

DBMS LAB RECORD

EXERCISE – 03

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

The screenshot shows the SQL Developer interface with the following details:

- Schema:** WKSP_MITHULKK
- Language:** SQL
- Rows:** 10
- Buttons:** Clear Command, Find Tables, Save, Run
- SQL Command:**

```
1 ALTER TABLE EMP
2 ADD CONSTRAINT my_emp_id_pk PRIMARY KEY (ID);
3
```
- Results Tab:** Results, Explain, Describe, Saved SQL, History
- Message:** Table altered.
- Execution Time:** 0.08 seconds

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.

The screenshot shows the SQL Developer interface with the following details:

- Schema:** WKSP_MITHULKK
- Language:** SQL
- Rows:** 10
- Buttons:** Clear Command, Find Tables, Save, Run
- SQL Command:**

```
1 ALTER TABLE DEPT
2 ADD CONSTRAINT my_dept_id_pk PRIMARY KEY (ID);
```
- Results Tab:** Results, Explain, Describe, Saved SQL, History
- Message:** Table altered.
- Execution Time:** 0.09 seconds

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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

↑ SQL Commands

Schema WKSP_MITHULKK

Language SQL Rows 10 Clear Command Find Tables Save Run

↶ ↷ 🔍 ↵ A= ⚙️

1 ALTER TABLE EMP
2 ADD DEPT_ID NUMBER;

Results Explain Describe Saved SQL History

Table altered.

0.09 seconds

↑ SQL Commands

Schema WKSP_MITHULKK

Language SQL Rows 10 Clear Command Find Tables Save Run

↶ ↷ 🔍 ↵ A= ⚙️

1 ALTER TABLE EMP
2 ADD CONSTRAINT my_emp_dept_id_fk
3 FOREIGN KEY (DEPT_ID)
4 REFERENCES DEPT(ID);

Results Explain Describe Saved SQL History

Table altered.

0.05 seconds

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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.

The screenshot displays a SQL IDE interface with a dark theme. At the top, the 'SQL Commands' tab is active, and the 'Schema' dropdown is set to 'WKSP_MITHULKK'. Below the toolbar, the SQL command is entered in the editor:

```
1 ALTER TABLE EMP
2 ADD (
3     COMMISSION NUMBER(8, 2),
4     CONSTRAINT emp_commission_chk CHECK (COMMISSION > 0)
5 );
```

The 'Results' tab is selected, showing the message 'Table altered.' and the execution time '0.06 seconds'. The toolbar includes buttons for undo, redo, search, and formatting, as well as 'Clear Command', 'Find Tables', 'Save', and 'Run'.