**EXERCISE 06**

**01)** Find all minions who did not undergo training currently.

SELECT \*

FROM Minion

WHERE minion\_id NOT IN (SELECT minion\_id FROM Takes\_training);

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| minion\_id | evilness | name | gender | age | nationality | hiring\_charge |
| 302 | 204 | Bob | M | 8 | Japan | 140 |
| 304 | 204 | Dave | M | 9 | Russia | 120 |
| 305 | 202 | Mark | M | 5 | Germany | 80 |
| 307 | 204 | Liza | F | 3 | Japan | 150 |
| 308 | 203 | Mike | M | 6 | India | 90 |
| 309 | 202 | Paul | M | 9 | Russia | 85 |
| 310 | 204 | Lance | F | 6 | England | 70 |
| 312 | 203 | Steve | M | 7 | USA | 110 |

02) Select all master's from Japan who are involved in any mission.

SELECT M.\*

FROM Master M

JOIN Involved\_in I ON M.Master\_id = I.master\_id

JOIN Mission MS ON I.mission\_id = MS.mission\_id

WHERE M.nationality = 'Japan'

|  |  |  |  |
| --- | --- | --- | --- |
| master\_id | name | mtype | nationality |
| 110 | Japan | Japan | Japan |

03) Identify the list of minions and masters who share the same nationality.

SELECT M.name AS master\_name, MA.name AS minion\_name, M.nationality

FROM Master M

JOIN Minion MA ON M.nationality = MA.nationality;

|  |  |  |
| --- | --- | --- |
| master\_name | minion\_name | nationality |
| Lex Luthor | Stuart | USA |
| Loki | Stuart | USA |
| Mojo Jojo | Stuart | USA |
| Guru | Stuart | USA |
| Megatron | Bob | Japan |
| Ivan Dracula | Dave | Russia |
| Adolf Hitler | Mark | Germany |
| Lex Luthor | Phil | USA |
| Loki | Phil | USA |
| Mojo Jojo | Phil | USA |
| Guru | Phil | USA |
| Megatron | Liza | Japan |
| Ivan Dracula | Paul | Russia |
| Frankenstein | Lance | England |
| Lex Luthor | Steve | USA |
| Loki | Steve | USA |
| Mojo Jojo | Steve | USA |
| Guru | Steve | USA |

04) How many minions do not train other minions?

SELECT COUNT(DISTINCT M.minion\_id)

FROM Minion M

LEFT JOIN Takes\_training T ON M.minion\_id = T.minion\_id

WHERE T.training\_id IS NULL;

|  |
| --- |
| count |
| 8 |

05) Identify the trainers who are also involved in any mission.

SELECT DISTINCT M.name

FROM Master M

JOIN Involved\_in I ON M.Master\_id = I.master\_id;

|  |
| --- |
| name |
| Frankenstein |
| Mojo Jojo |
| Ivan Dracula |
| Megatron |

06) Find the average hiring charge of the successfully trained minions.

SELECT AVG(M.hiring\_charge)

FROM Minion M

WHERE M.minion\_id IN (SELECT T.minion\_id FROM Takes\_training T);

|  |
| --- |
| avg |
| 88.75 |

07) Which evilness does the 8-year-old minion(s) of level 3 or 4 possess?

SELECT DISTINCT E.description

FROM Minion M

JOIN Evilness E ON M.evilness = E.evil\_id

WHERE (M.age = 8)

AND (M.minion\_id IN (

SELECT I.minion\_id

FROM Involved\_in I

WHERE I.minion\_id = M.minion\_id

));

|  |
| --- |
| description |
| Yawn |

09) Identify the mission in which minions are yet to be involved.

SELECT M.mission\_id

FROM Mission M

LEFT JOIN Involved\_in I ON M.mission\_id = I.mission\_id

WHERE I.minion\_id IS NULL;

|  |
| --- |
| mission\_id |
| 505 |

10) Select all missions to which minions are assigned to.

SELECT DISTINCT M.\*

FROM Mission M

JOIN Involved\_in I ON M.mission\_id = I.mission\_id;

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| mission\_id | pre\_req | m\_count | country | estimate | status | from\_date | to\_date |
| 501 | 3 | 1 | Japan | 1200 | underway | 14-01-2017 | 18-01-2017 |
| 502 | 4 | 2 | USA | 2500 | underway | 16-01-2017 | 22-01-2017 |
| 503 | 3 | 1 | England | 2200 | underway | 02-02-2017 | 10-02-2017 |
| 504 | 2 | 3 | India | 2400 | completed | 18-12-2016 | 27-12-2016 |

11) Which mission has made payment to the minions upon completion of the mission?

SELECT DISTINCT M.\*

FROM Mission M

JOIN Payment P ON M.mission\_id = P.mission\_id;

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| mission\_id | pre\_req | m\_count | country | estimate | status | from\_date | to\_date |
| 504 | 2 | 3 | India | 2400 | completed | 18-12-2016 | 27-12-2016 |

12) Which female minion was involved in a mission and received payment?

SELECT DISTINCT MA.\*

FROM Minion MA

JOIN Involved\_in I ON MA.minion\_id = I.minion\_id

JOIN Payment P ON I.mission\_id = P.mission\_id

WHERE MA.gender = 'F';

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| minion\_id | evilness | name | gender | age | nationality | hiring\_charge |
| 311 | 202 | Zugi | F | 9 | India | 90 |

13) Which female minion was involved in a mission and yet to receive payment?

SELECT DISTINCT MA.\*

FROM Minion MA

JOIN Involved\_in I ON MA.minion\_id = I.minion\_id

LEFT JOIN Payment P ON I.mission\_id = P.mission\_id

WHERE MA.gender = 'F' AND P.mission\_id IS NULL;

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| minion\_id | evilness | name | gender | age | nationality | hiring\_charge |
| 310 | 204 | Lance | F | 6 | England | 70 |

14) Isolate the count of male and female minions, who have participated in the mission and not received payment

SELECT MA.gender, COUNT(DISTINCT MA.minion\_id) AS count

FROM Minion MA

JOIN Involved\_in I ON MA.minion\_id = I.minion\_id

LEFT JOIN Payment P ON I.mission\_id = P.mission\_id

WHERE P.mission\_id IS NULL

GROUP BY MA.gender;

|  |  |
| --- | --- |
| gender | count |
| F | 1 |
| M | 3 |

15) Find all minions involved in mission and does not undergo training currently; but they teach any course.

SELECT M.\*

FROM Minion M

JOIN Involved\_in I ON M.minion\_id = I.minion\_id

LEFT JOIN Takes\_training T ON M.minion\_id = T.minion\_id

WHERE T.training\_id IS NULL AND M.minion\_id IN (SELECT T.minion\_id FROM Takes\_training T);

Empty table