**Chapter- 1, No Code**

**Chapter- 2, Pg 7**

SELECT COLUMN\_NAME,DATA\_TYPE

FROM ALL\_TAB\_COLUMNS

WHERE TABLE\_NAME ='EMPLOYEES'

AND OWNER = 'HR';

**Chapter-2, Pg8**

CREATE INDEX "EMP\_NAME\_IX" ON "EMPLOYEES" ("LAST\_NAME", "FIRST\_NAME");

**Chapter-3, Pg24**

SELECT B.DEPARTMENT\_ID,

B.DEPARTMENT\_NAME,

A.FIRST\_NAME,

A.LAST\_NAME,

A.PHONE\_NUMBER,

A.HIRE\_DATE,

A.SALARY,

C.JOB\_TITLE

FROM HR.DEPARTMENTS B,

HR.EMPLOYEES A,

HR.JOBS C

WHERE A.EMPLOYEE\_ID = B.MANAGER\_ID

AND B.DEPARTMENT\_ID = A.DEPARTMENT\_ID

AND C.JOB\_ID = A.JOB\_ID;

**Chapter-3, Pg27**

SELECT DEPARTMENT\_ID,

DEPARTMENT\_NAME,

LOCATION\_ID

FROM DEPARTMENTS

**Chapter-3, Pg28**

SELECT EMPLOYEE\_ID,FIRST\_NAME,LAST\_NAME,EMAIL,DEPARTMENT\_ID

FROM EMPLOYEES

WHERE department\_id =:DEPARTMENT\_ID

**Chapter-4, Pg2**

DECLARE

BONUS NUMBER;

SAL NUMBER;

COMM NUMBER;

EMP\_NAME VARCHAR2 (20);

BEGIN

SELECT LAST\_NAME, SALARY, COMMISSION\_PCT

INTO EMP\_NAME, SAL, COMM

FROM EMPLOYEES

WHERE EMPLOYEE\_ID = 157;

BONUS := (SAL \* 0.10) + (COMM \* 0.15);

DBMS\_OUTPUT.PUT\_LINE('EMPLOYEE '|| EMP\_NAME || ' EARNS A NEW BONUS OF ' || BONUS );

END;

**Chapter-4, Pg7**

CREATE OR REPLACE

TRIGGER TRACK\_SALARY\_HISTORY

BEFORE INSERT OR UPDATE OF SALARY ON EMPLOYEES

FOR EACH ROW

WHEN (NEW.EMPLOYEE\_ID >0)

DECLARE SAL\_DIFF NUMBER;

BEGIN

SAL\_DIFF := :NEW.SALARY - :OLD.SALARY;

INSERT INTO SALARY\_HISTORY (EMP\_ID, NEW\_SAL, OLD\_SAL, INCREASE, UPDATED\_ON)

VALUES (:NEW.EMPLOYEE\_ID,:NEW.SALARY, :OLD.SALARY, SAL\_DIFF, SYSDATE);

END;

**Chapter-4, Pg14**

CREATE OR REPLACE

FUNCTION GET\_SALARY (EMP\_ID NUMBER) RETURN NUMBER IS

CURR\_SAL NUMBER;

BEGIN

SELECT SALARY INTO CURR\_SAL FROM EMPLOYEES

WHERE EMPLOYEE\_ID = EMP\_ID;

RETURN CURR\_SAL;

END GET\_SALARY;

**Chapter-4, Pg17 & 18**

CREATE OR REPLACE

PACKAGE EMP\_PROGUNITS AS

TYPE EMPRECTYP IS

RECORD (EMP\_ID INT, SALARY REAL);

CURSOR DESC\_SALARY

RETURN EMPRECTYP;

PROCEDURE HIRE\_EMPLOYEE

(LAST\_NAME VARCHAR2, JOB\_ID VARCHAR2,

MANAGER\_ID NUMBER, SALARY NUMBER,

DEPARTMENT\_ID NUMBER);

PROCEDURE FIRE\_EMPLOYEE (EMP\_ID NUMBER);

PROCEDURE ADD\_DEPT

(DEPARTMENT\_NAME IN DEPARTMENTS.DEPARTMENT\_NAME%TYPE,

LOCATION\_ID IN DEPARTMENTS.LOCATION\_ID%TYPE);

END EMP\_PROGUNITS;

**Chapter-4, Pg20 & 21**

CREATE OR REPLACE TRIGGER SECURE\_EMPLOYEES

BEFORE INSERT OR UPDATE OR DELETE ON EMPLOYEES

BEGIN

IF TO\_CHAR (SYSDATE,'HH24:MI') NOT BETWEEN '08:00' AND '18:00'

OR TO\_CHAR (SYSDATE, 'DY') IN ('SAT', 'SUN') THEN

RAISE\_APPLICATION\_ERROR (-20205, 'YOU MAY ONLY MAKE CHANGES DURING NORMAL OFFICE HOURS');

END IF;

END SECURE\_EMPLOYEES;

**Chapter-4, Pg26 & 27**

CREATE OR REPLACE PROCEDURE EMP\_DEPTS

(P\_MAXROWS VARCHAR2)

AS

CURSOR EMPDEPT\_CURSOR IS

SELECT D.DEPARTMENT\_NAME, E.LAST\_NAME, J.JOB\_TITLE

FROM DEPARTMENTS D, EMPLOYEES E, JOBS J

WHERE D.DEPARTMENT\_ID = E.DEPARTMENT\_ID

AND E.JOB\_ID = J.JOB\_ID;

EMP\_RECORD EMPDEPT\_CURSOR % ROWTYPE;

TYPE EMP\_TAB\_TYPE IS TABLE OF EMPDEPT\_CURSOR % ROWTYPE INDEX BY BINARY\_INTEGER;

EMP\_TAB EMP\_TAB\_TYPE;

I NUMBER := 1;

BEGIN

OPEN EMPDEPT\_CURSOR;

FETCH EMPDEPT\_CURSOR

INTO EMP\_RECORD;

EMP\_TAB(I) := EMP\_RECORD;

WHILE((EMPDEPT\_CURSOR % FOUND) AND(I <= P\_MAXROWS))

LOOP I := I + 1;

FETCH EMPDEPT\_CURSOR

INTO EMP\_RECORD;

EMP\_TAB(I) := EMP\_RECORD;

END LOOP;

CLOSE EMPDEPT\_CURSOR; FOR J IN REVERSE 1 .. I

LOOP DBMS\_OUTPUT.PUT\_LINE('THE EMPLOYEE '|| EMP\_TAB(J).LAST\_NAME || ' WORKS IN DEPARTMENT '|| EMP\_TAB(J).DEPARTMENT\_NAME);

END LOOP;

END;

**Chapter-5, No Code**

**Chapter-6, No Code**

**Chapter- 7, Pg 10**

select E.FIRST\_NAME,

E.EMAIL ,

E.HIRE\_DATE ,

E.LAST\_NAME,

D.DEPARTMENT\_NAME

from EMPLOYEES E,

DEPARTMENTS D

where E.DEPARTMENT\_ID = D.DEPARTMENT\_ID;

**Chapter- 7, Pg 11**

LOAD DATA

INFILE \*

TRUNCATE

INTO TABLE "EMPLOYEES"

FIELDS TERMINATED BY '|'

TRAILING NULLCOLS (

FIRST\_NAME,

EMAIL,

HIRE\_DATE timestamp "DD-MON-RR",

LAST\_NAME,

DEPARTMENT\_NAME)

begindata

Whalen|Jennifer|JWHALEN|17-SEP-87|Administration

Hartstein|Michael|MHARTSTE|17-FEB-96|Marketing

Fay|Pat|PFAY|17-AUG-97|Marketing

**Chapter-8 – No Code**

**Chapter-9 - No Code**

**Chapter-10 - No Code**

**Chapter-11 - No Code**

**Chapter-12 – No Code**

**Chapter-13 – No Code**

**CHapter-14 – No Code**