+-----+-----+-----+-----+-----+-----+-----+
4 rows in set (0.00 sec)
```

Doj in the year 2019?????

```
select * from emp
```

```
-> where doj like "2019%";
```

```
+-----+-----+-----+-----+-----+-----+-----+-----+
| EID | FNAME | LNAME | DOB      | GENDER | JOB      | MGR | DOJ      | SAL      |
|-----+-----+-----+-----+-----+-----+-----+-----+
| 1901 | SHIVANI | RAI    | 1998-11-07 | f      | TESTER   | 2201 | 2019-12-12 | 450000.00 |
| 1902 | ABHIJIT | GOWDA  | 1997-12-25 | m      | DISPATCHER | 1702 | 2019-02-28 | 50000.00 |
| 1903 | KARAN   | BHAT   | 1997-12-26 | m      | SALESMAN | 1701 | 2019-12-26 | 45000.00 |
+-----+-----+-----+-----+-----+-----+-----+-----+
3 rows in set (0.00 sec)
```

Dorn on jan,feb,mar????????????????

```
select fname,lname,dob
```

```
-> from emp
```

```
-> where dob like "%-01-%" or dob like "%-02-%" or dob like "%-03-%";
```

```
+-----+-----+-----+
| fname | lname | dob      |
|-----+-----+-----+
| RAHUL | MUKARJEE | 1991-02-19 |
| FARIYA | TAJ      | 1999-01-03 |
| PRIYA | SHETTY   | 1998-03-20 |
+-----+-----+-----+
3 rows in set (0.00 sec)
```

Who were date 12 or 01?

```
select * from emp
```

```
-> where doj like "%-12" or doj like "%-01";
```

```

+-----+-----+-----+-----+-----+-----+-----+-----+-----+
--+
| EID | FNAME | LNAME | DOB      | GENDER | JOB      | MGR | DOJ      | SAL      |
COMM  | DNO | CID |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
--+
| 1901 | SHIVANI | RAI    | 1998-11-07 | f      | TESTER   | 2201 | 2019-12-12 | 450000.00 |
NULL | 113 | 502 |
| 2102 | FARIYA  | TAJ    | 1999-01-03 | f      | DEVELOPER | 2001 | 2021-03-01 | 32000.00 |
3600.00 | 113 | NULL |
| 2103 | PRIYA   | SHETTY | 1998-03-20 | f      | ACCOUNTANT | 2001 | 2021-05-01 |
32000.00 | 3600.00 | 112 | NULL |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
--+
3 rows in set (0.00 sec)

```

Wqtd fname,job,sal*12 if sal*12 end with 0?/

```

select fname,job,sal*12
-> from emp
-> where sal*12 like "%0";
+-----+-----+-----+
| fname | job      | sal*12 |
+-----+-----+-----+
| RAHUL | MANAGER  | 1200000.00 |
| SAMEER | MANAGER  | 1080000.00 |
| JAHNAVI | DISPATCHER | 5400000.00 |
| SHIVANI | TESTER   | 5400000.00 |
| ABHIJIT | DISPATCHER | 600000.00 |
| KARAN | SALESMAN | 540000.00 |
| MURALI | DISPATCHER | 540000.00 |
| DHARANI | DEVELOPER | 360000.00 |
| RASHMI | SALESMAN | 540000.00 |
| FARIYA | DEVELOPER | 384000.00 |
| PRIYA | ACCOUNTANT | 384000.00 |
| AMAN | SALESMAN | 480000.00 |
| KIRAN | ACCOUNTANT | 360000.00 |
+-----+-----+-----+
13 rows in set (0.00 sec)

```

Not like

Whose fname not start with s??????????/

```

select fname from emp
-> where fname not like "s%";
+-----+
| fname |
+-----+
| RAHUL |
| JAHNAVI |
| ABHIJIT |
| KARAN |

```

```
| MURALI |
| DHARANI |
| RASHMI |
| FARIYA |
| PRIYA |
| AMAN |
| KIRAN |
```

```
+-----+
```

```
11 rows in set (0.00 sec)
```

```
whre not born during 1995????????
```

```
select * from emp
```

```
-> where dob not like "1995%";
```

```
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
```

```
----+
```

```
| EID | FNAME | LNAME | DOB | GENDER | JOB | MGR | DOJ | SAL |
COMM | DNO | CID |
```

```
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
```

```
----+
```

```
| 1701 | RAHUL | MUKARJEE | 1991-02-19 | m | MANAGER | 1702 | 2017-04-17 |
100000.00 | NULL | 111 | NULL |
```

```
| 1801 | JAHNAVI | NAIK | 1996-04-11 | f | DISPATCHER | 1702 | 2020-02-15 |
450000.00 | 1000.00 | 110 | NULL |
```

```
| 1901 | SHIVANI | RAI | 1998-11-07 | f | TESTER | 2201 | 2019-12-12 | 450000.00 |
NULL | 113 | 502 |
```

```
| 1902 | ABHIJIT | GOWDA | 1997-12-25 | m | DISPATCHER | 1702 | 2019-02-28 |
50000.00 | NULL | 110 | 505 |
```

```
| 1903 | KARAN | BHAT | 1997-12-26 | m | SALESMAN | 1701 | 2019-12-26 |
45000.00 | NULL | 111 | 506 |
```

```
| 2001 | MURALI | KRISHNAN | 1998-06-08 | m | DISPATCHER | 2201 | 2020-03-15 |
45000.00 | 1000.00 | 110 | NULL |
```

```
| 2002 | DHARANI | PATIL | 1998-11-10 | f | DEVELOPER | 2001 | 2021-06-20 |
30000.00 | 3000.00 | 113 | NULL |
```

```
| 2102 | FARIYA | TAJ | 1999-01-03 | f | DEVELOPER | 2001 | 2021-03-01 | 32000.00
| 3600.00 | 113 | NULL |
```

```
| 2103 | PRIYA | SHETTY | 1998-03-20 | f | ACCOUNTANT | 2001 | 2021-05-01 |
32000.00 | 3600.00 | 112 | NULL |
```

```
| 2104 | AMAN | RAI | 1998-08-15 | m | SALESMAN | 1701 | 2021-12-26 |
40000.00 | NULL | 111 | NULL |
```

```
| 2201 | KIRAN | RAJ | 1999-09-21 | m | ACCOUNTANT | NULL | 2022-08-28 |
30000.00 | 3600.00 | 115 | 503 |
```

```
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
```

```
----+
```

```
11 rows in set (0.00 sec)
```

```
Fame not starting with s and d?
```

```
select * from emp
```

```
-> where fname not like "s%" and fname not like "d%";
```

```
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
```

```
----+
```

```
| EID | FNAME | LNAME | DOB | GENDER | JOB | MGR | DOJ | SAL |
COMM | DNO | CID |
```



```
select fname from emp
```

```
-> where lname not like "%a" and lname not like "%e" and lname not like "%i" and lname not like "%o" and lname not like "%u";
```

```
+-----+
| fname |
+-----+
| SAMEER |
| JAHNAVI |
| KARAN |
| MURALI |
| DHARANI |
| FARIYA |
| PRIYA |
| KIRAN |
+-----+
```

```
8 rows in set (0.00 sec)
```

c

```
SELECT * FROM pentagon
```

```
-> where name like '%\%%';
```

```
+-----+-----+
| id | name |
+-----+-----+
| 1 | RAK%SHITH |
| 3 | PA%VA%N |
+-----+-----+
```

```
2 rows in set (0.00 sec)
```

```
2% in pentagon
```

```
SELECT * FROM pentagon
```

```
-> where name like '%\%\%\%%';
```

```
+-----+-----+
| id | name |
+-----+-----+
| 3 | PA%VA%N |
+-----+-----+
```

```
1 row in set (0.00 sec)
```

```
3rd char is -??????????
```

```
SELECT * FROM pentagon
```

```
-> where name like '___\%%';
```

```
+-----+-----+
| id | name |
+-----+-----+
| 3 | PA%VA%N |
+-----+-----+
```

```
1 row in set (0.00 sec)
```

```
mysql> min sal and max(sal)????????????
```

```
select max(sal),min(sal)
```

```
-> from emp;
```

```
+-----+-----+
```



```

| max(sal) | min(sal) |
+-----+-----+
| 450000.00 | 30000.00 |
+-----+-----+
1 row in set (0.00 sec)

```

AGGREGATE FUNCTION

Total sal given to all salesman??????/

```

select sum(sal)
  from emp
 where job="salesman";
+-----+
| sum(sal) |
+-----+
| 130000.00 |
+-----+
1 row in set (0.00 sec)

```

Avg,sum,min,max of sal where fname start from k or r??????/

```

select avg(sal),sum(sal),max(sal),min(sal)
  from emp
 where fname like "k%" or fname like "r%";
+-----+-----+-----+
| avg(sal) | sum(sal) | max(sal) |
+-----+-----+-----+
| 55000.000000 | 220000.00 | 100000.00 |
+-----+-----+-----+
1 row in set (0.00 sec)

```

No of emp working as salesman or manager??????/

```

select count(*)
-> from emp
-> where job in ("salesman","manager");
+-----+
| count(*) |
+-----+
|      5 |
+-----+
1 row in set (0.00 sec)

```

NO OF EMP WORKIN IN DNO 111 OR 113 AND FNMAE IS START R NOT AS FEMAN???

```

SELECT COUNT(*)
-> FROM EMP
-> WHERE DNO IN( 111,113) AND FNAME LIKE "R%" AND GENDER != "F";
+-----+
| COUNT(*) |
+-----+
|      1 |
+-----+

```

1 row in set (0.00 sec)

SL >50000 AND BORN ON 07 AND NOT COMM?

```
SELECT COUNT(*)
```

```
-> FROM EMP
```

```
-> WHERE SAL>50000 AND DOB LIKE "%-07" AND COMM IS NULL;
```

```
+-----+
| COUNT(*) |
+-----+
|      1 |
+-----+
```

1 row in set (0.00 sec)

WRITE A QUERY OF DIFFERENT JOBROLE PRESENT IN EMP TABLE?

```
SELECT DISTINCT JOB
```

```
-> FROM EMP;
```

```
+-----+
| JOB      |
+-----+
| MANAGER  |
| DISPATCHER |
| TESTER   |
| SALESMAN |
| DEVELOPER |
| ACCOUNTANT |
+-----+
```

6 rows in set (0.00 sec)

```
mysql> SELECT COUNT(DISTINCT JOB)
```

```
-> FROM EMP;
```

```
+-----+
| COUNT(DISTINCT JOB) |
+-----+
|           6 |
+-----+
```

1 row in set (0.00 sec)

GROUP BY

Wqtd no of emps working in each dept???

```
select count(*)
```

```
-> from emp
```

```
-> group by dno=110;
```

```
+-----+
| count(*) |
+-----+
|      9 |
|      4 |
+-----+
```

2 rows in set (0.00 sec)

```
mysql> select count(*),dno
```

```
-> from emp
```

```
-> group by dno;
```

```
+-----+-----+
| count(*) | dno |
+-----+-----+
|      4 | 111 |
|      4 | 110 |
|      3 | 113 |
|      1 | 112 |
|      1 | 115 |
+-----+-----+
```

TOTAL SAL SPENT BY THE COMPANY IN EACH JOB ROLE SAL,MAN,DEV ?

```
SELECT SUM(SAL), JOB
```

```
-> FROM EMP
```

```
-> WHERE JOB IN ('MANAGER', 'SALESMAN', 'DEVELOPER')
```

```
-> GROUP BY JOB;
```

```
+-----+-----+
| SUM(SAL) | JOB |
+-----+-----+
| 190000.00 | MANAGER |
| 130000.00 | SALESMAN |
|  62000.00 | DEVELOPER |
+-----+-----+
```

3 rows in set (0.00 sec)

HAVING CLAUSE

What max sal given to each dept if the emp is getting sal more than 2500 and max sal more than 50000?

```
select max(sal),dno
```

```
-> from emp
```

```
-> where sal>25000
```

```
-> group by dno
```

```
-> having max(sal)>50000;
```

```
+-----+-----+
| max(sal) | dno |
+-----+-----+
| 100000.00 | 111 |
| 450000.00 | 110 |
| 450000.00 | 113 |
+-----+-----+
```

3 rows in set (0.00 sec)

```
select avg(sal),sum(sal)
```

```
-> from emp
```

```
-> group by dno
```

-> having avg(sal)>40000;

```
+-----+-----+
| avg(sal) | sum(sal) |
+-----+-----+
| 57500.000000 | 230000.00 |
| 158750.000000 | 635000.00 |
| 170666.666667 | 512000.00 |
+-----+-----+
3 rows in set (0.01 sec)
```

Max sal,min sal,,no of emp woring in each dept if dept contains atleast 3vemp working in it and sal > 32000

```
select max(sal),min(sal),count(*),dno
-> from emp
-> where sal>32000
-> group by dno
-> having count(*)>=3;
```

```
+-----+-----+-----+
| max(sal) | min(sal) | count(*) |
+-----+-----+-----+
| 100000.00 | 40000.00 | 4 |
| 450000.00 | 45000.00 | 4 |
+-----+-----+-----+
```

2 rows in set (0.00 sec)

Mix sal,min sal given to each dept if the dept has min sal >30000 and max sal <500000?????

```
select max(sal),min(sal),dno
-> from emp
-> group by dno
-> having min(sal)>30000 and max(sal)<500000;
```

```
+-----+-----+-----+
| max(sal) | min(sal) | dno |
+-----+-----+-----+
| 100000.00 | 40000.00 | 111 |
| 450000.00 | 45000.00 | 110 |
| 32000.00 | 32000.00 | 112 |
+-----+-----+-----+
```

3 rows in set (0.00 sec)

Wqtd number of emp who are getting same sal???????????

```
SELECT sal, COUNT(*) AS num_of_employees
FROM emp
GROUP BY sal
HAVING COUNT(*) > 1;
```

```
+-----+-----+
| sal | num_of_employees |
+-----+-----+
| 450000.00 | 2 |
| 45000.00 | 3 |
| 30000.00 | 2 |
| 32000.00 | 2 |
+-----+-----+
```

4 rows in set (0.00 sec)

Wqtd no of emp having same gender and working in same dept??????????

```
select count(*),gender,dno
-> from emp
-> group by gender,dno
-> having count(*) >1;
```

count(*)	gender	dno
3	m	111
3	m	110
3	f	113

3 rows in set (0.00 sec)

mysql>order by

```
select * from emp
-> order by sal desc;
```

EID	FNAME	LNAME	DOB	GENDER	JOB	MGR	DOJ	SAL	COMM	DNO	CID
1801	JAHNAVI	NAIK	1996-04-11	f	DISPATCHER	1702	2020-02-15	450000.00	1000.00	110	NULL
1901	SHIVANI	RAI	1998-11-07	f	TESTER	2201	2019-12-12	450000.00	NULL	113	502
1701	RAHUL	MUKARJEE	1991-02-19	m	MANAGER	1702	2017-04-17	100000.00	NULL	111	NULL
1702	SAMEER	KHAN	1995-04-20	m	MANAGER	2001	2017-07-07	90000.00	NULL	110	NULL
1902	ABHIJIT	GOWDA	1997-12-25	m	DISPATCHER	1702	2019-02-28	50000.00	NULL	110	505
1903	KARAN	BHAT	1997-12-26	m	SALESMAN	1701	2019-12-26	45000.00	NULL	111	506
2001	MURALI	KRISHNAN	1998-06-08	m	DISPATCHER	2201	2020-03-15	45000.00	1000.00	110	NULL
2101	RASHMI	GONDA	1995-10-03	f	SALESMAN	1701	2021-01-02	45000.00	3000.00	111	NULL
2104	AMAN	RAI	1998-08-15	m	SALESMAN	1701	2021-12-26	40000.00	NULL	111	NULL
2102	FARIYA	TAJ	1999-01-03	f	DEVELOPER	2001	2021-03-01	32000.00	3600.00	113	NULL
2103	PRIYA	SHETTY	1998-03-20	f	ACCOUNTANT	2001	2021-05-01	32000.00	3600.00	112	NULL
2002	DHARANI	PATIL	1998-11-10	f	DEVELOPER	2001	2021-06-20	30000.00	3000.00	113	NULL

```
| 2201 | KIRAN | RAJ | 1999-09-21 | m | ACCOUNTANT | NULL | 2022-08-28 |
30000.00 | 3600.00 | 115 | 503 |
```

```
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
----+
```

13 rows in set (0.00 sec)

mysql>

If the emp is workin as salesman,manager and arrange fnmae based on alpabetical order??????????/

```
select fname,lname,job
```

```
-> from emp
```

```
-> where job in ("manager","salesman")
```

```
-> order by fname asc;
```

```
+-----+-----+-----+
```

```
| fname | lname | job |
```

```
+-----+-----+-----+
```

```
| AMAN | RAI | SALESMAN |
```

```
| KARAN | BHAT | SALESMAN |
```

```
| RAHUL | MUKARJEE | MANAGER |
```

```
| RASHMI | GONDA | SALESMAN |
```

```
| SAMEER | KHAN | MANAGER |
```

```
+-----+-----+-----+
```

5 rows in set (0.00 sec)

No of empwho e

```
SELECT COUNT(*), sal, job
```

```
-> FROM emp
```

```
-> WHERE sal > 30000
```

```
-> GROUP BY sal, job
```

```
-> HAVING COUNT(*) > 1
```

```
-> ORDER BY sal ASC;
```

```
+-----+-----+-----+
```

```
| COUNT(*) | sal | job |
```

```
+-----+-----+-----+
```

```
| 2 | 45000.00 | SALESMAN |
```

```
+-----+-----+-----+
```

1 row in set (0.00 sec)

mysql>wqtd details of first 3 emp from emp table???????

```
select * from emp
```

```
-> limit 3;
```

```
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
----+
```

```
----+
```

```
| EID | FNAME | LNAME | DOB | GENDER | JOB | MGR | DOJ | SAL |
```

```
COMM | DNO | CID |
```

```
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
----+
```

```
----+
```

```
| 1701 | RAHUL | MUKARJEE | 1991-02-19 | m | MANAGER | 1702 | 2017-04-17 |
```

```
100000.00 | NULL | 111 | NULL |
```

```
| 1702 | SAMEER | KHAN | 1995-04-20 | m | MANAGER | 2001 | 2017-07-07 |
90000.00 | NULL | 110 | NULL |
| 1801 | JAHNAVI | NAIK | 1996-04-11 | f | DISPATCHER | 1702 | 2020-02-15 |
450000.00 | 1000.00 | 110 | NULL |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
---+
3 rows in set (0.00 sec)
```

1 recrd details?
select * from emp
-> limit 1;

```
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| EID | FNAME | LNAME | DOB | GENDER | JOB | MGR | DOJ | SAL | COMM |
| DNO | CID |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| 1701 | RAHUL | MUKARJEE | 1991-02-19 | m | MANAGER | 1702 | 2017-04-17 |
100000.00 | NULL | 111 | NULL |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
1 row in set (0.00 sec)
```

2 recd from the emp tab;e?????/

SELECT * FROM emp
-> LIMIT 1 OFFSET 1;

```
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| EID | FNAME | LNAME | DOB | GENDER | JOB | MGR | DOJ | SAL | COMM |
| DNO | CID |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| 1702 | SAMEER | KHAN | 1995-04-20 | m | MANAGER | 2001 | 2017-07-07 | 90000.00
| NULL | 110 | NULL |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
1 row in set (0.00 sec)
```

mysql>6 and 7

select * from emp
-> limit 2 offset 5;

```
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
--+
| EID | FNAME | LNAME | DOB | GENDER | JOB | MGR | DOJ | SAL |
COMM | DNO | CID |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
--+
| 1903 | KARAN | BHAT | 1997-12-26 | m | SALESMAN | 1701 | 2019-12-26 |
45000.00 | NULL | 111 | 506 |
| 2001 | MURALI | KRISHNAN | 1998-06-08 | m | DISPATCHER | 2201 | 2020-03-15 |
45000.00 | 1000.00 | 110 | NULL |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
--+
2 rows in set (0.00 sec)
```

Last 5 record

select * from emp
-> order by eid desc
-> limit 5;

```

+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
+
| EID | FNAME | LNAME | DOB      | GENDER | JOB      | MGR | DOJ      | SAL      |
COMM   | DNO | CID |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
+
| 2201 | KIRAN | RAJ   | 1999-09-21 | m      | ACCOUNTANT | NULL | 2022-08-28 |
30000.00 | 3600.00 | 115 | 503 |
| 2104 | AMAN  | RAI   | 1998-08-15 | m      | SALESMAN   | 1701 | 2021-12-26 | 40000.00
| NULL | 111 | NULL |
| 2103 | PRIYA | SHETTY | 1998-03-20 | f      | ACCOUNTANT | 2001 | 2021-05-01 |
32000.00 | 3600.00 | 112 | NULL |
| 2102 | FARIYA | TAJ   | 1999-01-03 | f      | DEVELOPER  | 2001 | 2021-03-01 | 32000.00 |
3600.00 | 113 | NULL |
| 2101 | RASHMI | GONDA | 1995-10-03 | f      | SALESMAN   | 1701 | 2021-01-02 |
45000.00 | 3000.00 | 111 | NULL |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
+
5 rows in set (0.00 sec)
limit 5 offset 8;

```

WQTD THIRD MAXIMUM SALARY FROM EMP TABLE.

=>

```

select distinct sal
-> from emp
-> order by sal desc
-> limit 1 offset 2;

```

```

+-----+
| sal      |
+-----+
| 90000.00 |
+-----+
1 row in set (0.00 sec)
WQTD 5TH MINIMUM SALARY FROM EMP TABLE?

```

=>

```

SELECT DISTINCT SAL
FROM EMP
ORDER BY SAL ASC
LIMIT 1 OFFSET 4;

```

```

+-----+
| SAL      |
+-----+
| 50000.00 |
+-----+
1 row in set (0.00 sec)

```

mysql>

82.WQTD 4TH MAXIMUM SALARY.

=>

```
SELECT DISTINCT SAL
FROM EMP
ORDER BY SAL DESC
LIMIT 1 OFFSET 3;
```

```
+-----+
| SAL   |
+-----+
| 50000.00 |
+-----+
1 row in set (0.00 sec)
```

```
SELECT CONCAT('MR/MISS ',FNAME,' YOUR SALARY IS ', SAL,'RS.')
FROM EMP;
```

```
+-----+
| CONCAT('MR/MISS ',FNAME,' YOUR SALARY IS ', SAL,'RS.') |
+-----+
| MR/MISS RAHUL YOUR SALARY IS 100000.00RS.      |
| MR/MISS SAMEER YOUR SALARY IS 90000.00RS.      |
| MR/MISS JAHNAVI YOUR SALARY IS 450000.00RS.    |
| MR/MISS SHIVANI YOUR SALARY IS 450000.00RS.    |
| MR/MISS ABHIJIT YOUR SALARY IS 50000.00RS.     |
| MR/MISS KARAN YOUR SALARY IS 45000.00RS.       |
| MR/MISS MURALI YOUR SALARY IS 45000.00RS.      |
| MR/MISS DHARANI YOUR SALARY IS 30000.00RS.     |
| MR/MISS RASHMI YOUR SALARY IS 45000.00RS.     |
| MR/MISS FARIYA YOUR SALARY IS 32000.00RS.     |
| MR/MISS PRIYA YOUR SALARY IS 32000.00RS.       |
| MR/MISS AMAN YOUR SALARY IS 40000.00RS.       |
| MR/MISS KIRAN YOUR SALARY IS 30000.00RS.      |
+-----+
13 rows in set (0.00 sec)
```

83.WQTD FNAME,LNAME TOGETHER AS FULL NAME BASED ON BELOW FORMAT.
FULL NAME:KICCHA SUDEEP

```
SELECT CONCAT('KICCHA SUDEEP');
=>
SELECT CONCAT(FNAME,' ',LNAME) AS 'FULL NAME'
FROM EMP;
```

84.WQTD DETAILS OF THE EMPS WHOSE FNAME STARTS WITH K??

```
=>
SELECT *
FROM EMP
WHERE SUBSTR(FNAME,1,1)='K';
+-----+-----+-----+-----+-----+-----+-----+-----+
| EID | FNAME | LNAME | DOB   | GENDER | JOB   | MGR | DOJ   | SAL   | COMM |
+-----+-----+-----+-----+-----+-----+-----+-----+
| DNO | CID |
```

1903	KARAN	BHAT	1997-12-26	m	SALESMAN	1701	2019-12-26	45000.00
	NULL	111	506					
2201	KIRAN	RAJ	1999-09-21	m	ACCOUNTANT	NULL	2022-08-28	30000.00
	3600.00	115	503					

85.WQTD FNAME OF THE EMPS WHOSE FNAME ENDS WITH R?

=>

```
SELECT FNAME
FROM EMP
WHERE SUBSTR(FNAME,-1,1)='R';
```

FNAME
SAMEER

86.WQTD DETAILS OF THE EMPS WHOSE FNAME STARTS WITH VOWELS?

=>

```
SELECT *
FROM EMP
WHERE SUBSTR(FNAME,1,1) IN ('A','E','I','O','U');
```

EID	FNAME	LNAME	DOB	GENDER	JOB	MGR	DOJ	SAL	COMM	DNO	CID
1902	ABHIJIT	GOWDA	1997-12-25	m	DISPATCHER	1702	2019-02-28	50000.00	NULL	110	505
2104	AMAN	RAI	1998-08-15	m	SALESMAN	1701	2021-12-26	40000.00	NULL	111	NULL

2 rows in set (0.00 sec)

87.WQTD DETAILS OF THE EMPS WHOSE LNAME IS NOT ENDING WITH VOWEL.

=>

```
SELECT *
FROM EMP
WHERE SUBSTR(LNAME,-1,1)NOT IN('A','E','I','O','U');
SELECT *
-> FROM EMP
-> WHERE SUBSTR(LNAME,-1,1)NOT IN('A','E','I','O','U');
```

EID	FNAME	LNAME	DOB	GENDER	JOB	MGR	DOJ	SAL	COMM	DNO	CID
-----	-------	-------	-----	--------	-----	-----	-----	-----	------	-----	-----

```

| 1702 | SAMEER | KHAN | 1995-04-20 | m | MANAGER | 2001 | 2017-07-07 |
90000.00 | NULL | 110 | NULL |
| 1801 | JAHNAVI | NAIK | 1996-04-11 | f | DISPATCHER | 1702 | 2020-02-15 |
450000.00 | 1000.00 | 110 | NULL |
| 1903 | KARAN | BHAT | 1997-12-26 | m | SALESMAN | 1701 | 2019-12-26 |
45000.00 | NULL | 111 | 506 |
| 2001 | MURALI | KRISHNAN | 1998-06-08 | m | DISPATCHER | 2201 | 2020-03-15 |
45000.00 | 1000.00 | 110 | NULL |
| 2002 | DHARANI | PATIL | 1998-11-10 | f | DEVELOPER | 2001 | 2021-06-20 |
30000.00 | 3000.00 | 113 | NULL |
| 2102 | FARIYA | TAJ | 1999-01-03 | f | DEVELOPER | 2001 | 2021-03-01 | 32000.00
| 3600.00 | 113 | NULL |
| 2103 | PRIYA | SHETTY | 1998-03-20 | f | ACCOUNTANT | 2001 | 2021-05-01 |
32000.00 | 3600.00 | 112 | NULL |
| 2201 | KIRAN | RAJ | 1999-09-21 | m | ACCOUNTANT | NULL | 2022-08-28 |
30000.00 | 3600.00 | 115 | 503 |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
----+
8 rows in set (0.00 sec)

```

88.wqtd DETAILS OF EMP WHO APON IN THE YEAR 1999?

```

=>
SELECT *
FROM EMP
WHERE SUBSTR(DOB,1,4)='1999';
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| EID | FNAME | LNAME | DOB | GENDER | JOB | MGR | DOJ | SAL | COMM |
| DNO | CID |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| 2102 | FARIYA | TAJ | 1999-01-03 | f | DEVELOPER | 2001 | 2021-03-01 | 32000.00 |
3600.00 | 113 | NULL |
| 2201 | KIRAN | RAJ | 1999-09-21 | m | ACCOUNTANT | NULL | 2022-08-28 | 30000.00 |
3600.00 | 115 | 503 |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+

```

89.WQTD FNAME,LNAME,DOJ IF THE EMP JOIN IN THE MONTH OF APRIL,MAY,JUNE OR JULY?

```

=>
SELECT FNAME,LNAME,DOJ
FROM EMP
WHERE SUBSTR(DOJ,6,2) IN (04,05,06,07);
+-----+-----+-----+
| FNAME | LNAME | DOJ |
+-----+-----+-----+
| RAHUL | MUKARJEE | 2017-04-17 |
| SAMEER | KHAN | 2017-07-07 |
| DHARANI | PATIL | 2021-06-20 |
| PRIYA | SHETTY | 2021-05-01 |
+-----+-----+-----+

```

4 rows in set (0.00 sec)

90.WQTD FNAME,JOB IF THE JOB IS STARTING WITH STRING SAL OR MANA?

=>

```
SELECT FNAME,JOB
FROM EMP
WHERE SUBSTR(JOB,1,3)='SAL' OR SUBSTR(JOB,1,4)='MANA';
```

FNAME	JOB
RAHUL	MANAGER
SAMEER	MANAGER
KARAN	SALESMAN
RASHMI	SALESMAN
AMAN	SALESMAN

5 rows in set (0.00 sec)

91WQTD DETAILS F EMPS WHOS REVERSED FNAME MATCHES WITH THE STRING NAMA?

=>

```
SELECT *
FROM EMP
WHERE REVERSE(FNAME)='NAMA';
```

EID	FNAME	LNAME	DOB	GENDER	JOB	MGR	DOJ	SAL	COMM
2104	AMAN	RAI	1998-08-15	m	SALESMAN	1701	2021-12-26	40000.00	NULL

92.WQT EXTARCT INITAILS FROM FULL NAME IN BELOW FORMAT

FULL NAME : SHARUKH KHAN : S.K.

=>

```
SELECT CONCAT(SUBSTR(FNAME,1,1),'.',SUBSTR(LNAME,1,1),'.') AS 'FULL NAME'
FROM EMP;
```

FULL NAME
R.M.
S.K.
J.N.
S.R.
A.G.
K.B.
M.K.
D.P.
R.G.

F.T.
P.S.
A.R.
K.R.
+-----+

13 rows in set (0.00 sec)

93.WQTD FIRST HALF OF FNAME FROM EMP TABLE?

=>

```
SELECT SUBSTR(FNAME,1,LENGTH(FNAME)/2)
FROM EMP;
```

+-----+
SUBSTR(FNAME,1,LENGTH(FNAME)/2)
+-----+

RAH
SAM
JAHN
SHIV
ABHI
KAR
MUR
DHAR
RAS
FAR
PRI
AM
KIR

+-----+

13 rows in set (0.00 sec)

94.WQTD SECOND HALF OF FNAME FROM EMP TABLE?

=>

```
SELECT SUBSTR(FNAME,1+LENGTH(FNAME)/2)
FROM EMP;
```

+-----+
SUBSTR(FNAME,1+LENGTH(FNAME)/2)
+-----+

UL
EER
AVI
ANI
JIT
AN
ALI
ANI
HMI
IYA
YA
AN

```
| AN |
+-----+
13 rows in set (0.00 sec)
```

mysql>

95.WQTD FIRST HALF OF FNAME IN LOWER CASE AND SECOND HALF OF FNAME IN REVERSE
FORMAT BASED ON SAMPLE OP;
SAMPLE O/P; RAHUL : rahLU

```
=>
SELECT
CONCAT(LOWER(SUBSTR(FNAME,1,LENGTH(FNAME)/2)),REVERSE(SUBSTR(FNAME,1+LENGTH(FNAME)/2)))
FROM EMP;
```

```
+-----+
|
CONCAT(LOWER(SUBSTR(FNAME,1,LENGTH(FNAME)/2)),REVERSE(SUBSTR(FNAME,1+LENGTH(FNAME)/2))) |
+-----+
| rahLU |
| samREE |
| jahnIVA |
| shivINA |
| abhiTIJ |
| karNA |
| murILA |
| dharINA |
| rasIMH |
| farAYI |
| priAY |
| amNA |
| kirNA |
+-----+
13 rows in set (0.00 sec)
```

96.WQTD FNAME AND PASSWORD ,THE PASSWORD MUST CONATIN BELOW CONDITION

- 1.FIRST 3 CHARCTAER OF FNAME
- 2.LENGTH OF FNAME
- 3.LAST 3 DIGIT OF EID

```
=>
SELECT FNAME,CONCAT(SUBSTR(FNAME,1,3),LENGTH(FNAME),SUBSTR(EID,-3)) AS
PASSWORD
FROM EMP;
| FNAME | PASSWORD |
+-----+
| RAHUL | RAH5701 |
| SAMEER | SAM6702 |
| JAHNAVI | JAH7801 |
```

SHIVANI	SHI7901
ABHIJIT	ABH7902
KARAN	KAR5903
MURALI	MUR6001
DHARANI	DHA7002
RASHMI	RAS6101
FARIYA	FAR6102
PRIYA	PRI5103
AMAN	AMA4104
KIRAN	KIR5201

+-----+-----+

97.WQTD FNAME AND PASSWORD FOR ABHIJIT AND PRIYA THE PASSWORD CONTAIN BELOW CONDITION

- 1.SECOND HALF OF FNAME'
- 2.LENTH OF LNAME
- 3.REVESE LAST 3 DIGITS OF MGR
4. LAST 2 DIGITS OF EID

=>

FNAME	PASSWORD
-------	----------

+-----+-----+

RAHUL	UL820701
SAMEER	EER410002
JAHNAVI	AVI420701
SHIVANI	ANI310201
ABHIJIT	JIT520702
KARAN	AN410703
MURALI	ALI810201
DHARANI	ANI510002
RASHMI	HMI510701
FARIYA	IYA310002
PRIYA	YA610003
AMAN	AN310704
KIRAN	NULL

+-----+-----+

```
SELECT
FNAME,CONCAT(SUBSTR(FNAME,1+LENGTH(FNAME)/2),LENGTH(LNAME),REVERSE(SUBSTR(
MGR,-3)),SUBSTR(EID,-2)) AS PASSWORD
FROM EMP
WHERE FNAME IN ('ABHIJIT','PRIYA');
```

FNAME	PASSWORD
-------	----------

+-----+-----+

ABHIJIT	JIT520702
PRIYA	YA610003

+-----+-----+

Wqtd replace A and I WITH [A] AND [I] IN FNAME???

```
select REPLACE(replace(fname,'A','[A]'),'I','[I]')
```

-> FROM EMP;

```
+-----+
| REPLACE(replace(fname,'A','[A]'),'I','[I]) |
+-----+
| R[A]HUL |
| S[A]MEER |
| J[A]HN[A]V[I] |
| SH[I]V[A]N[I] |
| [A]BH[I]J[I]T |
| K[A]R[A]N |
| MUR[A]L[I] |
| DH[A]R[A]N[I] |
| R[A]SHM[I] |
| F[A]R[I]Y[A] |
| PR[I]Y[A] |
| [A]M[A]N |
| K[I]R[A]N |
+-----+
```

13 rows in set (0.00 sec)

WQTD THE COUNT OF LETTER A IN MALAYALAM????????/

mysql>

SELECT LENGTH('MALAYALAM') - LENGTH(REPLACE('MALAYALAM', 'A', '')) AS A_count;

```
+-----+
| A_count |
+-----+
| 4 |
+-----+
```

FNAME CONTAINS EXACTLUY 1 A???????????????

SELECT FNAME FROM EMP

-> WHERE LENGTH(FNAME)-LENGTH(REPLACE(FNAME, 'A', ''))=1;

```
+-----+
| FNAME |
+-----+
| RAHUL |
| SAMEER |
| SHIVANI |
| ABHIJIT |
| MURALI |
| RASHMI |
| PRIYA |
| KIRAN |
+-----+
```

8 rows in set (0.00 sec)

MOD

WQTD DETAILS OF EMP THOSE WHO HAVE EVEN EID?????


```
SELECT * FROM EMP
WHERE MOD(EID,2)=0;
```

```
+-----+-----+-----+-----+-----+-----+-----+-----+
+
| EID | FNAME | LNAME | DOB      | GENDER | JOB      | MGR | DOJ      | SAL      |
COMM      | DNO | CID |
+-----+-----+-----+-----+-----+-----+-----+-----+
+
| 1702 | SAMEER | KHAN | 1995-04-20 | m      | MANAGER | 2001 | 2017-07-07 |
90000.00 | NULL | 110 | NULL |
| 1902 | ABHIJIT | GOWDA | 1997-12-25 | m      | DISPATCHER | 1702 | 2019-02-28 |
50000.00 | NULL | 110 | 505 |
| 2002 | DHARANI | PATIL | 1998-11-10 | f      | DEVELOPER | 2001 | 2021-06-20 | 30000.00
| 3000.00 | 113 | NULL |
| 2102 | FARIYA | TAJ | 1999-01-03 | f      | DEVELOPER | 2001 | 2021-03-01 | 32000.00 |
3600.00 | 113 | NULL |
| 2104 | AMAN | RAI | 1998-08-15 | m      | SALESMAN | 1701 | 2021-12-26 | 40000.00
| NULL | 111 | NULL |
+-----+-----+-----+-----+-----+-----+-----+-----+
+
5 rows in set (0.00 sec)
```

```
mysql>
```

06 May 2025
09:09

ROUND

```
select round(123.45);
```

```
+-----+  
| round(123.45) |  
+-----+  
|      123      |  
+-----+
```

1 row in set (0.00 sec)

```
mysql> select round(123.4567,2);
```

```
+-----+  
| round(123.4567,2) |  
+-----+  
|      123.46      |  
+-----+
```

1 row in set (0.00 sec)

```
mysql> select round(123.4567345,4);
```

```
+-----+  
| round(123.4567345,4) |  
+-----+  
|      123.4567      |  
+-----+
```

1 row in set (0.00 sec)

Wqt avg sal obtained in each dept & dound of 2 decimal point

```
select round(avg(sal),2),dno  
-> from emp  
-> group by dno;
```

```
+-----+-----+  
| round(avg(sal),2) | dno |  
+-----+-----+  
|      57500.00    | 111 |  
|     158750.00    | 110 |  
|     170666.67    | 113 |  
|      32000.00    | 112 |  
|      30000.00    | 115 |  
+-----+-----+
```

5 rows in set (0.00 sec)

CEIL()

```
select ceil(4.1);
```

```
+-----+  
| ceil(4.1) |  
+-----+
```

```
|      5 |  
+-----+  
1 row in set (0.00 sec)
```

```
mysql> select ceil(-4.1);  
+-----+  
| ceil(-4.1) |  
+-----+  
|      -4 |  
+-----+  
1 row in set (0.00 sec)
```

FLOOR

```
SELECT FLOOR(67.6);  
+-----+  
| FLOOR(67.6) |  
+-----+  
|      67 |  
+-----+  
1 row in set (0.00 sec)
```

```
mysql> SELECT FLOOR(-67.6);  
+-----+  
| FLOOR(-67.6) |  
+-----+  
|      -68 |  
+-----+  
1 row in set (0.00 sec)
```

```
SELECT TRUNCATE(1234.567,2);  
+-----+  
| TRUNCATE(1234.567,2) |  
+-----+  
|      1234.56 |  
+-----+  
1 row in set (0.00 sec)
```

```
mysql> SELECT POW(8,2);  
+-----+  
| POW(8,2) |  
+-----+  
|      64 |  
+-----+
```

SQRT

```
1 row in set (0.00 sec)  
SELECT SQRT(64);  
+-----+  
| SQRT(64) |  
+-----+  
|      8 |  
+-----+
```

1 row in set (0.00 sec)

```
mysql> SELECT SQRT(-64);
```

```
+-----+  
| SQRT(-64) |
```

```
+-----+  
|      NULL |
```

```
+-----+  
1 row in set (0.00 sec)
```

```
mysql> CURDATE
```

```
SELECT CURDATE();
```

```
+-----+  
| CURDATE() |
```

```
+-----+  
| 2025-05-06 |
```

```
+-----+  
1 row in set (0.00 sec)
```

DAY,MONTH, YEAR

```
SELECT DAY('2022-09-21');
```

```
+-----+  
| DAY('2022-09-21') |
```

```
+-----+  
|          21 |
```

```
+-----+  
1 row in set (0.00 sec)
```

ADD 3 YEAR FOR BELOW DATE???????????

```
SELECT DATE_ADD('2022-09-24',INTERVAL 3 YEAR);
```

```
+-----+  
| DATE_ADD('2022-09-24',INTERVAL 3 YEAR) |
```

```
+-----+  
| 2025-09-24 |
```

```
+-----+  
1 row in set (0.00 s)
```

ADD 6 YEAR ,7 MONTH BELOW DATE??????????//

```
SELECT DATE_ADD(DATE_ADD('1995-05-10', INTERVAL 6 YEAR), INTERVAL 7 MONTH);
```

```
+-----+  
| DATE_ADD(DATE_ADD('1995-05-10', INTERVAL 6 YEAR), INTERVAL 7 MONTH) |
```

```
+-----+  
| 2001-12-10 |
```

```
+-----+  
1 row in set (0.00 sec)
```

```
mysql>SUB 3 YEAR,11 MONTH,AND 20 DAY
```

```
SELECT DATE_SUB(DATE_SUB(DATE_SUB('2025-05-06', INTERVAL 3 YEAR) ,INTERVAL 11  
MONTH), INTERVAL 20 DAY);
```

```
+-----+
```

```
| DATE_SUB(DATE_SUB(DATE_SUB('2025-05-06', INTERVAL 3 YEAR),INTERVAL 11 MONTH),  
INTERVAL 20 DAY) |
```

```
+-----+  
| 2021-05-17 |  
+-----+
```

1 row in set (0.00 sec)

EMP THOSE WHO BORN IN THE YEAR 1995 AND NON OF APRIL

```
SELECT * FROM EMP
```

```
-> WHERE YEAR(DOB) = 1995 AND MONTH(DOB) = 4;
```

```
+-----+-----+-----+-----+-----+-----+-----+-----+-----+  
| EID | FNAME | LNAME | DOB      | GENDER | JOB      | MGR | DOJ      | SAL      | COMM |  
DNO | CID |  
+-----+-----+-----+-----+-----+-----+-----+-----+-----+  
| 1702 | SAMEER | KHAN  | 1995-04-20 | m      | MANAGER | 2001 | 2017-07-07 | 90000.00 |  
| NULL | 110 | NULL |  
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
```

1 row in set (0.00 sec)

WQTS ADD 2 YEAR FOR THE FIRST EMP JOINED DATW

```
SELECT DATE_ADD(DOJ,INTERVAL 2 YEAR)
```

```
-> FROM EMP
```

```
-> ORDER BY DOJ ASC
```

```
-> LIMIT 1;
```

```
SELECT DATE_ADD( MIN(DOJ),INTERVAL 2 YEAR)
```

```
-> FROM EMP;
```

DATE FORMAT

```
+-----+  
| DATE_ADD(DOJ,INTERVAL 2 YEAR) |  
+-----+  
| 2019-04-17 |  
+-----+
```

1 row in set (0.00 sec)

```
select date_format(sysdate(), "%r");
```

```
+-----+  
| date_format(sysdate(), "%r") |  
+-----+  
| 09:31:20 AM |  
+-----+
```

1 row in set (0.00 sec)

```
mysql> select date_format(sysdate(), "%p");
```

```
+-----+  
| date_format(sysdate(), "%p") |  
+-----+  
| AM |  
+-----+
```

1 row in set (0.00 sec)

```
mysql> select date_format(sysdate(), "%T");
```

```
+-----+  
| date_format(sysdate(), "%T") |  
+-----+  
| 09:31:55 |  
+-----+
```

1 row in set (0.00 sec)

```
l> select date_format(sysdate(), "%H");
```

```
+-----+  
| date_format(sysdate(), "%H") |  
+-----+  
| 09 |  
+-----+
```

1 row in set (0.00 sec)

```
mysql> select date_format(sysdate(), "%h");
```

```
+-----+  
| date_format(sysdate(), "%h") |  
+-----+  
| 09 |  
+-----+
```

1 row in set (0.00 sec)

```
mysql> select date_format(sysdate(), "%i");
```

```
+-----+  
| date_format(sysdate(), "%i") |  
+-----+  
| 34 |  
+-----+
```

1 row in set (0.00 sec)

```
select date_format(sysdate(), "%s");
```

```
+-----+  
| date_format(sysdate(), "%s") |  
+-----+  
| 58 |  
+-----+
```

1 row in set (0.00 sec)

Wqtd daye time expresion in below format for for the current date and time??

```
SELECT DATE_FORMAT(SYSDATE(), '%y-%M-%d %W %H %p');
```

```
+-----+  
| DATE_FORMAT(SYSDATE(), '%y-%M-%d %W %H %p') |  
+-----+  
| 25-May-07 Wednesday 09 AM |  
+-----+
```

1 row in set (0.01 sec)

Wqtd details of the the emp were joined in the momth of may june or july???

```
select * from emp
```

-> where month (doj)in(05,06,07);

```
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
-+
| EID | FNAME | LNAME | DOB      | GENDER | JOB      | MGR | DOJ      | SAL      |
COMM   | DNO | CID |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
-+
| 1702 | SAMEER | KHAN   | 1995-04-20 | m      | MANAGER  | 2001 | 2017-07-07 | 90000.00 | NULL | 110 | NULL |
| 2002 | DHARANI | PATIL  | 1998-11-10 | f      | DEVELOPER | 2001 | 2021-06-20 | 30000.00 | 3000.00 | 113 | NULL |
| 2103 | PRIYA  | SHETTY | 1998-03-20 | f      | ACCOUNTANT | 2001 | 2021-05-01 | 32000.00 | 3600.00 | 112 | NULL |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
-+
3 rows in set (0.01 sec)
```

select * from emp

-> where date_format (doj,"%b")in('may','jun','jul');

```
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
-+
| EID | FNAME | LNAME | DOB      | GENDER | JOB      | MGR | DOJ      | SAL      |
COMM   | DNO | CID |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
-+
| 1702 | SAMEER | KHAN   | 1995-04-20 | m      | MANAGER  | 2001 | 2017-07-07 | 90000.00 | NULL | 110 | NULL |
| 2002 | DHARANI | PATIL  | 1998-11-10 | f      | DEVELOPER | 2001 | 2021-06-20 | 30000.00 | 3000.00 | 113 | NULL |
| 2103 | PRIYA  | SHETTY | 1998-03-20 | f      | ACCOUNTANT | 2001 | 2021-05-01 | 32000.00 | 3600.00 | 112 | NULL |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
-+
3 rows in set (0.00 sec)
```

WHO WERE HIERD ON FRIDAY,SATURDAY,SUNDAY????????

select * from emp

-> where date_format(doj,"%W") IN('FRIDAY','SATURDAY','SUNDAY');

```
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
----+
| EID | FNAME | LNAME | DOB      | GENDER | JOB      | MGR | DOJ      | SAL      |
COMM   | DNO | CID |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
----+
| 1702 | SAMEER | KHAN   | 1995-04-20 | m      | MANAGER  | 2001 | 2017-07-07 | 90000.00 | NULL | 110 | NULL |
| 1801 | JAHNAVI | NAIK   | 1996-04-11 | f      | DISPATCHER | 1702 | 2020-02-15 | 450000.00 | 1000.00 | 110 | NULL |
| 2001 | MURALI | KRISHNAN | 1998-06-08 | m      | DISPATCHER | 2201 | 2020-03-15 | 45000.00 | 1000.00 | 110 | NULL |
| 2002 | DHARANI | PATIL  | 1998-11-10 | f      | DEVELOPER | 2001 | 2021-06-20 | 30000.00 | 3000.00 | 113 | NULL |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
```

2101	RASHMI	GONDA	1995-10-03	f	SALESMAN	1701	2021-01-02	45000.00	3000.00	111	NULL
2103	PRIYA	SHETTY	1998-03-20	f	ACCOUNTANT	2001	2021-05-01	32000.00	3600.00	112	NULL
2104	AMAN	RAI	1998-08-15	m	SALESMAN	1701	2021-12-26	40000.00	NULL	111	NULL
2201	KIRAN	RAJ	1999-09-21	m	ACCOUNTANT	NULL	2022-08-28	30000.00	3600.00	115	503

8 rows in set (0.00 sec)

```
SELECT FNAME,DATE_FORMAT(DOB,'%m/%d/%Y') AS 'US DATE FORMAT'
-> FROM EMP;
```

FNAME	US DATE FORMAT
RAHUL	02/19/1991
SAMEER	04/20/1995
JAHNAVI	04/11/1996
SHIVANI	11/07/1998
ABHIJIT	12/25/1997
KARAN	12/26/1997
MURALI	06/08/1998
DHARANI	11/10/1998
RASHMI	10/03/1995
FARIYA	01/03/1999
PRIYA	03/20/1998
AMAN	08/15/1998
KIRAN	09/21/1999

13 rows in set (0.00 sec)

NO OF EMP HIERD IN EACH YEAR AND DISPLAY THE NUMBER MAX TO MIN BASED ON
THERIR COUNT????????????????????

```
mysql> SELECT COUNT(*),YEAR(DOJ)
-> FROM EMP
-> GROUP BY YEAR(DOJ)
-> ORDER BY COUNT(*) DESC;
```

COUNT(*)	YEAR(DOJ)
5	2021
3	2019
2	2017
2	2020
1	2022

5 rows in set (0.00 sec)

WQTD DETAILS OF THE EMPS WHO WERE HIERD IN LEAP YEAR?????????


```
SELECT * FROM EMP
```

```
-> WHERE MOD(YEAR(DOJ),4)=0;
```

```
+-----+-----+-----+-----+-----+-----+-----+-----+
----+
| EID | FNAME | LNAME | DOB   | GENDER | JOB   | MGR | DOJ   | SAL   |
COMM  | DNO  | CID  |
+-----+-----+-----+-----+-----+-----+-----+-----+
----+
| 1801 | JAHNAVI | NAIK   | 1996-04-11 | f   | DISPATCHER | 1702 | 2020-02-15 |
450000.00 | 1000.00 | 110 | NULL |
| 2001 | MURALI | KRISHNAN | 1998-06-08 | m   | DISPATCHER | 2201 | 2020-03-15 |
45000.00 | 1000.00 | 110 | NULL |
+-----+-----+-----+-----+-----+-----+-----+-----+
----+
2 rows in set (0.00 sec)
```

WQTD FNAME AND CURRENT EXPERIENCE OF THE EMP INTERNS OF YEAR?

```
SELECT FNAME , YEAR(CURDATE())-YEAR(DOJ) AS EXPERIENCE
```

```
-> FROM EMP;
```

```
+-----+-----+
| FNAME | EXPERIENCE |
+-----+-----+
| RAHUL | 8 |
| SAMEER | 8 |
| JAHNAVI | 5 |
| SHIVANI | 6 |
| ABHIJIT | 6 |
| KARAN | 6 |
| MURALI | 5 |
| DHARANI | 4 |
| RASHMI | 4 |
| FARIYA | 4 |
| PRIYA | 4 |
| AMAN | 4 |
| KIRAN | 3 |
+-----+-----+
13 rows in set (0.00 sec)
```

Sub query

If the emp are working same as dharani jobe role?

```
select fname,lname,job
```

```
-> from emp
```

```
-> where job=(select job
```

```
-> from emp
```

```
-> where fname='dharani');
```

```
+-----+-----+
| fname | lname | job   |
+-----+-----+
| DHARANI | PATIL | DEVELOPER |
```

```
| FARIYA | TAJ | DEVELOPER |
```

```
+-----+-----+-----+
```

2 rows in set (0.00 sec)

Who were hierd before 2 years of the last hierd emp?

```
Select*
```

```
From emp
```

```
Where doj<(select date_sub(max(doj),interval 2 year)
```

```
From emp);
```

Or

```
Select select date_sub(max(doj),interval 2 year
```

```
From emp
```

```
Order by desc
```

```
Limit 1
```

```
-> From emp);
```

```
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
```

```
----+
```

```
| EID | FNAME | LNAME | DOB | GENDER | JOB | MGR | DOJ | SAL |  
COMM | DNO | CID |
```

```
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
```

```
----+
```

```
| 1701 | RAHUL | MUKARJEE | 1991-02-19 | m | MANAGER | 1702 | 2017-04-17 |  
100000.00 | NULL | 111 | NULL |
```

```
| 1702 | SAMEER | KHAN | 1995-04-20 | m | MANAGER | 2001 | 2017-07-07 |  
90000.00 | NULL | 110 | NULL |
```

```
| 1801 | JAHNAVI | NAIK | 1996-04-11 | f | DISPATCHER | 1702 | 2020-02-15 |  
450000.00 | 1000.00 | 110 | NULL |
```

```
| 1901 | SHIVANI | RAI | 1998-11-07 | f | TESTER | 2201 | 2019-12-12 | 450000.00 |  
NULL | 113 | 502 |
```

```
| 1902 | ABHIJIT | GOWDA | 1997-12-25 | m | DISPATCHER | 1702 | 2019-02-28 |  
50000.00 | NULL | 110 | 505 |
```

```
| 1903 | KARAN | BHAT | 1997-12-26 | m | SALESMAN | 1701 | 2019-12-26 |  
45000.00 | NULL | 111 | 506 |
```

```
| 2001 | MURALI | KRISHNAN | 1998-06-08 | m | DISPATCHER | 2201 | 2020-03-15 |  
45000.00 | 1000.00 | 110 | NULL |
```

```
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
```

```
----+
```

7 rows in set (0.00 sec)

Wqtd details of the emp if the emp fnma 2nd cha is A and emp lname last 2nd char is a and getting sal less than shivani

```
Select * from emp
```

```
Where fname like "_A%" and SUBSTR(LNAME ,-2,1)='A' AND SAL<(Select sal
```

```
From emp
```

```
Where fname='shivani'
```

```
);
```

```
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
```

```
| EID | FNAME | LNAME | DOB | GENDER | JOB | MGR | DOJ | SAL | COMM  
| DNO | CID |
```

```
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
```

1702	SAMEER	KHAN	1995-04-20	m	MANAGER	2001	2017-07-07	90000.00	NULL	110	NULL
1903	KARAN	BHAT	1997-12-26	m	SALESMAN	1701	2019-12-26	45000.00	NULL	111	506
2102	FARIYA	TAJ	1999-01-03	f	DEVELOPER	2001	2021-03-01	32000.00	3600.00	113	NULL

```

+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+

```

3 rows in set (0.00 sec)

DETAILS OF EMP WHO ARE ACTING AS CUSTOMER FOR THERE COMPANY AND HIERED AFTER RAHUL BUT NOT AS MALE?

```

SELECT * FROM EMP
WHERE CID IS NOT NULL AND DOJ> (SELECT DOJ
FROM EMP
WHERE FNAME='RAHUL')AND GENDER !='M';

```

EID	FNAME	LNAME	DOB	GENDER	JOB	MGR	DOJ	SAL	COMM	DNO	CID
-----	-------	-------	-----	--------	-----	-----	-----	-----	------	-----	-----

```

+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+

```

1901	SHIVANI	RAI	1998-11-07	f	TESTER	2201	2019-12-12	450000.00	NULL	113	502
------	---------	-----	------------	---	--------	------	------------	-----------	------	-----	-----

```

+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+

```

1 row in set (0.00 sec)

DETAILS OF THE EMP WHO ARE GETTING 3RD MIN SAL?

```

SELECT * FROM EMP
WHERE SAL=(
SELECT DISTINCT SAL
FROM EMP
ORDER BY SAL ASC
LIMIT 1 OFFSET 2);

```

EID	FNAME	LNAME	DOB	GENDER	JOB	MGR	DOJ	SAL	COMM	DNO	CID
-----	-------	-------	-----	--------	-----	-----	-----	-----	------	-----	-----

```

+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+

```

2104	AMAN	RAI	1998-08-15	m	SALESMAN	1701	2021-12-26	40000.00	NULL	111	NULL
------	------	-----	------------	---	----------	------	------------	----------	------	-----	------

```

+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+

```

1 row in set (0.00 sec)

WQTD DETAILS OF THE EMP WHO ARE ELDER THA N SHIVANI AND GETTING SAL MORE THAN KIRAN???????????

```

SELECT * FROM EMP WHERE DOB<(
SELECT DOB FROM EMP
WHERE FNAME ='SHIVANI' ) AND SAL>(SELECT SAL FROM EMP
WHERE FNAME='KIRAN');

```

```

+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+

```

EID	FNAME	LNAME	DOB	GENDER	JOB	MGR	DOJ	SAL	COMM	DNO	CID
-----	-------	-------	-----	--------	-----	-----	-----	-----	------	-----	-----

```

+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+

```

```

-----+

```

1701	RAHUL	MUKARJEE	1991-02-19	m	MANAGER	1702	2017-04-17
100000.00	NULL	111	NULL				
1702	SAMEER	KHAN	1995-04-20	m	MANAGER	2001	2017-07-07
90000.00	NULL	110	NULL				
1801	JAHNAVI	NAIK	1996-04-11	f	DISPATCHER	1702	2020-02-15
450000.00	1000.00	110	NULL				
1902	ABHIJIT	GOWDA	1997-12-25	m	DISPATCHER	1702	2019-02-28
50000.00	NULL	110	505				
1903	KARAN	BHAT	1997-12-26	m	SALESMAN	1701	2019-12-26
45000.00	NULL	111	506				
2001	MURALI	KRISHNAN	1998-06-08	m	DISPATCHER	2201	2020-03-15
45000.00	1000.00	110	NULL				
2101	RASHMI	GONDA	1995-10-03	f	SALESMAN	1701	2021-01-02
45000.00	3000.00	111	NULL				
2103	PRIYA	SHETTY	1998-03-20	f	ACCOUNTANT	2001	2021-05-01
32000.00	3600.00	112	NULL				
2104	AMAN	RAI	1998-08-15	m	SALESMAN	1701	2021-12-26
40000.00	NULL	111	NULL				

Wgtd of emp who are getting sal more than kiran?//

```

+-----+-----+-----+-----+-----+-----+-----+-----+
----+
| EID | FNAME | LNAME | DOB | GENDER | JOB | MGR | DOJ | SAL |
COMM | DNO | CID |
+-----+-----+-----+-----+-----+-----+-----+-----+
----+
| 1701 | RAHUL | MUKARJEE | 1991-02-19 | m | MANAGER | 1702 | 2017-04-17 |
100000.00 | NULL | 111 | NULL |
| 1702 | SAMEER | KHAN | 1995-04-20 | m | MANAGER | 2001 | 2017-07-07 |
90000.00 | NULL | 110 | NULL |
| 1801 | JAHNAVI | NAIK | 1996-04-11 | f | DISPATCHER | 1702 | 2020-02-15 |
450000.00 | 1000.00 | 110 | NULL |
| 1901 | SHIVANI | RAI | 1998-11-07 | f | TESTER | 2201 | 2019-12-12 | 450000.00 |
NULL | 113 | 502 |
| 1902 | ABHIJIT | GOWDA | 1997-12-25 | m | DISPATCHER | 1702 | 2019-02-28 |
50000.00 | NULL | 110 | 505 |
| 1903 | KARAN | BHAT | 1997-12-26 | m | SALESMAN | 1701 | 2019-12-26 |
45000.00 | NULL | 111 | 506 |
| 2001 | MURALI | KRISHNAN | 1998-06-08 | m | DISPATCHER | 2201 | 2020-03-15 |
45000.00 | 1000.00 | 110 | NULL |
| 2101 | RASHMI | GONDA | 1995-10-03 | f | SALESMAN | 1701 | 2021-01-02 |
45000.00 | 3000.00 | 111 | NULL |

```

2102	FARIYA	TAJ	1999-01-03	f	DEVELOPER	2001	2021-03-01	32000.00
	3600.00	113	NULL					
2103	PRIYA	SHETTY	1998-03-20	f	ACCOUNTANT	2001	2021-05-01	32000.00
	3600.00	112	NULL					
2104	AMAN	RAI	1998-08-15	m	SALESMAN	1701	2021-12-26	40000.00
	NULL	111	NULL					

```

+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
----+
11 rows in set (0.01 sec)

```

mysql>

Wqtd of emp if the emp who were hired after v2 yr of the 1st emp joining date?

Select * from emp

Where doj>(select date_add(min(doj),interval 2 year)

From emp);

EID	FNAME	LNAME	DOB	GENDER	JOB	MGR	DOJ	SAL	COMM	DNO	CID
1801	JAHNAVI	NAIK	1996-04-11	f	DISPATCHER	1702	2020-02-15	450000.00	1000.00	110	NULL
1901	SHIVANI	RAI	1998-11-07	f	TESTER	2201	2019-12-12	450000.00	NULL	113	502
1903	KARAN	BHAT	1997-12-26	m	SALESMAN	1701	2019-12-26	45000.00	NULL	111	506
2001	MURALI	KRISHNAN	1998-06-08	m	DISPATCHER	2201	2020-03-15	45000.00	1000.00	110	NULL
2002	DHARANI	PATIL	1998-11-10	f	DEVELOPER	2001	2021-06-20	30000.00	3000.00	113	NULL
2101	RASHMI	GONDA	1995-10-03	f	SALESMAN	1701	2021-01-02	45000.00	3000.00	111	NULL
2102	FARIYA	TAJ	1999-01-03	f	DEVELOPER	2001	2021-03-01	32000.00	3600.00	113	NULL
2103	PRIYA	SHETTY	1998-03-20	f	ACCOUNTANT	2001	2021-05-01	32000.00	3600.00	112	NULL
2104	AMAN	RAI	1998-08-15	m	SALESMAN	1701	2021-12-26	40000.00	NULL	111	NULL
2201	KIRAN	RAJ	1999-09-21	m	ACCOUNTANT	NULL	2022-08-28	30000.00	3600.00	115	503

Wqtd FNAME ,& lname together as ful, name along with sal ,job & dno if the the emp l
sworling in same dept as karan dept & getting sal more than priya?

Select concat (fname,' ',lname)'full name',sal,job,dno

From emp

Where dno=(select dno

From emp

Where fname='karan')and sal >(select sal

From emp

Where fname='priya');

```

+-----+-----+-----+-----+
| full name | sal | job | dno |
+-----+-----+-----+-----+
| RAHUL MUKARJEE | 100000.00 | MANAGER | 111 |
| KARAN BHAT | 45000.00 | SALESMAN | 111 |
| RASHMI GONDA | 45000.00 | SALESMAN | 111 |
| AMAN RAI | 40000.00 | SALESMAN | 111 |
+-----+-----+-----+-----+

```

DETAILS OF THE EMP WHO ARE GETTING 2RD Max SAL?

```

SELECT * FROM EMP
WHERE SAL=(
SELECT DISTINCT SAL
FROM EMP
ORDER BY SAL desc
LIMIT 1 OFFSET 1);

```

```

+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| EID | FNAME | LNAME | DOB | GENDER | JOB | MGR | DOJ | SAL | COMM |
| DNO | CID |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| 1701 | RAHUL | MUKARJEE | 1991-02-19 | m | MANAGER | 1702 | 2017-04-17 |
100000.00 | NULL | 111 | NULL |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+

```

Wqtd dname & lid of the emp karan??

```

Select dname ,lid
From dept
Where dno=(select dno from emp
Where fname='karan');

```

```

+-----+-----+
| dname | lid |
+-----+-----+
| MARKETING | 1 |
+-----+-----+

```

Wqtd deta of emp who are working in accoting dept?

```

Select * from emp
Where
dno=(select dno from dept
Where dname='accounting');

```

```

+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| EID | FNAME | LNAME | DOB | GENDER | JOB | MGR | DOJ | SAL | COMM |
| DNO | CID |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| 2103 | PRIYA | SHETTY | 1998-03-20 | f | ACCOUNTANT | 2001 | 2021-05-01 |
32000.00 | 3600.00 | 112 | NULL |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+

```

Wqtd details of emp who are working as salesman or manager in delivery dept?

```

Select * from emp
Where job in ('salesman','manager') and dno=(select dno from dept
Where dname='delivery');

```

EID	FNAME	LNAME	DOB	GENDER	JOB	MGR	DOJ	SAL	COMM	DNO	CID
1702	SAMEER	KHAN	1995-04-20	m	MANAGER	2001	2017-07-07	90000.00		NULL	110

Wqtd det of emp who are wonking in accounting or technical dept?????/

Select * from emp

Where dno =(select dno from dept

Where dname in('accounting','technical'));

ERROR 1242 (21000): Subquery returns more than 1 row

SUBQUERY

Wqtd det of emp who are wonking in accounting or technical dept?????/

```
SELECT *
FROM emp
WHERE dno IN (
    SELECT dno
    FROM dept
    WHERE dname IN ('accounting', 'technical')
);
```

EID	FNAME	LNAME	DOB	GENDER	JOB	MGR	DOJ	SAL	COMM	DNO	CID
1901	SHIVANI	RAI	1998-11-07	f	TESTER	2201	2019-12-12	450000.00		NULL	113
2002	DHARANI	PATIL	1998-11-10	f	DEVELOPER	2001	2021-06-20	30000.00	3000.00	113	NULL
2102	FARIYA	TAJ	1999-01-03	f	DEVELOPER	2001	2021-03-01	32000.00	3600.00	113	NULL
2103	PRIYA	SHETTY	1998-03-20	f	ACCOUNTANT	2001	2021-05-01	32000.00	3600.00	112	NULL

WQTD LOCATION of the coustomer salman??????/

Select location FROM LOCATION

WHERE LID IN(SELECT LID FROM CUSTOMER

WHERE FIRST_NAME='SALMAN');

location
ANDHERI

WQTD LOCATION of the EMP SHIVANI??????

SELECT LOCATION FROM LOCATION WHERE LID IN(

SELECT LID FROM DEPT WHERE DNO IN (

SELECT DNO FROM EMP WHERE FNAME='SHIVANI'));

LOCATION

```
+-----+
| ANNA_NAGAR |
+-----+

Wqtd emp fname ,job wheretheir dept locat is located in hebbal?
```

```
Select fname,job
From emp
Where dno in (select dno from dept where lid in(
Select lid from location where location='hebbal'));
```

```
+-----+-----+
| fname | job   |
+-----+-----+
| SAMEER | MANAGER |
| JAHNAVI | DISPATCHER |
| ABHIJIT | DISPATCHER |
| MURALI | DISPATCHER |
+-----+-----+
```

```
Wqtd dname of the emp who are working as salesman but not as female?
Select dname
From dept where dno in ( select dno from emp where job ='salesman' and gender != 'f');
dname |
+-----+
| MARKETING |
+-----+
```

```
Wqtd locaton of the coustomer who are acting as employs for their company?
Select location
From location
Where lid in(select lid from customer where cid in (select cid from emp));
```

```
+-----+
| location |
+-----+
| VIJAYANAGAR |
| SAIDAPET |
| MARINA |
| HEBBAL |
+-----+
```

Wqtd details of customer who have ordered some product?

```
Select * from customer
Where order_id in(select order_id from orders );
or
Select * from customer
Where order_id is not null;
or
Select * from customer
Where product_id is not null;
or
Select * from customer
Where product_id in(select product_id from orders );
```

```
+-----+-----+-----+-----+-----+-----+
```


CID	FIRST_NAME	LAST_NAME	LID	ORDER_ID	PRODUCT_ID
501	SALMAN	KHAN	12	1201	809
505	ABHIJIT	GOWDA	11	1111	801
507	HEMA	SHETTY	3	1127	805
511	SELVA	MANI	12	1773	802

4 rows in set (0.00 sec)

Wqtd details of the emp who are working in vijayanagar?

Select * from emp

Where dno in (select dno from dept where lid in(

Select lid from location where location='vijayanagar'));

EID	FNAME	LNAME	DOB	GENDER	JOB	MGR	DOJ	SAL	COMM	DNO	CID
1701	RAHUL	MUKARJEE	1991-02-19	m	MANAGER	1702	2017-04-17	100000.00	NULL	111	NULL
1903	KARAN	BHAT	1997-12-26	m	SALESMAN	1701	2019-12-26	45000.00	NULL	111	506
2101	RASHMI	GONDA	1995-10-03	f	SALESMAN	1701	2021-01-02	45000.00	3000.00	111	NULL
2104	AMAN	RAI	1998-08-15	m	SALESMAN	1701	2021-12-26	40000.00	NULL	111	NULL

Wqtd details of emp who delivered the product to the customer who bwlogs to mumbai

Select * from emp where eid in

(select eid from orders where order_id in

(select order_id from customer where lid in (

Select lid from location where city='mumbai')));

EID	FNAME	LNAME	DOB	GENDER	JOB	MGR	DOJ	SAL	COMM	DNO	CID
2001	MURALI	KRISHNAN	1998-06-08	m	DISPATCHER	2201	2020-03-15	45000.00	1000.00	110	NULL
2201	KIRAN	RAJ	1999-09-21	m	ACCOUNTANT	NULL	2022-08-28	30000.00	3600.00	115	503

2 rows in set (0.01 sec)

ALL OPERATOR(AND)

Wqtd details of emps who are geeting sal more than all the salesman?

```
SELECT *
FROM emp
WHERE sal > all(
  SELECT sal
  FROM emp
  WHERE job = 'salesman'
);
```

```
+-----+-----+-----+-----+-----+-----+-----+-----+
| EID | FNAME | LNAME | DOB   | GENDER | JOB   | MGR | DOJ   | SAL   |
+-----+-----+-----+-----+-----+-----+-----+-----+
| 1701 | RAHUL  | MUKARJEE | 1991-02-19 | m   | MANAGER | 1702 | 2017-04-17 | 100000.00 | NULL | 111 | NULL |
| 1702 | SAMEER | KHAN    | 1995-04-20 | m   | MANAGER | 2001 | 2017-07-07 | 90000.00 | NULL | 110 | NULL |
| 1801 | JAHNAVI | NAIK    | 1996-04-11 | f   | DISPATCHER | 1702 | 2020-02-15 | 450000.00 | 1000.00 | 110 | NULL |
| 1901 | SHIVANI | RAI     | 1998-11-07 | f   | TESTER  | 2201 | 2019-12-12 | 450000.00 | NULL | 113 | 502 |
| 1902 | ABHIJIT | GOWDA   | 1997-12-25 | m   | DISPATCHER | 1702 | 2019-02-28 | 50000.00 | NULL | 110 | 505 |
+-----+-----+-----+-----+-----+-----+-----+-----+
```

WHITHOUT ALL OPERATOR

```
SELECT *
FROM emp
WHERE sal > (
  SELECT MAX( sal)
  FROM emp
  WHERE job = 'salesman'
);
```

ANY OPERATOR(OR)

WQTD details of the emps who are getting sal more than any one of the salesman??////////

```
Select * from emp
Where sal > any(select sal from emp where job='salesman');
```

```
+-----+-----+-----+-----+-----+-----+-----+-----+
| EID | FNAME | LNAME | DOB   | GENDER | JOB   | MGR | DOJ   | SAL   |
+-----+-----+-----+-----+-----+-----+-----+-----+
```

```

+-----+-----+-----+-----+-----+-----+-----+-----+-----+
----+
| 1701 | RAHUL | MUKARJEE | 1991-02-19 | m | MANAGER | 1702 | 2017-04-17 |
100000.00 | NULL | 111 | NULL |
| 1702 | SAMEER | KHAN | 1995-04-20 | m | MANAGER | 2001 | 2017-07-07 |
90000.00 | NULL | 110 | NULL |
| 1801 | JAHNAVI | NAIK | 1996-04-11 | f | DISPATCHER | 1702 | 2020-02-15 |
450000.00 | 1000.00 | 110 | NULL |
| 1901 | SHIVANI | RAI | 1998-11-07 | f | TESTER | 2201 | 2019-12-12 | 450000.00 |
NULL | 113 | 502 |
| 1902 | ABHIJIT | GOWDA | 1997-12-25 | m | DISPATCHER | 1702 | 2019-02-28 |
50000.00 | NULL | 110 | 505 |
| 1903 | KARAN | BHAT | 1997-12-26 | m | SALESMAN | 1701 | 2019-12-26 |
45000.00 | NULL | 111 | 506 |
| 2001 | MURALI | KRISHNAN | 1998-06-08 | m | DISPATCHER | 2201 | 2020-03-15 |
45000.00 | 1000.00 | 110 | NULL |
| 2101 | RASHMI | GONDA | 1995-10-03 | f | SALESMAN | 1701 | 2021-01-02 |
45000.00 | 3000.00 | 111 | NULL |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+

```

WITHOUT ANY

```

SELECT *
FROM emp
WHERE sal > (
    SELECT MIN( sal)
    FROM emp
    WHERE job = 'salesman'
);

```

WQTD number of emps hired in same month???

```

Select count(*),month(doj)
From emp
Group by month(doj)
Having count(*) >1;

```

```

+-----+-----+
| count(*) | month(doj) |
+-----+-----+
| 2 | 2 |
| 3 | 12 |
| 2 | 3 |
+-----+-----+

```

Wqtd details of the emp who were hierd after 3 year of sameer but before 1 yaer of kieran?

2020+3=2025

2028-1 =2027

```

Select * from emp
Where doj>(select date_add(doj,interval 3 year)
From emp
Where fname ='sameer') and doj<(select date_sub(doj ,interval 1 year)

```

```

From emp
Where fname='kiran');

```

```

+-----+-----+-----+-----+-----+-----+-----+-----+-----+
-+
| EID | FNAME | LNAME | DOB      | GENDER | JOB      | MGR | DOJ      | SAL      |
COMM | DNO | CID |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
-+
| 2002 | DHARANI | PATIL | 1998-11-10 | f      | DEVELOPER | 2001 | 2021-06-20 |
30000.00 | 3000.00 | 113 | NULL |
| 2101 | RASHMI | GONDA | 1995-10-03 | f      | SALESMAN | 1701 | 2021-01-02 |
45000.00 | 3000.00 | 111 | NULL |
| 2102 | FARIYA | TAJ   | 1999-01-03 | f      | DEVELOPER | 2001 | 2021-03-01 | 32000.00 |
3600.00 | 113 | NULL |
| 2103 | PRIYA  | SHETTY | 1998-03-20 | f      | ACCOUNTANT | 2001 | 2021-05-01 |
32000.00 | 3600.00 | 112 | NULL |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
-+

```

ASSIGNMENT QUE

Wqtd details of emp whO has working experinece more than kiran but less than murali?

```

SELECT *
FROM emp
WHERE doj < (SELECT doj FROM emp WHERE fname = 'kiran')
AND doj > (SELECT doj FROM emp WHERE fname = 'murali');

```

```

+-----+-----+-----+-----+-----+-----+-----+-----+-----+
-+
| EID | FNAME | LNAME | DOB      | GENDER | JOB      | MGR | DOJ      | SAL      |
COMM | DNO | CID |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
-+
| 2002 | DHARANI | PATIL | 1998-11-10 | f      | DEVELOPER | 2001 | 2021-06-20 |
30000.00 | 3000.00 | 113 | NULL |
| 2101 | RASHMI | GONDA | 1995-10-03 | f      | SALESMAN | 1701 | 2021-01-02 |
45000.00 | 3000.00 | 111 | NULL |
| 2102 | FARIYA | TAJ   | 1999-01-03 | f      | DEVELOPER | 2001 | 2021-03-01 | 32000.00 |
3600.00 | 113 | NULL |
| 2103 | PRIYA  | SHETTY | 1998-03-20 | f      | ACCOUNTANT | 2001 | 2021-05-01 |
32000.00 | 3600.00 | 112 | NULL |
| 2104 | AMAN   | RAI   | 1998-08-15 | m      | SALESMAN | 1701 | 2021-12-26 | 40000.00 |
| NULL | 111 | NULL |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
-+

```

Wqtd working state of the emp who are getting 2nd max salary?

```

SELECT *
FROM emp
WHERE sal = (
    SELECT MAX(sal)
    FROM emp
    WHERE sal < (
        SELECT MAX(sal) FROM emp
    )
)

```

```
)  
);
```

Wqtd details of dept if more than 3 emps working in each dept?

```
SELECT *  
-> FROM dept  
-> WHERE dno IN (  
->   SELECT dno  
->   FROM emp  
->   GROUP BY dno  
->   HAVING COUNT(*) > 3  
-> );
```

```
+-----+-----+-----+  
| DNO | DNAME   | LID |  
+-----+-----+-----+  
| 110 | DELIVERY | 2   |  
| 111 | MARKETING | 1   |  
+-----+-----+-----+
```

Wqtd details of emp who are working in the dept having highest sal?

Wqtd fname and working experience of the emp who worked longer than average tenure at the company

Avg tenure : avgworking exp of all the emp..

EMP AND MGR RELATIONSHIP

case=1(to find mgr details)

DQTD full name of jahnavi's manager?

```
Select concat(fname," ",lname)from emp where eid in(select mgr  
From emp  
Where fname ='jahnavi');
```

```
+-----+  
| concat(fname," ",lname) |  
+-----+  
| SAMEER KHAN             |  
+-----+
```

DQTD dname of rashmi's manager?

```
Select dname from dept  
Where dno in (Select dno from emp  
Where eid in (select mgr from emp where fname='rashmi'));
```

```
+-----+  
| dname   |  
+-----+  
| MARKETING |  
+-----+
```

Wqtd details of rahuls manager's manager?

```
Select * from emp
```

Where eid in (select mgr from emp where eid in (select mgr from emp where
fname='rahul'));

```

-----+-----+-----+-----+-----+-----+-----+-----+
| EID | FNAME | LNAME | DOB | GENDER | JOB | MGR | DOJ | SAL |
COMM | DNO | CID |
-----+-----+-----+-----+-----+-----+-----+-----+
--+
| 2001 | MURALI | KRISHNAN | 1998-06-08 | m | DISPATCHER | 2201 | 2020-03-15 |
45000.00 | 1000.00 | 110 | NULL |
-----+-----+-----+-----+-----+-----+-----+-----+
--+
1 row in set (0.00 sec)

```

Case=2(to find emp details)

Wqtd details of the emp who are reporting to murali?

```

SELECT * FROM EMP
WHERE MGR IN ( SELECT EID FROM EMP
WHERE FNAME='MURALI');

```

```

-----+-----+-----+-----+-----+-----+-----+-----+
| EID | FNAME | LNAME | DOB | GENDER | JOB | MGR | DOJ | SAL |
COMM | DNO | CID |
-----+-----+-----+-----+-----+-----+-----+-----+
--+
| 1702 | SAMEER | KHAN | 1995-04-20 | m | MANAGER | 2001 | 2017-07-07 |
90000.00 | NULL | 110 | NULL |
| 2002 | DHARANI | PATIL | 1998-11-10 | f | DEVELOPER | 2001 | 2021-06-20 |
30000.00 | 3000.00 | 113 | NULL |
| 2102 | FARIYA | TAJ | 1999-01-03 | f | DEVELOPER | 2001 | 2021-03-01 | 32000.00 |
3600.00 | 113 | NULL |
| 2103 | PRIYA | SHETTY | 1998-03-20 | f | ACCOUNTANT | 2001 | 2021-05-01 |
32000.00 | 3600.00 | 112 | NULL |
-----+-----+-----+-----+-----+-----+-----+-----+
--+
4 rows in set (0.01 sec)

```

Bot case 1 & 2

Wqtd details of the emps who are reporting to muralis manager?

```

Select *
from emp
Where mgr in (select eid
from emp
Where eid in (select mgr
from emp
Where fname='murali'));

```

Wqtd dname of the emp who are reporting to janavi manager?

```

Select dname
From dept
Where dno in (Select dno
from emp
Where mgr in (select eid
from emp
Where eid in (select mgr
from emp
Where fname='jahnavi')));

```

```

+-----+
| dname  |
+-----+
| MARKETING |
| DELIVERY |
+-----+

```

Wqtd working location of the emp who are reporting to abhijit's manager manager ?

```

Select location
from location
where lid in (Select lid
from dept
where dno in ( Select dno
from emp
where mgr in (Select eid
from emp
where eid in (select mgr
from emp
Where eid in (Select mgr
from emp
Where fname = 'abhijit'))));

```

```

+-----+
| location |
+-----+
| HEBBAL   |
| ANNA_NAGAR |
| KORMANGALA |
+-----+

```

CROSS JOIN

wqtd cartision product from emp and dept tablr?
 Select * from emp e cross join dept d;

13*5=65 row
 13 +5=18 col

Select e.dno ,d.dno from emp e cross join dept d;

INNER JOIN

|wqtd details from emp and dept table?

Select * from emp e inner join dept d

-> on e.dno=d.dno;

```
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| EID | FNAME | LNAME | DOB | GENDER | JOB | MGR | DOJ | SAL |
| COMM | DNO | CID | DNO | DNAME | LID |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| 1701 | RAHUL | MUKARJEE | 1991-02-19 | m | MANAGER | 1702 | 2017-04-17 |
100000.00 | NULL | 111 | NULL | 111 | MARKETING | 1 |
| 1702 | SAMEER | KHAN | 1995-04-20 | m | MANAGER | 2001 | 2017-07-07 |
90000.00 | NULL | 110 | NULL | 110 | DELIVERY | 2 |
| 1801 | JAHNAVI | NAIK | 1996-04-11 | f | DISPATCHER | 1702 | 2020-02-15 |
450000.00 | 1000.00 | 110 | NULL | 110 | DELIVERY | 2 |
| 1901 | SHIVANI | RAI | 1998-11-07 | f | TESTER | 2201 | 2019-12-12 | 450000.00 |
NULL | 113 | 502 | 113 | TECHNICAL | 10 |
| 1902 | ABHIJIT | GOWDA | 1997-12-25 | m | DISPATCHER | 1702 | 2019-02-28 |
50000.00 | NULL | 110 | 505 | 110 | DELIVERY | 2 |
| 1903 | KARAN | BHAT | 1997-12-26 | m | SALESMAN | 1701 | 2019-12-26 |
45000.00 | NULL | 111 | 506 | 111 | MARKETING | 1 |
| 2001 | MURALI | KRISHNAN | 1998-06-08 | m | DISPATCHER | 2201 | 2020-03-15 |
45000.00 | 1000.00 | 110 | NULL | 110 | DELIVERY | 2 |
| 2002 | DHARANI | PATIL | 1998-11-10 | f | DEVELOPER | 2001 | 2021-06-20 |
30000.00 | 3000.00 | 113 | NULL | 113 | TECHNICAL | 10 |
| 2101 | RASHMI | GONDA | 1995-10-03 | f | SALESMAN | 1701 | 2021-01-02 |
45000.00 | 3000.00 | 111 | NULL | 111 | MARKETING | 1 |
| 2102 | FARIYA | TAJ | 1999-01-03 | f | DEVELOPER | 2001 | 2021-03-01 | 32000.00
| 3600.00 | 113 | NULL | 113 | TECHNICAL | 10 |
| 2103 | PRIYA | SHETTY | 1998-03-20 | f | ACCOUNTANT | 2001 | 2021-05-01 |
32000.00 | 3600.00 | 112 | NULL | 112 | ACCOUNTING | 4 |
| 2104 | AMAN | RAI | 1998-08-15 | m | SALESMAN | 1701 | 2021-12-26 |
40000.00 | NULL | 111 | NULL | 111 | MARKETING | 1 |
```

12 rows in set (0.00 sec)

Wqtd customer first_name and his location?

Select c.first_name ,l.location

From customer c inner join location l

On c.lid=l.lid;

```
+-----+-----+
| first_name | location |
+-----+-----+
| SALMAN | ANDHERI |
| SHIVANI | VIJAYANAGAR |
| KIRAN | HEBBAL |
| VIHAN | RAIDURG |
| ABHIJIT | SAIDAPET |
| KARAN | MARINA |
```


HEMA	RAJAJINAGAR
PUNITH	KORMANGALA
PATRICK	JUHU
JEEVAN	ANNA_NAGAR
SELVA	ANDHERI
IRFAN	KUVEMPUNAGAR

Wqtd emp fname ,lname,job & his dname if the emp are working as salesamn or manager?

Select e.fname,e.lname,e.job,d.dname

From emp e inner join dept d

On e.dno =d.dno

Where e.job in ('salesman','manager');

fname	lname	job	dname
RAHUL	MUKARJEE	MANAGER	MARKETING
SAMEER	KHAN	MANAGER	DELIVERY
KARAN	BHAT	SALESMAN	MARKETING
RASHMI	GONDA	SALESMAN	MARKETING
AMAN	RAI	SALESMAN	MARKETING

Wqtd emp fname,lname,dname if the is working in hr dept?

Select e.fname,e.lname,d.dname

From emp e inner join dept d

On e.dno =d.dno

Where d.dname='hr';

Empty set (0.00 sec)

Wqtd coustomer first_name ,last_name, and emp fname if the customer is actind as emp for the company?

Select c.first_name ,c.last_name,e.fname

From customer c inner join emp e

On c.cid=e.cid;

first_name	last_name	fname
SHIVANI	RAI	SHIVANI
ABHIJIT	GOWDA	ABHIJIT
KARAN	BHAT	KARAN
KIRAN	RAJ	KIRAN

Wqtd emp fname ,lname,job and dno along with their dname if the emp is working as salesman ,manager or developer in dno 110,111 or 112 and his fname 3 rd char is H?

SELECT E.fname ,E.lname,D.DNO,D.DNAME,e.job

FROM EMP E INNER JOIN DEPT D

ON E.DNO=D.DNO

WHERE E.JOB IN ('SALESMAN','MANAGER','DEVELOPER') AND D.DNO IN (110,111,112) AND substring(e.fname,3,1)='h';

--	--	--	--

fname	lname	DNO	DNAME	job
RAHUL	MUKARJEE	111	MARKETING	MANAGER

If we use like

`e.fname like '___h%';`

+wqtd details of emp along with their dname if the emp born after the year 1995?

Select e.*,d.dname

From emp e inner join dept d

On e.dno=d.dno

Where year(e.dob)>1995;

EID	FNAME	LNAME	DOB	GENDER	JOB	MGR	DOJ	SAL	COMM	DNO	CID	dname
1801	JAHNAVI	NAIK	1996-04-11	f	DISPATCHER	1702	2020-02-15	450000.00	1000.00	110	NULL	DELIVERY
1901	SHIVANI	RAI	1998-11-07	f	TESTER	2201	2019-12-12	450000.00	NULL	113	502	TECHNICAL
1902	ABHIJIT	GOWDA	1997-12-25	m	DISPATCHER	1702	2019-02-28	50000.00	NULL	110	505	DELIVERY
1903	KARAN	BHAT	1997-12-26	m	SALESMAN	1701	2019-12-26	45000.00	NULL	111	506	MARKETING
2001	MURALI	KRISHNAN	1998-06-08	m	DISPATCHER	2201	2020-03-15	45000.00	1000.00	110	NULL	DELIVERY
2002	DHARANI	PATIL	1998-11-10	f	DEVELOPER	2001	2021-06-20	30000.00	3000.00	113	NULL	TECHNICAL
2102	FARIYA	TAJ	1999-01-03	f	DEVELOPER	2001	2021-03-01	32000.00	3600.00	113	NULL	TECHNICAL
2103	PRIYA	SHETTY	1998-03-20	f	ACCOUNTANT	2001	2021-05-01	32000.00	3600.00	112	NULL	ACCOUNTING
2104	AMAN	RAI	1998-08-15	m	SALESMAN	1701	2021-12-26	40000.00	NULL	111	NULL	MARKETING

WQTD EMP fname & password ,the password must contain below cod

1)first 3 char of fname

2. Emp dept lid

3. Emp year of birth

Select e.fname ,concat(substr(e.fname,1,3),d.lid,year(e.dob)) as password

From emp e inner join dept d

On e.dno=d.dno;

fname	password
RAHUL	RAH11991
SAMEER	SAM21995

	JAHNAVI		JAH21996	
	SHIVANI		SHI101998	
	ABHIJIT		ABH21997	
	KARAN		KAR11997	
	MURALI		MUR21998	
	DHARANI		DHA101998	
	RASHMI		RAS11995	
	FARIYA		FAR101999	
	PRIYA		PRI41998	
	AMAN		AMA11998	

+-----+-----+

Wqtd emp fname ,dame and his dept location

```

Select e.fname,d.dname,l.location
From emp e inner join dept d
On e.dno =d.dno inner join location l
On d.lid=l.lid;

```

+-----+-----+-----+
fname dname location
+-----+-----+-----+
RAHUL MARKETING VIJAYANAGAR
SAMEER DELIVERY HEBBAL
JAHNAVI DELIVERY HEBBAL
SHIVANI TECHNICAL ANNA_NAGAR
ABHIJIT DELIVERY HEBBAL
KARAN MARKETING VIJAYANAGAR
MURALI DELIVERY HEBBAL
DHARANI TECHNICAL ANNA_NAGAR
RASHMI MARKETING VIJAYANAGAR
FARIYA TECHNICAL ANNA_NAGAR
PRIYA ACCOUNTING KORMANGALA
AMAN MARKETING VIJAYANAGAR
+-----+-----+-----+

Or

```

Select e.fname,d.dname,l.location
From emp e inner join dept d inner join location l
On e.dno =d.dno and d.lid=l.lid;

```

--wqtd details of emp along with dname ,location and city if the emp fname contains exactly 1 A?

```

Select e.*,d.dname,l.location,l.city
from emp e inner join dept d inner join location l
On e.dno=d.dno and d.lid=l.lid
Where length(e.fname)-length(replace(e.fname,'a',' '))=1 ;

```

Empty set (0.00 sec)

Wqtd customer first_name ,order_id,delivery_date ,price as total_bill ,location ,city ,state if the customer orderd some product?

```
Select c.first_name,c.order_id,o.delivery_date,p.price as "total_bill",l.location ,l.city,l.state
From customer c inner join orders o inner join product p inner join location l
On c.order_id=o.order_id and o.product_id=p.product_id and c.lid=l.lid;
```

```
+-----+-----+-----+-----+-----+-----+
| first_name | order_id | delivery_date | total_bill | location | city | state |
+-----+-----+-----+-----+-----+-----+
| SALMAN | 1201 | 2022-12-08 | 1750.00 | ANDHERI | MUMBAI |
MAHARASHTRA |
| ABHIJIT | 1111 | 2022-11-12 | 2000.00 | SAIDAPET | CHENNAI | TAMIL_NADU |
| HEMA | 1127 | 2022-12-01 | 1000.00 | RAJAJINAGAR | BANGALORE |
KARNATAKA |
| SELVA | 1773 | 2022-12-22 | 20000.00 | ANDHERI | MUMBAI |
MAHARASHTRA |
+-----+-----+-----+-----+-----+-----+
```

WQTD TOTAL REVENUE GENERATED BY EACH STATE???????

```
Select sum(p.price),l.state
From customer c inner join product p inner join location l
On c.product_id =p.product_id and c.lid=l.lid
Group by l.state ;
```

```
+-----+-----+
| sum(p.price) | state |
+-----+-----+
| 21750.00 | MAHARASHTRA |
| 2000.00 | TAMIL_NADU |
| 1000.00 | KARNATAKA |
```

Wqtd top 2 customer first_name with spent money?

```
Select c.first_name,sum(p.price) as spent_money
From customer c inner join product p
On c.product_id=p.product_id
Group by c.first_name
Order by spent_money desc
Limit 2;
```

```
+-----+-----+
| first_name | spent_money |
+-----+-----+
| SELVA | 20000.00 |
| ABHIJIT | 2000.00 |
```

Outer join

Left outer join

Emp-left
Dept-right

```

Select *
From emp e left outer join dept d
On e.dno=d.dno;

```

EID	FNAME	LNAME	DOB	GENDER	JOB	MGR	DOJ	SAL	COMM	DNO	CID	DNO	DNAME	LID
1701	RAHUL	MUKARJEE	1991-02-19	m	MANAGER	1702	2017-04-17	100000.00	NULL	111	NULL	111	MARKETING	1
1702	SAMEER	KHAN	1995-04-20	m	MANAGER	2001	2017-07-07	90000.00	NULL	110	NULL	110	DELIVERY	2
1801	JAHNAVI	NAIK	1996-04-11	f	DISPATCHER	1702	2020-02-15	450000.00	1000.00	110	NULL	110	DELIVERY	2
1901	SHIVANI	RAI	1998-11-07	f	TESTER	2201	2019-12-12	450000.00	NULL	113	502	113	TECHNICAL	10
1902	ABHIJIT	GOWDA	1997-12-25	m	DISPATCHER	1702	2019-02-28	50000.00	NULL	110	505	110	DELIVERY	2
1903	KARAN	BHAT	1997-12-26	m	SALESMAN	1701	2019-12-26	45000.00	NULL	111	506	111	MARKETING	1
2001	MURALI	KRISHNAN	1998-06-08	m	DISPATCHER	2201	2020-03-15	45000.00	1000.00	110	NULL	110	DELIVERY	2
2002	DHARANI	PATIL	1998-11-10	f	DEVELOPER	2001	2021-06-20	30000.00	3000.00	113	NULL	113	TECHNICAL	10
2101	RASHMI	GONDA	1995-10-03	f	SALESMAN	1701	2021-01-02	45000.00	3000.00	111	NULL	111	MARKETING	1
2102	FARIYA	TAJ	1999-01-03	f	DEVELOPER	2001	2021-03-01	32000.00	3600.00	113	NULL	113	TECHNICAL	10
2103	PRIYA	SHETTY	1998-03-20	f	ACCOUNTANT	2001	2021-05-01	32000.00	3600.00	112	NULL	112	ACCOUNTING	4
2104	AMAN	RAI	1998-08-15	m	SALESMAN	1701	2021-12-26	40000.00	NULL	111	NULL	111	MARKETING	1
2201	KIRAN	RAJ	1999-09-21	m	ACCOUNTANT	NULL	2022-08-28	30000.00	3600.00	115	503	NULL	NULL	un matched

RIGHT OUTER JOIN

Emp-RIGHT
Dept-LEFT

```

Select *
From emp e RIGHT outer join dept d
On e.dno=d.dno;

```

EID	FNAME	LNAME	DOB	GENDER	JOB	MGR	DOJ	SAL	COMM	DNO	CID	DNO	DNAME	LID
-----	-------	-------	-----	--------	-----	-----	-----	-----	------	-----	-----	-----	-------	-----

```

+-----+-----+-----+-----+-----+-----+-----+-----+-----+
+-----+-----+
| 2001 | MURALI | KRISHNAN | 1998-06-08 | m | DISPATCHER | 2201 | 2020-03-15 |
45000.00 | 1000.00 | 110 | NULL | 110 | DELIVERY | 2 |
| 1902 | ABHIJIT | GOWDA | 1997-12-25 | m | DISPATCHER | 1702 | 2019-02-28 |
50000.00 | NULL | 110 | 505 | 110 | DELIVERY | 2 |
| 1801 | JAHNAVI | NAIK | 1996-04-11 | f | DISPATCHER | 1702 | 2020-02-15 |
450000.00 | 1000.00 | 110 | NULL | 110 | DELIVERY | 2 |
| 1702 | SAMEER | KHAN | 1995-04-20 | m | MANAGER | 2001 | 2017-07-07 |
90000.00 | NULL | 110 | NULL | 110 | DELIVERY | 2 |
| 2104 | AMAN | RAI | 1998-08-15 | m | SALESMAN | 1701 | 2021-12-26 |
40000.00 | NULL | 111 | NULL | 111 | MARKETING | 1 |
| 2101 | RASHMI | GONDA | 1995-10-03 | f | SALESMAN | 1701 | 2021-01-02 |
45000.00 | 3000.00 | 111 | NULL | 111 | MARKETING | 1 |
| 1903 | KARAN | BHAT | 1997-12-26 | m | SALESMAN | 1701 | 2019-12-26 |
45000.00 | NULL | 111 | 506 | 111 | MARKETING | 1 |
| 1701 | RAHUL | MUKARJEE | 1991-02-19 | m | MANAGER | 1702 | 2017-04-17 |
100000.00 | NULL | 111 | NULL | 111 | MARKETING | 1 |
| 2103 | PRIYA | SHETTY | 1998-03-20 | f | ACCOUNTANT | 2001 | 2021-05-01 |
32000.00 | 3600.00 | 112 | NULL | 112 | ACCOUNTING | 4 |
| 2102 | FARIYA | TAJ | 1999-01-03 | f | DEVELOPER | 2001 | 2021-03-01 | 32000.00
| 3600.00 | 113 | NULL | 113 | TECHNICAL | 10 |
| 2002 | DHARANI | PATIL | 1998-11-10 | f | DEVELOPER | 2001 | 2021-06-20 |
30000.00 | 3000.00 | 113 | NULL | 113 | TECHNICAL | 10 |
| 1901 | SHIVANI | RAI | 1998-11-07 | f | TESTER | 2201 | 2019-12-12 | 450000.00 |
NULL | 113 | 502 | 113 | TECHNICAL | 10 |
| NULL | NULL | NULL | NULL | NULL | NULL | NULL | NULL | NULL |
NULL | NULL | NULL | 114 | HR | 12 |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
+-----+-----+

```

13 rows in set (0.01 sec)

WQTD LOCATION WHERE NO CUSTOMER LIVES OVER THERE?

```

SELECT *
FROM LOCATION L LEFT OUTER JOIN CUSTOMER C
ON L.LID=C.LID
WHERE C.LID IS NULL;

```

```

+-----+-----+-----+-----+-----+-----+-----+-----+-----+
+-----+-----+
| LID | LOCATION | CITY | STATE | CID | FIRST_NAME | LAST_NAME | LID |
ORDER_ID | PRODUCT_ID |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| 6 | AMEERPET | HYDERABAD | TELANGANA | NULL | NULL | NULL | NULL |
NULL | NULL |
| 8 | DILSUKHNAGAR | HYDERABAD | TELANGANA | NULL | NULL | NULL | NULL |
NULL | NULL |
| 14 | GOREGAON | MUMBAI | MAHARASHTRA | NULL | NULL | NULL | NULL |
NULL | NULL |
| 15 | BORIVALI | MUMBAI | MAHARASHTRA | NULL | NULL | NULL | NULL |
NULL | NULL |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+

```

WQTD PRODUCT DETAILS IF THE CUSTOMER HAS NOT ORDERED THE PRODUCT?

```
SELECT P.*  
FROM CUSTOMER C RIGHT OUTER JOIN PRODUCT P  
ON C.PRODUCT_ID=P.PRODUCT_ID  
WHERE C.PRODUCT_ID IS NULL;
```

PRODUCT_ID	PNAME	PRICE
803	WATCH	15000.00
804	EAR PODS	1500.00
806	IPHONE	1300.00
807	WALLET	2500.00
808	PTron	800.00

WQTD LOCATION WHERE NO DEPT AREV LOCATED IN THAT AREA?????

```
SELECT L.LOCATION  
FROM LOCATION L LEFT OUTER JOIN DEPT D  
ON L.LID=D.LID  
WHERE D.LID IS NULL;
```

LOCATION
RAJAJINAGAR
KUVEMPUNAGAR
AMEERPET
RAIDURG
DILSUKHNAGAR
MARINA
SAIDAPET
JUHU
GOREGAON
BORIVALI

SELF JOIN

WQTD EMP FNAME ,JOB, AND HIS MANAGER FNAME ,JOB FROM EMP TABLE?

```
SELECT E1.FNAME,E1.JOB,E2.FNAME,E2.JOB ,E1.mgr,E2.EID  
FROM EMP E1 JOIN EMP E2  
ON E1.MGR =E2.EID;
```

FNAME	JOB	FNAME	JOB	mgr	EID
RAHUL	MANAGER	SAMEER	MANAGER	1702	1702
SAMEER	MANAGER	MURALI	DISPATCHER	2001	2001
JAHNAVI	DISPATCHER	SAMEER	MANAGER	1702	1702
SHIVANI	TESTER	KIRAN	ACCOUNTANT	2201	2201
ABHIJIT	DISPATCHER	SAMEER	MANAGER	1702	1702
KARAN	SALESMAN	RAHUL	MANAGER	1701	1701
MURALI	DISPATCHER	KIRAN	ACCOUNTANT	2201	2201
DHARANI	DEVELOPER	MURALI	DISPATCHER	2001	2001

RASHMI	SALESMAN	RAHUL	MANAGER	1701	1701
FARIYA	DEVELOPER	MURALI	DISPATCHER	2001	2001
PRIYA	ACCOUNTANT	MURALI	DISPATCHER	2001	2001
AMAN	SALESMAN	RAHUL	MANAGER	1701	1701

Wqtd emp fname,sal, along with manager fname ,sal if the emp is getting salary more tha 35000 and manager is getting sal less than 500000?

```

Select e1.fname,e1.sal,e2.fname,e2.sal
From emp e1 join emp e2
On e1.mgr=e2.eid
Where e1.sal>35000 and e2.sal< 5000000;

```

fname	sal	fname	sal
RAHUL	100000.00	SAMEER	90000.00
SAMEER	90000.00	MURALI	45000.00
JAHNAVI	450000.00	SAMEER	90000.00
SHIVANI	450000.00	KIRAN	30000.00
ABHIJIT	50000.00	SAMEER	90000.00
KARAN	45000.00	RAHUL	100000.00
MURALI	45000.00	KIRAN	30000.00
RASHMI	45000.00	RAHUL	100000.00
AMAN	40000.00	RAHUL	100000.00

181)wqtd emp fname,dob along manager fname,dob if the emp is elder than manager?/

```

Select e1.fname,e1.dob,e2.fname,e2.dob
From emp e1 join emp e2
on e1.mgr=e2.eid
Where e1.dob <e2.dob;

```

fname	dob	fname	dob
RAHUL	1991-02-19	SAMEER	1995-04-20
SAMEER	1995-04-20	MURALI	1998-06-08
SHIVANI	1998-11-07	KIRAN	1999-09-21
MURALI	1998-06-08	KIRAN	1999-09-21
PRIYA	1998-03-20	MURALI	1998-06-08

Wqtd emp fname,manager ,fname along with emp dname?????????

```

Select e1.fname,e2.fname,d1.dname
From emp e1 join emp e2 inner join dept d1
On e1.mgr=e2.eid and e1.dno=d1.dno;

```

fname	fname	dname
RAHUL	SAMEER	MARKETING
SAMEER	MURALI	DELIVERY
JAHNAVI	SAMEER	DELIVERY
SHIVANI	KIRAN	TECHNICAL
ABHIJIT	SAMEER	DELIVERY

KARAN	RAHUL	MARKETING
MURALI	KIRAN	DELIVERY
DHARANI	MURALI	TECHNICAL
RASHMI	RAHUL	MARKETING
FARIYA	MURALI	TECHNICAL
PRIYA	MURALI	ACCOUNTING
AMAN	RAHUL	MARKETING

+-----+-----+-----+

Wqtd emp fname ,job ,emp dname and manager fname ,job ,manager dname if the emp working as manager or salesman and emp dname is either marketing or delivery and manager is working as manager?

```
Select e1.fname,e1.job,d1.dname,e2.fname,e2.job ,d2.dname
From emp e1 join emp e2 inner join dept d1 inner join dept d2
On e1.mgr=e2.eid and e1.dno=d1.dno and e2.dno=d2.dno
Where e1.job in('manager','salesman') and d1. dname in ('marketing','delivery') and
e2.job='manager';
```

+-----+-----+-----+-----+-----+-----+

fname	job	dname	fname	job	dname
-------	-----	-------	-------	-----	-------

+-----+-----+-----+-----+-----+-----+

RAHUL	MANAGER	MARKETING	SAMEER	MANAGER	DELIVERY
KARAN	SALESMAN	MARKETING	RAHUL	MANAGER	MARKETING
RASHMI	SALESMAN	MARKETING	RAHUL	MANAGER	MARKETING
AMAN	SALESMAN	MARKETING	RAHUL	MANAGER	MARKETING

Wqtd emp fname ,dname,dept location along with manager fname ,dname,dept ,dept location?

```
Select e1.fname,d1.dname,l1.location, e2.fname,d2.dname,l2.location
From emp e1 join emp e2 inner join dept d1 inner join dept d2 inner join location l1 inner
join location l2
On e1.mgr=e2.eid and e1.dno=d1.dno and d1.lid=l1.lid and d2.lid=l2.lid and e2.dno=d2.dno;
```

-----+-----+-----+-----+-----+

fname	dname	location	fname	dname	location
-------	-------	----------	-------	-------	----------

+-----+-----+-----+-----+-----+

RAHUL	MARKETING	VIJAYANAGAR	SAMEER	DELIVERY	HEBBAL
SAMEER	DELIVERY	HEBBAL	MURALI	DELIVERY	HEBBAL
JAHNAVI	DELIVERY	HEBBAL	SAMEER	DELIVERY	HEBBAL
ABHIJIT	DELIVERY	HEBBAL	SAMEER	DELIVERY	HEBBAL
KARAN	MARKETING	VIJAYANAGAR	RAHUL	MARKETING	VIJAYANAGAR
DHARANI	TECHNICAL	ANNA_NAGAR	MURALI	DELIVERY	HEBBAL
RASHMI	MARKETING	VIJAYANAGAR	RAHUL	MARKETING	VIJAYANAGAR
FARIYA	TECHNICAL	ANNA_NAGAR	MURALI	DELIVERY	HEBBAL
PRIYA	ACCOUNTING	KORMANGALA	MURALI	DELIVERY	HEBBAL
AMAN	MARKETING	VIJAYANAGAR	RAHUL	MARKETING	VIJAYANAGAR

+-----+-----+-----+-----+-----+

Wqtd working location of aman's manager?

```
Select l2.location
From emp e1 join emp e2 inner join dept d2 inner join location l2
On e1.mgr=e2.eid and e2.dno=d2.dno and d2.lid=l2.lid
```

```

+-----+
| location |
+-----+
| VIJAYANAGAR |
+-----+

```

```
Select e3.fname
From emp e1 join emp e2 join emp e3
On e1.mgr=e2.eid and e2.mgr =e3.eid
Where e1.fname='aman';
```

```

+-----+
| fname |
+-----+
| SAMEER |
+-----+

```

```
Select e1.*
From emp e1 join emp e2
On e1.sal > e2.sal
Where e2.fname='kiran';
```

```

+-----+-----+-----+-----+-----+-----+-----+-----+-----+
--+
| EID | FNAME | LNAME | DOB | GENDER | JOB | MGR | DOJ | SAL |
COMM | DNO | CID |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
----+
| 1701 | RAHUL | MUKARJEE | 1991-02-19 | m | MANAGER | 1702 | 2017-04-17 |
100000.00 | NULL | 111 | NULL |
| 1702 | SAMEER | KHAN | 1995-04-20 | m | MANAGER | 2001 | 2017-07-07 |
90000.00 | NULL | 110 | NULL |
| 1801 | JAHNAVI | NAIK | 1996-04-11 | f | DISPATCHER | 1702 | 2020-02-15 |
450000.00 | 1000.00 | 110 | NULL |
| 1901 | SHIVANI | RAI | 1998-11-07 | f | TESTER | 2201 | 2019-12-12 | 450000.00 |
NULL | 113 | 502 |
| 1902 | ABHIJIT | GOWDA | 1997-12-25 | m | DISPATCHER | 1702 | 2019-02-28 |
50000.00 | NULL | 110 | 505 |
| 1903 | KARAN | BHAT | 1997-12-26 | m | SALESMAN | 1701 | 2019-12-26 |
45000.00 | NULL | 111 | 506 |
| 2001 | MURALI | KRISHNAN | 1998-06-08 | m | DISPATCHER | 2201 | 2020-03-15 |
45000.00 | 1000.00 | 110 | NULL |
| 2101 | RASHMI | GONDA | 1995-10-03 | f | SALESMAN | 1701 | 2021-01-02 |
45000.00 | 3000.00 | 111 | NULL |
| 2102 | FARIYA | TAJ | 1999-01-03 | f | DEVELOPER | 2001 | 2021-03-01 | 32000.00
| 3600.00 | 113 | NULL |
| 2103 | PRIYA | SHETTY | 1998-03-20 | f | ACCOUNTANT | 2001 | 2021-05-01 |
32000.00 | 3600.00 | 112 | NULL |
| 2104 | AMAN | RAI | 1998-08-15 | m | SALESMAN | 1701 | 2021-12-26 |
40000.00 | NULL | 111 | NULL |

```

Natural join

```
Select * from emp e natural join dept d;
```

DNO	EID	FNAME	LNAME	DOB	GENDER	JOB	MGR	DOJ	SAL	COMM	CID	DNAME	LID
111	1701	RAHUL	MUKARJEE	1991-02-19	m	MANAGER	1702	2017-04-17	100000.00	NULL	NULL	MARKETING	1
110	1702	SAMEER	KHAN	1995-04-20	m	MANAGER	2001	2017-07-07	90000.00	NULL	NULL	DELIVERY	2
110	1801	JAHNAVI	NAIK	1996-04-11	f	DISPATCHER	1702	2020-02-15	450000.00	1000.00	NULL	DELIVERY	2
113	1901	SHIVANI	RAI	1998-11-07	f	TESTER	2201	2019-12-12	450000.00	NULL	502	TECHNICAL	10
110	1902	ABHIJIT	GOWDA	1997-12-25	m	DISPATCHER	1702	2019-02-28	50000.00	NULL	505	DELIVERY	2
111	1903	KARAN	BHAT	1997-12-26	m	SALESMAN	1701	2019-12-26	45000.00	NULL	506	MARKETING	1
110	2001	MURALI	KRISHNAN	1998-06-08	m	DISPATCHER	2201	2020-03-15	45000.00	1000.00	NULL	DELIVERY	2
113	2002	DHARANI	PATIL	1998-11-10	f	DEVELOPER	2001	2021-06-20	30000.00	3000.00	NULL	TECHNICAL	10
111	2101	RASHMI	GONDA	1995-10-03	f	SALESMAN	1701	2021-01-02	45000.00	3000.00	NULL	MARKETING	1
113	2102	FARIYA	TAJ	1999-01-03	f	DEVELOPER	2001	2021-03-01	32000.00	3600.00	NULL	TECHNICAL	10
112	2103	PRIYA	SHETTY	1998-03-20	f	ACCOUNTANT	2001	2021-05-01	32000.00	3600.00	NULL	ACCOUNTING	4
111	2104	AMAN	RAI	1998-08-15	m	SALESMAN	1701	2021-12-26	40000.00	NULL	NULL	MARKETING	1

```
Select * from emp e natural join location l;
```

Merded record

```
mysql> Select * from emp e natural join emp f;
```

Empty set (0.00 sec)

set operation

```
(select fname  
From emp)  
Union (select fname  
From emp);
```

fname

RAHUL
SAMEER
JAHNAVI
SHIVANI
ABHIJIT
KARAN
MURALI
DHARANI
RASHMI
FARIYA
PRIYA
AMAN
KIRAN

+-----+

```
(select fname
From emp)
Union all(select fname
From emp);
```

+-----+

fname

+-----+

RAHUL
SAMEER
JAHNAVI
SHIVANI
ABHIJIT
KARAN
MURALI
DHARANI
RASHMI
FARIYA
PRIYA
AMAN
KIRAN
RAHUL
SAMEER
JAHNAVI
SHIVANI
ABHIJIT
KARAN
MURALI
DHARANI
RASHMI
FARIYA
PRIYA
AMAN
KIRAN

+-----+

26 rows in set (0.00 sec)

```
(select fname,job
From emp)
```

```
Union all(select fname
From emp);
```

ERROR 1222 (21000): The used SELECT statements have a different number of columns

```
(select job
From emp)
Union all(select fname
From emp);
```

```
+-----+
| job   |
+-----+
| MANAGER |
| MANAGER |
| DISPATCHER |
| TESTER |
| DISPATCHER |
| SALESMAN |
| DISPATCHER |
| DEVELOPER |
| SALESMAN |
| DEVELOPER |
| ACCOUNTANT |
| SALESMAN |
| ACCOUNTANT |
| RAHUL |
| SAMEER |
| JAHNAVI |
| SHIVANI |
| ABHIJIT |
| KARAN |
| MURALI |
| DHARANI |
| RASHMI |
| FARIYA |
| PRIYA |
| AMAN |
| KIRAN |
+-----+
```

26 rows in set (0.00 sec)

To overcome this pass aliase name

```
(select job as job_fname
From emp)
Union all(select fname
From emp);
```

E

Wqtd job ,fname,in lower case if the emps are working as salesman else print job ,fname in reverse format?

```
(Select job ,lower(fname) as fname
From emp
Where job='salesman')
```

```
Union (select job,reverse(fname)
From emp
Where job!= 'salesman');
```

```
+-----+-----+
| job    | fname  |
+-----+-----+
| SALESMAN | karan  |
| SALESMAN | rashmi |
| SALESMAN | aman   |
| MANAGER  | LUHAR  |
| MANAGER  | REEMAS |
| DISPATCHER | IVANHAJ |
| TESTER   | INAVIHS |
| DISPATCHER | TIJIHBA |
| DISPATCHER | ILARUM  |
| DEVELOPER | INARAHD |
| DEVELOPER | AYIRAF  |
| ACCOUNTANT | AYIRP   |
| ACCOUNTANT | NARIK   |
+-----+-----+
```

Wqtd matched and unmatched records from emp and dept table?

Emp:left
Dept:Right

```
(select * from emp e left outer join dept d
On e.dno=d.dno)
Union (
select * from emp e right outer join dept d
On e.dno=d.dno);
```

```
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
---+-----+-----+-----+
| EID | FNAME | LNAME | DOB    | GENDER | JOB    | MGR | DOJ    | SAL    |
COMM | DNO | CID | DNO | DNAME    | LID |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
---+-----+-----+-----+
| 1701 | RAHUL | MUKARJEE | 1991-02-19 | m | MANAGER | 1702 | 2017-04-17 |
100000.00 | NULL | 111 | NULL | 111 | MARKETING | 1 |
| 1702 | SAMEER | KHAN | 1995-04-20 | m | MANAGER | 2001 | 2017-07-07 |
90000.00 | NULL | 110 | NULL | 110 | DELIVERY | 2 |
| 1801 | JAHNAVI | NAIK | 1996-04-11 | f | DISPATCHER | 1702 | 2020-02-15 |
450000.00 | 1000.00 | 110 | NULL | 110 | DELIVERY | 2 |
| 1901 | SHIVANI | RAI | 1998-11-07 | f | TESTER | 2201 | 2019-12-12 | 450000.00 |
NULL | 113 | 502 | 113 | TECHNICAL | 10 |
| 1902 | ABHIJIT | GOWDA | 1997-12-25 | m | DISPATCHER | 1702 | 2019-02-28 |
50000.00 | NULL | 110 | 505 | 110 | DELIVERY | 2 |
| 1903 | KARAN | BHAT | 1997-12-26 | m | SALESMAN | 1701 | 2019-12-26 |
45000.00 | NULL | 111 | 506 | 111 | MARKETING | 1 |
| 2001 | MURALI | KRISHNAN | 1998-06-08 | m | DISPATCHER | 2201 | 2020-03-15 |
45000.00 | 1000.00 | 110 | NULL | 110 | DELIVERY | 2 |
```

```
| 2002 | DHARANI | PATIL | 1998-11-10 | f | DEVELOPER | 2001 | 2021-06-20 |
30000.00 | 3000.00 | 113 | NULL | 113 | TECHNICAL | 10 |
| 2101 | RASHMI | GONDA | 1995-10-03 | f | SALESMAN | 1701 | 2021-01-02 |
45000.00 | 3000.00 | 111 | NULL | 111 | MARKETING | 1 |
| 2102 | FARIYA | TAJ | 1999-01-03 | f | DEVELOPER | 2001 | 2021-03-01 | 32000.00
| 3600.00 | 113 | NULL | 113 | TECHNICAL | 10 |
| 2103 | PRIYA | SHETTY | 1998-03-20 | f | ACCOUNTANT | 2001 | 2021-05-01 |
32000.00 | 3600.00 | 112 | NULL | 112 | ACCOUNTING | 4 |
| 2104 | AMAN | RAI | 1998-08-15 | m | SALESMAN | 1701 | 2021-12-26 |
40000.00 | NULL | 111 | NULL | 111 | MARKETING | 1 |
| 2201 | KIRAN | RAJ | 1999-09-21 | m | ACCOUNTANT | NULL | 2022-08-28 |
30000.00 | 3600.00 | 115 | 503 | NULL | NULL | NULL |
| NULL | NULL | NULL | NULL | NULL | NULL | NULL | NULL | NULL |
NULL | NULL | NULL | 114 | HR | 12 |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
---+-----+-----+-----+
14 rows in set (0.01 sec)
```

Wqtd details of 3rd and 5th record from emp table?

```
(Select * from emp limit 1 offset 2 )
Union
(select * from emp limit 1 offset 4);
```

```
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
--+
| EID | FNAME | LNAME | DOB | GENDER | JOB | MGR | DOJ | SAL |
COMM | DNO | CID |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
--+
| 1801 | JAHNAVI | NAIK | 1996-04-11 | f | DISPATCHER | 1702 | 2020-02-15 |
450000.00 | 1000.00 | 110 | NULL |
| 1902 | ABHIJIT | GOWDA | 1997-12-25 | m | DISPATCHER | 1702 | 2019-02-28 |
50000.00 | NULL | 110 | 505 |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
--+
2 rows in set (0.00 sec)
```

Create database demo;

To disable AutoCommit in mysql

```
;
Set AutoCommit=0;
Query OK, 0 rows affected (0.01 sec)
```

```
mysql> show tables;
Empty set (0.08 sec)
```

```
mysql> create table employee
-> (id int not null,
-> name varchar(20) not null);
Query OK, 0 rows affected (0.06 sec)
```

```
mysql> insert into employee values(1,"rohit"),(2,'virat');
```

Query OK, 2 rows affected (0.01 sec)

Records: 2 Duplicates: 0 Warnings: 0

```
mysql> desc employee;
```

Field	Type	Null	Key	Default	Extra
id	int	NO		NULL	
name	varchar(20)	NO		NULL	

2 rows in set (0.01 sec)

```
select *from employee;
```

id	name
1	rohit
2	virat

To logout from server

Exit

To disable autocommit

```
Set AutoCommit=0;
```

Saved permanently inside the table

Commit

```
Set AutoCommit=0;
```

Query OK, 0 rows affected (0.00 sec)

```
mysql> insert into employee values(3,'hardik');
```

Query OK, 1 row affected (0.00 sec)

```
mysql> update employee set name='pandya'where id=3;
```

Query OK, 1 row affected (0.00 sec)

Rows matched: 1 Changed: 1 Warnings: 0

Rollback

Rollback;

E

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

```
mysql> use demo;
```

Database changed


```
mysql> select * from employee;
```

```
+----+-----+  
| id | name |  
+----+-----+  
| 1 | rohit |  
| 2 | virat |  
+----+-----+
```

```
2 rows in set (0.00 sec)
```

```
mysql> insert into employee values(3,'hardik');
```

```
Query OK, 1 row affected (0.01 sec)
```

```
mysql> Commit;
```

```
Query OK, 0 rows affected (0.00 sec)
```

```
mysql> insert into employee values(4,'kl rahul');
```

```
Query OK, 1 row affected (0.01 sec)
```

```
mysql> Commit;
```

```
Query OK, 0 rows affected (0.00 sec)
```

```
mysql> select * from employee;
```

```
+----+-----+  
| id | name |  
+----+-----+  
| 1 | rohit |  
| 2 | virat |  
| 3 | hardik |  
| 4 | kl rahul |  
+----+-----+
```

```
4 rows in set (0.00 sec)
```

```
mysql> rollback;
```

```
Query OK, 0 rows affected (0.00 sec)
```

```
mysql> select * from employee;
```

```
+----+-----+  
| id | name |  
+----+-----+  
| 1 | rohit |  
| 2 | virat |  
| 3 | hardik |  
| 4 | kl rahul |  
+----+-----+
```

```
4 rows in set (0.00 sec)
```

```
mysql> rollback;
```

```
Query OK, 0 rows affected (0.00 sec)
```

```
mysql> select * from employee;
```

```
+----+-----+
```

```
| id | name |
+----+-----+
| 1 | rohit |
| 2 | virat |
| 3 | hardik |
| 4 | kl rahul |
+----+-----+
4 rows in set (0.00 sec)
```

```
mysql> insert into employee values(5,'anu');
Query OK, 1 row affected (0.01 sec)
```

```
mysql> rollback;
Query OK, 0 rows affected (0.00 sec)
```

```
mysql> select * from employee;
```

```
+----+-----+
| id | name |
+----+-----+
| 1 | rohit |
| 2 | virat |
| 3 | hardik |
| 4 | kl rahul |
| 5 | anu |
+----+-----+
5 rows in set (0.00 sec)
```

```
mysql> set autocommit=0;
Query OK, 0 rows affected (0.00 sec)
```

```
mysql> insert into employee values(6,'janu');
Query OK, 1 row affected (0.00 sec)
```

```
mysql> rollback;
Query OK, 0 rows affected (0.00 sec)
```

```
mysql> select * from employee;
```

```
+----+-----+
| id | name |
+----+-----+
| 1 | rohit |
| 2 | virat |
| 3 | hardik |
| 4 | kl rahul |
| 5 | anu |
+----+-----+
5 rows in set (0.00 sec)
```

```
mysql>
delete from employee
-> where id=4;
```

Query OK, 1 row affected (0.00 sec)

```
mysql> delete from employee
```

```
-> where id=5;
```

Query OK, 1 row affected (0.00 sec)

```
select * from employee;
```

```
+----+-----+
| id | name |
+----+-----+
| 1 | rohit |
| 2 | virat |
| 3 | hardik |
+----+-----+
```

To get back kl rahul back

We use

Rollback;

```
delete from employee
```

```
-> where id=3;
```

Query OK, 1 row affected (0.00 sec)

```
mysql> select * from employee;
```

```
+----+-----+
| id | name |
+----+-----+
| 1 | rohit |
| 2 | virat |
+----+-----+
```

2 rows in set (0.00 sec)

```
mysql> rollback;
```

Query OK, 0 rows affected (0.00 sec)

```
mysql> select * from employee;
```

```
+----+-----+
| id | name |
+----+-----+
| 1 | rohit |
| 2 | virat |
| 3 | hardik |
+----+-----+
```

3 rows in set (0.00 sec)

If we use commit means we can not rollback

```
select * from employee;
```

```
+----+-----+
| id | name |
+----+-----+
| 1 | rohit |
| 2 | virat |
```

```
| 3 | hardik |
+----+-----+
3 rows in set (0.00 sec)
```

```
mysql> commit;
Query OK, 0 rows affected (0.01 sec)
```

```
mysql> Rollback;
Query OK, 0 rows affected (0.00 sec)
```

```
mysql> select * from employee;
```

```
+----+-----+
| id | name |
+----+-----+
| 1 | rohit |
| 2 | virat |
| 3 | hardik |
+----+-----+
```

Another 3 record

```
insert into employee values(4,'kl rahul');
Query OK, 1 row affected (0.00 sec)
```

```
mysql> commit;
Query OK, 0 rows affected (0.01 sec)
```

```
mysql> insert into employee values(5,'jadeja');
Query OK, 1 row affected (0.00 sec)
```

```
mysql> commit;
Query OK, 0 rows affected (0.01 sec)
```

```
mysql> insert into employee values(6,'ashwin');
Query OK, 1 row affected (0.00 sec)
```

```
mysql> select * from employee;
```

```
+----+-----+
| id | name |
+----+-----+
| 1 | rohit |
| 2 | virat |
| 3 | hardik |
| 4 | kl rahul |
| 5 | jadeja |
| 6 | ashwin |
+----+-----+
```

```
6 rows in set (0.00 sec)
```

```
mysql>
```

savepoint

savepoint h1;

Query OK, 0 rows affected (0.00 sec)

mysql> insert into employee values(7,'bumrah');

Query OK, 1 row affected (0.00 sec)

mysql> **savepoint h2;**

Query OK, 0 rows affected (0.00 sec)

mysql> insert into employee values(8,'pant');

Query OK, 1 row affected (0.00 sec)

mysql> **savepoint h3;**

Query OK, 0 rows affected (0.00 sec)

mysql> insert into employee values(9,'iyer');

Query OK, 1 row affected (0.00 sec)

select * from employee;

```
+----+-----+
| id | name  |
+----+-----+
| 1  | rohit |
| 2  | virat |
| 3  | hardik |
| 4  | kl rahul |
| 5  | jadeja |
| 6  | ashwin |
| 7  | bumrah |
| 8  | pant  |
| 9  | iyer  |
+----+-----+
```

Syntax to delet last 3 insert operation
Col

Rollback to h1;

Query OK, 0 rows affected (0.00 sec)

mysql> select * from employee;

```
+----+-----+
| id | name  |
+----+-----+
| 1  | rohit |
| 2  | virat |
| 3  | hardik |
| 4  | kl rahul |
| 5  | jadeja |
| 6  | ashwin |
+----+-----+
```

6 rows in set (0.00 sec)

DCL Command

```
use information_schema;
```

Database changed

```
mysql> show tables;
```

```
+-----+
| Tables_in_information_schema |
+-----+
| ADMINISTRABLE_ROLE_AUTHORIZATIONS |
| APPLICABLE_ROLES |
| CHARACTER_SETS |
| CHECK_CONSTRAINTS |
| COLLATION_CHARACTER_SET_APPLICABILITY |
| COLLATIONS |
| COLUMN_PRIVILEGES |
| COLUMN_STATISTICS |
| COLUMNS |
| COLUMNS_EXTENSIONS |
| ENABLED_ROLES |
| ENGINES |
| EVENTS |
| FILES |
| INNODB_BUFFER_PAGE |
| INNODB_BUFFER_PAGE_LRU |
| INNODB_BUFFER_POOL_STATS |
| INNODB_CACHED_INDEXES |
| INNODB_CMP |
| INNODB_CMP_PER_INDEX |
| INNODB_CMP_PER_INDEX_RESET |
| INNODB_CMP_RESET |
| INNODB_CMPMEM |
| INNODB_CMPMEM_RESET |
| INNODB_COLUMNS |
| INNODB_DATAFILES |
| INNODB_FIELDS |
| INNODB_FOREIGN |
| INNODB_FOREIGN_COLS |
| INNODB_FT_BEING_DELETED |
| INNODB_FT_CONFIG |
| INNODB_FT_DEFAULT_STOPWORD |
| INNODB_FT_DELETED |
| INNODB_FT_INDEX_CACHE |
| INNODB_FT_INDEX_TABLE |
| INNODB_INDEXES |
| INNODB_METRICS |
| INNODB_SESSION_TEMP_TABLESPACES |
| INNODB_TABLES |
| INNODB_TABLESPACES |
| INNODB_TABLESPACES_BRIEF |
| INNODB_TABLESTATS |
```

INNODB_TEMP_TABLE_INFO	
INNODB_TRX	
INNODB_VIRTUAL	
KEY_COLUMN_USAGE	
KEYWORDS	
OPTIMIZER_TRACE	
PARAMETERS	
PARTITIONS	
PLUGINS	
PROCESSLIST	
PROFILING	
REFERENTIAL_CONSTRAINTS	
RESOURCE_GROUPS	
ROLE_COLUMN_GRANTS	
ROLE_ROUTINE_GRANTS	
ROLE_TABLE_GRANTS	
ROUTINES	
SCHEMA_PRIVILEGES	
SCHEMATA	
SCHEMATA_EXTENSIONS	
ST_GEOMETRY_COLUMNS	
ST_SPATIAL_REFERENCE_SYSTEMS	
ST_UNITS_OF_MEASURE	
STATISTICS	
TABLE_CONSTRAINTS	
TABLE_CONSTRAINTS_EXTENSIONS	
TABLE_PRIVILEGES	
TABLES	
TABLES_EXTENSIONS	
TABLESPACES	
TABLESPACES_EXTENSIONS	
TRIGGERS	
USER_ATTRIBUTES	
USER_PRIVILEGES	
VIEW_ROUTINE_USAGE	
VIEW_TABLE_USAGE	
VIEWS	

+-----+

79 rows in set (0.01 sec)

select * from USER_ATTRIBUTES ;

+-----+

USER	HOST	ATTRIBUTE
------	------	-----------

+-----+

mysql.infoschema	localhost	NULL
mysql.session	localhost	NULL
mysql.sys	localhost	NULL
root	localhost	NULL

+-----+

4 rows in set (0.03 sec)

select user();

```

+-----+
| user() |
+-----+
| root@localhost |
+-----+
1 row in set (0.00 sec)
Create user 'pentagon' @ 'localhost' identified by 'pentagon';

```

To check

```

select * from USER_ATTRIBUTES ;
+-----+-----+-----+
| USER      | HOST    | ATTRIBUTE |
+-----+-----+-----+
| mysql.infoschema | localhost | NULL      |
| mysql.session   | localhost | NULL      |
| mysql.sys       | localhost | NULL      |
| pentagon       | localhost | NULL     |
| root           | localhost | NULL      |
+-----+-----+-----+
5 rows in set (0.00 sec)

```

Next in command prompt

```

C:\Users\ANUSHREE>cd C:\Program Files\MySQL\MySQL Server 8.0\bin
C:\Program Files\MySQL\MySQL Server 8.0\bin>mysql -u pentagon -p
Enter password: *****

```

Welcome to the MySQL monitor. Commands end with ; or \g.
Your MySQL connection id is 14
Server version: 8.0.41 MySQL Community Server - GPL

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Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

```

select user();
+-----+
| user() |
+-----+
| pentagon@localhost |
+-----+

```

```

Use amazon;
GRANT SELECT ON EMP TO 'pentagon'@'localhost';
Query OK, 0 rows affected (0.01 sec)

```


SHOW DATABASES;

```
+-----+
| Database      |
+-----+
| amazon        |
| information_schema |
| performance_schema |
+-----+
3 rows in set (0.00 sec)
```

mysql> USE AMAZON;

Database changed

mysql> SHOW TABLES;

```
+-----+
| Tables_in_amazon |
+-----+
| emp              |
+-----+
1 row in set (0.00 sec)
```

UPDATE EMP

SET FNAME='SQL'

-> WHERE EID =2201;

ERROR 1142 (42000): UPDATE command denied to user 'pentagon'@'localhost' for table 'emp'

GRANT UPDATE ON EMP TO 'pentagon'@'localhost';

Query OK, 0 rows affected (0.01 sec)

UPDATE EMP

-> SET FNAME='SQL'

-> WHERE EID =2201;

Query OK, 1 row affected (0.00 sec)

Rows matched: 1 Changed: 1 Warnings: 0

DELETE FROM EMP WHERE FNAME='SQL';

ERROR 1142 (42000): DELETE command denied to user 'pentagon'@'localhost' for table 'emp'

mysql>

TO GRANT ALL THE PERMISSION

GRANT ALL ON EMP TO 'pentagon'@'localhost';

Query OK, 0 rows affected (0.01 sec)

DELETE FROM EMP WHERE FNAME='SQL';

Query OK, 1 row affected (0.00 sec)

mysql> SELECT * FROM EMP;

```
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
----+
| EID | FNAME | LNAME | DOB   | GENDER | JOB   | MGR | DOJ   | SAL   |
COMM | DNO | CID |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
----+
```

```

| 1701 | RAHUL | MUKARJEE | 1991-02-19 | m | MANAGER | 1702 | 2017-04-17 |
100000.00 | NULL | 111 | NULL |
| 1702 | SAMEER | KHAN | 1995-04-20 | m | MANAGER | 2001 | 2017-07-07 |
90000.00 | NULL | 110 | NULL |
| 1801 | JAHNAVI | NAIK | 1996-04-11 | f | DISPATCHER | 1702 | 2020-02-15 |
450000.00 | 1000.00 | 110 | NULL |
| 1901 | SHIVANI | RAI | 1998-11-07 | f | TESTER | 2201 | 2019-12-12 | 450000.00 |
NULL | 113 | 502 |
| 1902 | ABHIJIT | GOWDA | 1997-12-25 | m | DISPATCHER | 1702 | 2019-02-28 |
50000.00 | NULL | 110 | 505 |
| 1903 | KARAN | BHAT | 1997-12-26 | m | SALESMAN | 1701 | 2019-12-26 |
45000.00 | NULL | 111 | 506 |
| 2001 | MURALI | KRISHNAN | 1998-06-08 | m | DISPATCHER | 2201 | 2020-03-15 |
45000.00 | 1000.00 | 110 | NULL |
| 2002 | DHARANI | PATIL | 1998-11-10 | f | DEVELOPER | 2001 | 2021-06-20 |
30000.00 | 3000.00 | 113 | NULL |
| 2101 | RASHMI | GONDA | 1995-10-03 | f | SALESMAN | 1701 | 2021-01-02 |
45000.00 | 3000.00 | 111 | NULL |
| 2102 | FARIYA | TAJ | 1999-01-03 | f | DEVELOPER | 2001 | 2021-03-01 | 32000.00
| 3600.00 | 113 | NULL |
| 2103 | PRIYA | SHETTY | 1998-03-20 | f | ACCOUNTANT | 2001 | 2021-05-01 |
32000.00 | 3600.00 | 112 | NULL |
| 2104 | AMAN | RAI | 1998-08-15 | m | SALESMAN | 1701 | 2021-12-26 |
40000.00 | NULL | 111 | NULL |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
----+
12 rows in set (0.00 sec)

```

REVOKE

```

REVOKE UPDATE ON EMP FROM 'pentagon'@'localhost';
Query OK, 0 rows affected (0.01 sec)

```

```

update emp
set fname='sql'
where eid=2201;

```

```

ERROR 1142 (42000): UPDATE command denied to user 'pentagon'@'localhost' for table
'emp'
DELETE FROM EMP WHERE FNAME='aman';
Query OK, 1 row affected (0.00 sec)

```

```

mysql> select * from emp;
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
----+
| EID | FNAME | LNAME | DOB | GENDER | JOB | MGR | DOJ | SAL |
COMM | DNO | CID |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
----+

```

```

| 1701 | RAHUL | MUKARJEE | 1991-02-19 | m | MANAGER | 1702 | 2017-04-17 |
100000.00 | NULL | 111 | NULL |
| 1702 | SAMEER | KHAN | 1995-04-20 | m | MANAGER | 2001 | 2017-07-07 |
90000.00 | NULL | 110 | NULL |
| 1801 | JAHNAVI | NAIK | 1996-04-11 | f | DISPATCHER | 1702 | 2020-02-15 |
450000.00 | 1000.00 | 110 | NULL |
| 1901 | SHIVANI | RAI | 1998-11-07 | f | TESTER | 2201 | 2019-12-12 | 450000.00 |
NULL | 113 | 502 |
| 1902 | ABHIJIT | GOWDA | 1997-12-25 | m | DISPATCHER | 1702 | 2019-02-28 |
50000.00 | NULL | 110 | 505 |
| 1903 | KARAN | BHAT | 1997-12-26 | m | SALESMAN | 1701 | 2019-12-26 |
45000.00 | NULL | 111 | 506 |
| 2001 | MURALI | KRISHNAN | 1998-06-08 | m | DISPATCHER | 2201 | 2020-03-15 |
45000.00 | 1000.00 | 110 | NULL |
| 2002 | DHARANI | PATIL | 1998-11-10 | f | DEVELOPER | 2001 | 2021-06-20 |
30000.00 | 3000.00 | 113 | NULL |
| 2101 | RASHMI | GONDA | 1995-10-03 | f | SALESMAN | 1701 | 2021-01-02 |
45000.00 | 3000.00 | 111 | NULL |
| 2102 | FARIYA | TAJ | 1999-01-03 | f | DEVELOPER | 2001 | 2021-03-01 | 32000.00
| 3600.00 | 113 | NULL |
| 2103 | PRIYA | SHETTY | 1998-03-20 | f | ACCOUNTANT | 2001 | 2021-05-01 |
32000.00 | 3600.00 | 112 | NULL |

```

```

+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
----+

```

11 rows in set (0.00 sec)

```
REVOKE all ON EMP FROM 'pentagon'@'localhost';
```

Query OK, 0 rows affected (0.01 sec)

```
select * from emp;
```

ERROR 1142 (42000): SELECT command denied to user 'pentagon'@'localhost' for table 'emp'

```
use amazon;
```

ERROR 1044 (42000): Access denied for user 'pentagon'@'localhost' to database 'amazon'

Drop the user

```
Drop user 'pentagon'@'localhost';
```

Query OK, 0 rows affected (0.01 sec)

To check

```
use information_schema;
```

Database changed

```
mysql> select * from USER_ATTRIBUTES;
```

```

+-----+-----+-----+
| USER      | HOST      | ATTRIBUTE |
+-----+-----+-----+
| mysql.infoschema | localhost | NULL      |
| mysql.session   | localhost | NULL      |
| mysql.sys       | localhost | NULL      |
| root           | localhost | NULL      |

```

```
+-----+-----+-----+
4 rows in set (0.01 sec)
```

Is it possible to create duplicate table?

Yes

```
Create table emp1(select * from emp);
Select * from emp1;
```

```
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
----+
| EID | FNAME | LNAME | DOB | GENDER | JOB | MGR | DOJ | SAL |
COMM | DNO | CID |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
----+
| 1701 | RAHUL | MUKARJEE | 1991-02-19 | m | MANAGER | 1702 | 2017-04-17 |
100000.00 | NULL | 111 | NULL |
| 1702 | SAMEER | KHAN | 1995-04-20 | m | MANAGER | 2001 | 2017-07-07 |
90000.00 | NULL | 110 | NULL |
| 1801 | JAHNAVI | NAIK | 1996-04-11 | f | DISPATCHER | 1702 | 2020-02-15 |
450000.00 | 1000.00 | 110 | NULL |
| 1901 | SHIVANI | RAI | 1998-11-07 | f | TESTER | 2201 | 2019-12-12 | 450000.00 |
NULL | 113 | 502 |
| 1902 | ABHIJIT | GOWDA | 1997-12-25 | m | DISPATCHER | 1702 | 2019-02-28 |
50000.00 | NULL | 110 | 505 |
| 1903 | KARAN | BHAT | 1997-12-26 | m | SALESMAN | 1701 | 2019-12-26 |
45000.00 | NULL | 111 | 506 |
| 2001 | MURALI | KRISHNAN | 1998-06-08 | m | DISPATCHER | 2201 | 2020-03-15 |
45000.00 | 1000.00 | 110 | NULL |
| 2002 | DHARANI | PATIL | 1998-11-10 | f | DEVELOPER | 2001 | 2021-06-20 |
30000.00 | 3000.00 | 113 | NULL |
| 2101 | RASHMI | GONDA | 1995-10-03 | f | SALESMAN | 1701 | 2021-01-02 |
45000.00 | 3000.00 | 111 | NULL |
| 2102 | FARIYA | TAJ | 1999-01-03 | f | DEVELOPER | 2001 | 2021-03-01 | 32000.00
| 3600.00 | 113 | NULL |
| 2103 | PRIYA | SHETTY | 1998-03-20 | f | ACCOUNTANT | 2001 | 2021-05-01 |
32000.00 | 3600.00 | 112 | NULL |
| 2104 | AMAN | RAI | 1998-08-15 | m | SALESMAN | 1701 | 2021-12-26 |
40000.00 | NULL | 111 | NULL |
| 2201 | KIRAN | RAJ | 1999-09-21 | m | ACCOUNTANT | NULL | 2022-08-28 |
30000.00 | 3600.00 | 115 | 503 |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
----+
13 rows in set (0.00 sec)
```

Is it possible to create duplicate table without records?

Yes

```
Create table emp2 (select * from emp where fname='rohit sharma');
```

Query OK, 0 rows affected (22.66 sec) vft6
Records: 0 Duplicates: 0 Warnings: 0

mysql> desc emp2;

Field	Type	Null	Key	Default	Extra
EID	int	NO		NULL	
FNAME	varchar(20)	NO		NULL	
LNAME	varchar(20)	NO		NULL	
DOB	date	NO		NULL	
GENDER	enum('m','f','o')	NO		NULL	
JOB	varchar(20)	NO		NULL	
MGR	int	YES		NULL	
DOJ	date	NO		NULL	
SAL	decimal(10,2)	NO		NULL	
COMM	decimal(10,2)	YES		NULL	
DNO	int	YES		NULL	
CID	int	YES		NULL	

12 rows in set (0.03 sec)

mysql> select * from emp2;
Empty set (0.00 sec)

Is it possible to add records from 1 table to another table?
(table structure should be same)

mysql> Insert into emp2(select * from emp where job='manager');
Query OK, 2 rows affected (0.01 sec)
Records: 2 Duplicates: 0 Warnings: 0

mysql> select * from emp2;

EID	FNAME	LNAME	DOB	GENDER	JOB	MGR	DOJ	SAL	COMM	DNO	CID
1701	RAHUL	MUKARJEE	1991-02-19	m	MANAGER	1702	2017-04-17	100000.00	NULL	111	NULL
1702	SAMEER	KHAN	1995-04-20	m	MANAGER	2001	2017-07-07	90000.00	NULL	110	NULL

2 rows in set (0.00 sec)

Insert into emp2 (select * from dept where dname='marketing');

ERROR 1136 (21S01): Column count doesn't match value count at row 1

(table structure is different)

Subtable

```
create table salesman_data(select * from emp job='salesman');
```