ORACLE KEYS

**First task:**

**Oil tables**

SELECT TABLE\_NAME, CONSTRAINT\_NAME FROM USER\_CONSTRAINTS

2 where table\_name in('CUSTOMER', 'HOUSETYPE', 'DELIVERY');

TABLE\_NAME CONSTRAINT\_NAME

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CUSTOMER CUSTID\_PK

CUSTOMER HOUSETYPECODE\_FK

DELIVERY THEKEY\_PK

DELIVERY CUST\_ID\_FK

HOUSETYPE HOUSE\_CODE\_PK

HOUSETYPE HOUSE\_CODE\_CH(**This is to check**

**that house type should be either ranch, cape or colonial)**

**1: Primary key on customer table**

alter table customer

2 add constraint custid\_pk primary key(custid);

**2: Primary key on housetype table**

alter table housetype

2 add constraint house\_code\_pk primary key(housetypecode);

**3: Check key on Housetype table**

alter table housetype

2 add constraint house\_code\_ch check(housetypecode in('ranch', 'cape', 'colonial'));

**4: Foreign key on customer table**

alter table customer

2 add constraint HOUSETYPECODE\_FK foreign key( HOUSETYPECODE) references housetype;

**5: Primary key on delivery table on custid and deldate**

alter table delivery

2 add constraint thekey\_pk primary key(custid, deldate)

3 ;

**6: Foreign key on delivery table**

alter table delivery

2 add constraint cust\_id\_fk foreign key( CUSTID) references customer;

**Task 2:**

**Payroll Tables**

**Showing index on my tables.**

SQL> select INDEX\_NAME from USER\_INDEXES where table\_name in ('EMP\_2','PROJECT';

INDEX\_NAME

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EMP\_PK

ENAME\_INDEX Index on employee name

PROJ\_PK

PROJ\_INDEX Index on project name

**Showing constraints on my tables**

SELECT TABLE\_NAME, CONSTRAINT\_NAME FROM USER\_CONSTRAINTS

2\* where table\_name in('EMP\_2', 'PROJECT', 'EMP\_PROJECT')

SQL> /

TABLE\_NAME CONSTRAINT\_NAME

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EMP\_2 EMP\_PK

EMP\_PROJECT EMP\_FK

EMP\_PROJECT PROJ\_FK

EMP\_PROJECT EMP\_PROJ\_DATE\_PK

PROJECT PROJ\_PK

**Employee table**

SQL> SQL> select \* from emp\_2;

EMPN ENAME SAL TAX\_WITHHELD MEDICAL\_WITHHELD MISC\_DEDUCTIONS

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01 SMITH 800 240 8 16

02 ALLEN 1600 480 16 32

03 WARD 1250 375 12.5 25

04 JONES 2975 892.5 29.75 59.5

05 MARTIN 1250 375 12.5 25

06 BLAKE 2850 855 28.5 57

07 CLARK 2450 735 24.5 49

08 SCOTT 3000 900 30 60

8 rows selected.

SQL> describe emp\_2;

Name Null? Type

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EMPNO NOT NULL VARCHAR2(4)

ENAME VARCHAR2(15)

SAL NUMBER(7,2)

TAX\_WITHHELD NUMBER(7,2)

MEDICAL\_WITHHELD NUMBER(7,2)

MISC\_DEDUCTIONS NUMBER(7,2)

**Project table**

SQL> describe project;

Name Null? Type

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PROJ\_ID NOT NULL VARCHAR2(4)

PROJ\_NAME VARCHAR2(15)

PROJ\_MANAGER VARCHAR2(15)

SQL> select \* from project;

PROJ PROJ\_NAME PROJ\_MANAGER

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p001 banking VARUN

p002 loan DAVE

p003 temperature NICK

p004 computing JANE

**EMP\_PROJECT table**

SQL> describe EMP\_PROJECT;

Name Null? Type

----------------------------------------- -------- ----------------------------

EMPNO NOT NULL VARCHAR2(4)

PROJ\_ID NOT NULL VARCHAR2(4)

DATE\_WORKED NOT NULL DATE

HOURS\_WORKED NUMBER(3)

SQL> select \* from emp\_project;

EMPN PROJ DATE\_WORK HOURS\_WORKED

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01 p003 06-JAN-13 5

01 p003 08-JAN-13 4

07 p001 06-MAR-12 3

07 p003 09-FEB-13 2

03 p002 21-JUN-11 6

05 p004 16-NOV-13 3

06 p002 26-DEC-12 4

08 p004 20-AUG-13 2

08 p001 26-JUL-13 3

02 p004 16-NOV-13 3

04 p002 26-DEC-12 4

EMPN PROJ DATE\_WORK HOURS\_WORKED

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02 p004 20-AUG-13 2

03 p001 26-JUL-13 3

13 rows selected.