-- TASK 1

SELECT enemy\_name as "Enemy", incident\_desc as "Fault description" FROM incidents

WHERE TO\_CHAR(incident\_date, 'YYYY') = '2009';

-- TASK 2

SELECT name, function, in\_herd\_since as "WITH AS FROM" FROM cats

WHERE in\_herd\_since BETWEEN TO\_DATE('2005-09-01', 'YYYY-MM-DD') AND TO\_DATE('2007-07-31', 'YYYY-MM-DD');

-- TASK 3

SELECT enemy\_name as "ENEMY", species, hostility\_degree as "HOSTILITY DEGREE"

FROM enemies

ORDER BY hostility\_degree ASC;

-- TASK 4

SELECT

NAME || ' called ' || NICKNAME || ' (fun. ' || FUNCTION || ') has been catching mice in band ' || BAND\_NO || ' since ' || TO\_CHAR(IN\_HERD\_SINCE, 'YYYY-MM-DD') AS ALL\_ABOUT\_MALE\_CATS

FROM

cats

WHERE

GENDER = 'M'

ORDER BY IN\_HERD\_SINCE DESC, NICKNAME ASC;

-- TASK 5

SELECT

NICKNAME,

REGEXP\_REPLACE(REGEXP\_REPLACE(NICKNAME, 'A', '#', 1, 1), 'L', '%', 1, 1)

"After replacing A and L"

FROM

Cats

WHERE

INSTR(NICKNAME, 'A') > 0 AND INSTR(NICKNAME, 'L') > 0;

-- TASK 6

-- use SYSDATE for current date

SELECT name , in\_herd\_since "In herd", CEIL(mice\_ration \* 0.9) "Ate", ADD\_MONTHS(in\_herd\_since, 6) "Increase", mice\_ration "Eat"

FROM Cats

WHERE in\_herd\_since <= ADD\_MONTHS(TO\_DATE('2020-04-04', 'YYYY-MM-DD'), -132)

AND EXTRACT(MONTH FROM in\_herd\_since) BETWEEN 3 AND 9

ORDER BY mice\_ration DESC;

-- TASK 7

SELECT name, mice\_ration \* 3 "MICE QUARTERLY", NVL(mice\_extra, 0) \* 3 "EXTRA QUATERLY"

FROM Cats

WHERE mice\_ration > NVL(mice\_extra \* 2, 0)

AND mice\_ration >= 55

ORDER BY mice\_ration DESC, name ASC;

-- TASK 8

SELECT name,

CASE

WHEN (NVL(mice\_ration,0) \* 12) > 660 THEN TO\_CHAR((NVL(mice\_ration,0) \* 12))

WHEN (NVL(mice\_ration,0) \* 12) = 660 THEN 'LIMIT'

WHEN (NVL(mice\_ration,0) \* 12) < 660 THEN 'Below 660'

END "Eats annually"

FROM Cats

ORDER BY name ASC;

-- TASK 9

SELECT nickname, in\_herd\_since "IN HERD",

CASE

WHEN NEXT\_DAY(LAST\_DAY('2020-10-27')-7,'WEDNESDAY') >= '2020-10-27' THEN

CASE

WHEN EXTRACT(DAY FROM in\_herd\_since) BETWEEN 1 AND 15 THEN NEXT\_DAY(LAST\_DAY('2020-10-27')-7,'WEDNESDAY')

ELSE NEXT\_DAY(LAST\_DAY(ADD\_MONTHS('2020-10-27',1))-7,'WEDNESDAY')

END

ELSE NEXT\_DAY(LAST\_DAY(ADD\_MONTHS('2020-10-27',1))-7,'WEDNESDAY')

END "PAYMENT"

FROM cats

ORDER BY in\_herd\_since;

SELECT nickname, in\_herd\_since "IN HERD",

CASE

WHEN NEXT\_DAY(LAST\_DAY('2020-10-29')-7,'WEDNESDAY') >= '2020-10-29' THEN

CASE

WHEN EXTRACT(DAY FROM in\_herd\_since) BETWEEN 1 AND 15 THEN NEXT\_DAY(LAST\_DAY('2020-10-29')-7,'WEDNESDAY')

ELSE NEXT\_DAY(LAST\_DAY(ADD\_MONTHS('2020-10-29',1))-7,'WEDNESDAY')

END

ELSE NEXT\_DAY(LAST\_DAY(ADD\_MONTHS('2020-10-29',1))-7,'WEDNESDAY')

END "PAYMENT"

FROM cats

ORDER BY in\_herd\_since;

-- TASK 10

SELECT

CASE

WHEN COUNT(nickname) = 1 THEN nickname || ' - unique'

ELSE nickname || ' - non-unique'

END "The uniqueness of the nickname"

FROM cats

GROUP BY nickname

ORDER BY nickname ASC;

SELECT

CASE

WHEN COUNT(chief) = 1 THEN chief || ' - unique'

ELSE chief || ' - non-unique'

END "The uniqueness of the chief"

FROM cats

GROUP BY chief

ORDER BY chief ASC;

-- TASK 11

SELECT nickname, COUNT(ENEMY\_NAME) "Number of enemies"

FROM Incidents

GROUP BY nickname

HAVING COUNT(ENEMY\_NAME) >= 2;

-- TASK 12

SELECT 'Number of cats= ' || COUNT(\*) || ' hunts as '|| function || ' and eats max. ' || TO\_CHAR(MAX(NVL(mice\_ration, 0) + NVL(mice\_extra, 0))) ||' mice per month'

FROM Cats

WHERE function <> 'BOSS'

AND gender <> 'M'

GROUP BY function

HAVING AVG(mice\_ration + NVL(mice\_extra, 0)) > 50;

-- TASK 13

SELECT band\_no, gender, MIN(NVL(mice\_ration, 0)) "Minimum ration"

FROM cats

GROUP BY band\_no, gender;

-- TASK 14

SELECT LEVEL, Nickname, Function, Band\_No

FROM Cats

START WITH Function = 'THUG' AND gender = 'M'

CONNECT BY PRIOR Nickname = chief

ORDER BY LEVEL, Nickname;

--TASK 15

SELECT LPAD((LEVEL-1),(LEVEL-1)\*4+1,'===>') ||' ' || Name, NVL(Chief, 'Master yourself') "Nickname of the Chief", Function

FROM Cats

WHERE Function IS NOT NULL

CONNECT BY PRIOR Nickname = chief

START WITH chief IS NULL;

-- TASK 16

SELECT LPAD(' ', 2\*(LEVEL)) || nickname "Path of chiefs"

FROM cats

CONNECT BY nickname = PRIOR chief

START WITH gender = 'M'

AND mice\_extra IS NULL

AND in\_herd\_since <= ADD\_MONTHS(TO\_DATE('2020-04-04', 'YYYY-MM-DD'), -132);