**NESTED SUBQUERIES**

**1. Find the type of Airplanes which are of Airline ‘British Airways’.**

mysql> SELECT type FROM Airplane WHERE reg\_no IN (SELECT registration\_no FROM Airline WHERE name='British Airways');

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

| type |

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

| Boeing 777 |

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

1. row in set (0.00 sec)

**2. Find the type of Airplanes which are not of Airline ‘British Airways’.**

mysql> SELECT type FROM Airplane WHERE reg\_no NOT IN (SELECT registration\_no FROM Airline WHERE name='British Airways');

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

| type |

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

| Airbus A360 |

| Airbus A380 |

| Boeing 737 |

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

3 rows in set (0.00 sec)

**3. Find the type of Airplanes which have airspeed greater than atleast one Airplane of type 'Boeing 777'.**

mysql> SELECT type from Airplane

-> WHERE airspeed > some

-> (SELECT airspeed from Airplane WHERE type='Boeing 777');

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

| type |

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

| Airbus A360 |

| Airbus A380 |

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

2 rows in set (0.08 sec)

**4. Find the type of Airplanes which have airspeed greater than or equal to atleast one Airplane of type 'Boeing 777'.**

mysql> SELECT type from Airplane

-> WHERE airspeed >= some

-> (SELECT airspeed from Airplane WHERE type='Boeing 777');

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

| type |

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

| Boeing 777 |

| Airbus A360 |

| Airbus A380 |

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

3 rows in set (0.00 sec)

**5. Find the type of Airplanes which are of Airline ‘Turkish Airlines’ using EXISTS.**

mysql> SELECT type FROM Airplane WHERE EXISTS

-> (SELECT \* FROM Airline WHERE reg\_no = registration\_no AND

-> name='Turkish Airlines');

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

| type |

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

| Airbus A360 |

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

1 row in set (0.00 sec)

**6. Find the type of Airplanes which are not of Airline ‘Turkish Airlines’ using EXISTS.**

mysql> SELECT type FROM Airplane WHERE NOT EXISTS

-> (SELECT \* FROM Airline WHERE reg\_no = registration\_no AND

-> name='Turkish Airlines');

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

| type |

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

| Boeing 747 |

| Boeing 777 |

| Airbus A380 |

| Boeing 737 |

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

4 rows in set (0.00 sec)

**7. Create a backup of Airplane table by copying all records of Airplane to a new table Airplane\_bkp.**

mysql> CREATE TABLE Airplane\_bkp

-> (

-> type varchar(20) NOT NULL,

-> model\_no int AUTO\_INCREMENT,

-> airspeed int NOT NULL,

-> weight int NOT NULL,

-> reg\_no int,

-> PRIMARY KEY(model\_no),

-> CONSTRAINT reg1constraint

-> FOREIGN KEY(reg\_no) REFERENCES Airline(registration\_no)

-> on delete set null on update cascade

-> );

Query OK, 0 rows affected (0.23 sec)

mysql> INSERT INTO Airplane\_bkp

-> SELECT \* FROM Airplane;

Query OK, 5 rows affected (0.04 sec)

Records: 5 Duplicates: 0 Warnings: 0

mysql> SELECT \* FROM Airplane\_bkp;

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

| type | model\_no | airspeed | weight | reg\_no |

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

| Boeing 747 | 1 | 950 | 10000 | NULL |

| Boeing 777 | 2 | 1000 | 9000 | 2 |

| Airbus A360 | 3 | 1100 | 11000 | 3 |

| Airbus A380 | 4 | 1200 | 12000 | 4 |

| Boeing 737 | 5 | 900 | 8500 | 5 |

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

5 rows in set (0.00 sec)