**SELECT COMMANDS**

1. **Retrieve all attribute values from employee.**

SELECT \* FROM Employee;

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

| name | gender | salary | work\_exp | contact\_no | designation | ssn | reg\_no1 | address |

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

| Deepika | Female | 2000 | 3 | 92313 | Designer | 111 | NULL | NULL |

| Alia | Female | 3000 | 4 | 92312 | Manager | 222 | NULL | NULL |

| Rohan | Male | 4000 | 4 | 923213| Engineer | 333 | NULL | NULL |

| Sagar | Male | 1000 | 3 | 991234 | Developer | 444 | NULL | NULL |

| Manan | Male | 5000 | 4 | 92323 | Analyst | 555 | NULL | NULL |

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

1. **Retrieve the cross product of Frequent\_Flyer and Non\_Frequent\_Flyer.**

SELECT \* FROM FREQUENT\_FLYER, NON\_FREQUENT\_FLYER;

mysql> select \* from frequent\_flyer,non\_frequent\_flyer;

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

| card\_id | premium\_class | ticket\_no | voucher\_id | ticket\_no |

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

| 123450 | Silver | abc123 | 9875 | abc456 |

| 123450 | Silver | abc123 | 9876 | pqr123 |

| 123450 | Silver | abc123 | NULL | xyz123 |

| 123450 | Silver | abc123 | NULL | xyz456 |

| 123452 | Blue | abc456 | 9875 | abc456 |

| 123452 | Blue | abc456 | 9876 | pqr123 |

| 123452 | Blue | abc456 | NULL | xyz123 |

| 123452 | Blue | abc456 | NULL | xyz456 |

| 123451 | Gold | pqr123 | 9875 | abc456 |

| 123451 | Gold | pqr123 | 9876 | pqr123 |

| 123451 | Gold | pqr123 | NULL | xyz123 |

| 123451 | Gold | pqr123 | NULL | xyz456 |

| 123454 | Platinum | xyz123 | 9875 | abc456 |

| 123454 | Platinum | xyz123 | 9876 | pqr123 |

| 123454 | Platinum | xyz123 | NULL | xyz123 |

| 123454 | Platinum | xyz123 | NULL | xyz456 |

| 123453 | Platinum | xyz456 | 9875 | abc456 |

| 123453 | Platinum | xyz456 | 9876 | pqr123 |

| 123453 | Platinum | xyz456 | NULL | xyz123 |

| 123453 | Platinum | xyz456 | NULL | xyz456 |

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

20 rows in set (0.00 sec)

**3. Retrieve ssn of all employees who's designation is Developer.**

SELECT ssn FROM EMPLOYEE

WHERE designation = 'Developer';

mysql> select ssn from employee

-> where designation = 'Developer';

+-----+

| ssn |

+-----+

| 444 |

+-----+

1 row in set (0.00 sec)

**4. Retrieve name and contact no. of all employees who work for Emirates.**

SELECT e.name, e.contact\_no FROM Employee as e, Airline as a

WHERE a.name = 'Emirates' and a.registration\_no = e.reg\_no1;

mysql> SELECT e.name, e.contact\_no FROM Employee as e, Airline as a

-> WHERE a.name = 'Emirates' and a.registration\_no = e.reg\_no1;

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

| name | contact\_no |

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

| Rohan | 923213 |

| Sagar | 991234 |

| Manan | 92323 |

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

3 rows in set (0.02 sec)

**5. Retrieve distinct addresses from employee.**

SELECT DISTINCT ADDRESS FROM Employee;

mysql> SELECT DISTINCT ADDRESS FROM EMPLOYEE;

+---------+

| ADDRESS |

+---------+

| NULL |

+---------+

1 row in set (0.00 sec)

**6. Retrieve all addresses from employee.**

SELECT ALL ADDRESS FROM Employee;

mysql> SELECT ALL ADDRESS FROM EMPLOYEE;

+---------+

| ADDRESS |

+---------+

| NULL |

| NULL |

| NULL |

| NULL |

| NULL |

+---------+

5 rows in set (0.00 sec)

**7. Retrieve all customer names having birth year 1989.**

SELECT FNAME,LNAME FROM Customer

WHERE b\_date like '%1989%';

mysql> SELECT FNAME,LNAME FROM CUSTOMER

-> WHERE b\_date like '%1989%';

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

| FNAME | LNAME |

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

| Suresh | Raina |

| Mahendra | Dhoni |

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

2 rows in set, 1 warning (0.00 sec)

**8. Retrieve all employee names whose phone no. starts with 992.**

SELECT name FROM Employee

WHERE contact\_no like '923\_\_';

mysql> SELECT name from Employee

-> WHERE contact\_no like '923\_\_';

+---------+

| name |

+---------+

| Deepika |

| Alia |

| Manan |

+---------+

3 rows in set (0.00 sec)

**9. Retrieve all employee names as Employee\_name where registration no. is 1.**

SELECT name as Employee\_name

FROM Employee

WHERE reg\_no1 = 1;

mysql> SELECT name as Employee\_name

-> FROM Employee

-> WHERE reg\_no1 = 1;

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

| Employee\_name |

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

| Rohan |

| Sagar |

| Manan |

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

3 rows in set (0.00 sec)

**10. Retrieve all employees in Emirates whose salary is between 30000 and 60000**

SELECT \* FROM Employee

WHERE (salary BETWEEN 2000 AND 4000) AND reg\_no1=1;

mysql> SELECT \* FROM Employee

-> WHERE (salary BETWEEN 2000 AND 4000) AND reg\_no1=1;

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

| name | gender | salary | work\_exp | address | contact\_no | designation | ssn | reg\_no1 |

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

| Rohan | Male | 4000 | 4 | NULL | 923213 | Engineer | 333 | 1 |

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

1 row in set (0.00 sec)

**11. Retrieve ssn, name, contact number and airline name of all employees who work for Emirates ordered alphabetically in ascending order by employee name and descending order by airline name.**

SELECT ssn, e.name, contact\_no, a.name

FROM Employee as e, Airline as a

WHERE a.name='Emirates' and registration\_no = reg\_no1

ORDER BY a.name desc, e.name asc;

mysql> SELECT ssn, e.name, contact\_no, a.name

-> FROM Employee as e, Airline as a

-> WHERE a.name='Emirates' and registration\_no = reg\_no1

-> ORDER BY a.name desc, e.name asc;

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

| ssn | name | contact\_no | name |

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

| 555 | Manan | 92323 | Emirates |

| 333 | Rohan | 923213 | Emirates |

| 444 | Sagar | 991234 | Emirates |

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

3 rows in set (0.00 sec)

**12. Retrieve names of all employees who do not get salary.**

SELECT name FROM Employee

WHERE salary is NULL;

mysql> SELECT name FROM Employee

-> WHERE salary is NULL;

Empty set (0.00 sec)

**13. Retrieve maximum salary offered to employees**

SELECT max(salary) FROM Employee;

mysql> SELECT max(salary) FROM Employee;

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

| max(salary) |

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

| 5000 |

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

1 row in set (0.01 sec)

**14. Retrieve minimum salary offered to employees**

SELECT min(salary) FROM Employee;

mysql> SELECT min(salary) FROM Employee;

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

| min(salary) |

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

| 1000 |

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

1 row in set (0.00 sec)

**15. Retrieve airline wise average salary of employee.**

SELECT avg(salary) FROM Employee

GROUP BY reg\_no1;

mysql> SELECT avg(salary) FROM Employee

-> GROUP BY reg\_no1;

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

| avg(salary) |

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

| 2500.0000 |

| 3333.3333 |

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

2 rows in set (0.01 sec)

**16. Retrieve total number of employees.**

SELECT count(\*) FROM Employee;

mysql> SELECT count(\*) FROM Employee;

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

| count(\*) |

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

| 5 |

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

1 row in set (0.00 sec)

**17. Retrieve airline name, airline number and average salary for all airlines having average salary greater than 2500.**

SELECT a.name, reg\_no1, avg(salary) FROM Employee, Airline as a

WHERE registration\_no = reg\_no1

GROUP BY reg\_no1 HAVING avg(salary) > 2500;

mysql> SELECT a.name, reg\_no1, avg(salary) FROM Employee, Airline as a

-> WHERE registration\_no = reg\_no1

-> GROUP BY reg\_no1 HAVING avg(salary) > 2500;

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

| name | reg\_no1 | avg(salary) |

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

| Emirates | 1 | 3333.3333 |

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

1 row in set (0.00 sec)

**18. Retrieve total salary given to employees.**

SELECT sum(salary) FROM Employee;

mysql> SELECT sum(salary) FROM Employee;

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

| sum(salary) |

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

| 15000 |

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

1 row in set (0.02 sec)