

## DBMS

### EXP-4 WORKING WITH CONSTRAINTS

1. Add a table-level PRIMARY KEY constraint to the EMP table on the ID column. The constraint should be named at creation. Name the constraint my\_emp\_id\_pk.

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Rows

10 ▾



Save

Run

```
create table Emp_table(Emp_id int not null, first_name varchar(25), last_name varchar(25), constraint my_e
```

**Results** Explain Describe Saved SQL History

Table created.

0.42 seconds

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Rows

Rows

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Save

Run

DESC Emp\_table;

Results Explain Describe Saved SQL History

Object Type   **TABLE**   Object   **EMP\_TABLE**

[illegible]

2. Create a PRIMARY KEY constraint to the DEPT table using the ID column. The constraint should be named at creation. Name the constraint my\_dept\_id\_pk.

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Rows

10 ▾



Save

Run

```
create table dept_table(dept_id int Not Null, dept_name varchar(25), dept_head varchar(25) , constraint my
```

**Results** Explain Describe Saved SQL History

Table created.

0.01 seconds

Autocommit Rows 10 Save Run

```
DESC dept_table;
```

Results Explain Describe Saved SQL History

Object Type TABLE Object DEPT\_TABLE

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comments
DEPT_TABLE	DEPT_ID	NUMBER	22	-	0	1	-	-	-
	DEPT_NAME	VARCHAR2	25	-	-	-	✓	-	-
	DEPT_HEAD	VARCHAR2	25	-	-	-	✓	-	-

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3. Add a column DEPT\_ID to the EMP table. Add a foreign key reference on the EMP table that ensures that the employee is not assigned to nonexistent department. Name the constraint my\_emp\_dept\_id\_fk.

```
ALTER TABLE emp_table ADD CONSTRAINT my_emp_dept_id_fk FOREIGN KEY (dept_id) REFERENCES dept_table(dept_id);
```

**Results** Explain Describe Saved SQL History

Table altered.

0.01 seconds

4. Modify the EMP table. Add a COMMISSION column of NUMBER data type, precision 2, scale 2. Add a constraint to the commission column that ensures that a commission value is greater than zero.

```
ALTER TABLE emp_table ADD CONSTRAINT chk_commission_positive CHECK (commission > 0);
```

**Results** Explain Describe Saved SQL History

Table altered.

0.01 seconds