15-3: Managing Views

Vocabulary

1.top-n analysis
2.drop
3.Inline view

Try It / Solve It

1.

CREATE OR REPLACE VIEW view_copy_d_songs AS

SELECT title, artist

FROM copy_d_songs;

2.
Drop view view_copy_d_songs
select* from view_copy_d_songs

3.SELECT * FROM
(SELECT last_name, salary FROM employees ORDER BY salary DESC)
WHERE ROWNUM <= 3;

4.
SELECT empm.last_name, empm.salary, dptmx.department_id
FROM
(SELECT dpt.department_id, MAX(NVL(emp.salary,0)) max_dpt_sal
FROM departments dpt LEFT OUTER JOIN employees emp ON dpt.department_id =
emp.department_id
GROUP BY dpt.department_id) dptmx LEFT OUTER JOIN employees empm ON
dptmx.department_id = empm.department_id
WHERE NVL(empm.salary,0) = dptmx.max_dpt_sal;

5.
SELECT ROWNUM,last_name, salary
FROM
(SELECT * FROM f_staffs ORDER BY SALARY);

Extension Exercises

1.
```
CREATE TABLE my_departments
AS ( SELECT * FROM departments);
DESCRIBE my_departments;
DESCRIBE departments;
SELECT * FROM departments;
SELECT * FROM my_departments;
```

2.
```
SELECT * FROM user_constraints WHERE table_name = UPPER('my_departments');
ALTER TABLE my_departments
DROP CONSTRAINT SYS_C00868380;
```

3.
```
CREATE OR REPLACE VIEW view_my_departments  AS
SELECT department_id , department_name
FROM my_departments;
```

4.
```
INSERT INTO view_my_departments ( department_id, department_name)
VALUES(105, 'Advertising');

INSERT INTO view_my_departments ( department_id, department_name)
VALUES(120, 'Custodial');

INSERT INTO view_my_departments ( department_id, department_name)
VALUES(130, 'Planning');
```

5.
```
ALTER TABLE my_departments
ADD CONSTRAINT my_departments_id_pk  PRIMARY KEY (department_id);
DESCRIBE my_departments;
```

6.
```
INSERT INTO view_my_departments ( department_id, department_name)
VALUES(NULL, 'Human Resources');
ORA-01400: cannot insert NULL into
("HKUMAR"."MY_DEPARTMENTS"."DEPARTMENT_ID")
INSERT INTO view_my_departments ( department_id, department_name)
VALUES(105, 'Human Resources');
ORA-00001: unique constraint (HKUMAR.MY_DEPARTMENTS_ID_PK) violated
```

7.
```
INSERT INTO view_my_departments ( department_id, department_name)
VALUES(220, 'Human Resources');
```

8.
```sql
SELECT * FROM my_departments;
```

9.
```sql
CREATE OR REPLACE VIEW view_my_departments  AS
SELECT department_id , department_name, location_id
FROM my_departments;
SELECT * FROM view_my_departments ;
DESCRIBE view_my_departments;
SELECT * FROM user_constraints WHERE table_name =
UPPER('view_my_departments');
```

10.
```sql
UPDATE  my_departments
SET location_id = 1800
WHERE location_id IS NULL;
```

11.
```sql
CREATE OR REPLACE VIEW view_dpt_loc  AS
SELECT dpt.department_name, loc.street_address, loc.city, loc.state_province
FROM
 departments dpt
LEFT OUTER JOIN locations loc ON dpt.location_id = loc.location_id
left OUTER JOIN countries con ON loc.country_id = con.country_id
```