Write a SQL statement to create a table employees including columns employee\_id, first\_name, last\_name, job\_id, salary and make sure that, the employee\_id column does not contain any duplicate value at the time of insertion, and the foreign key column job\_id, referenced by the column job\_id of jobs table, can contain only those values which are exists in the jobs table. The InnoDB Engine have been used to create the tables. The specialty of the statement is that, The ON UPDATE CASCADE action allows you to perform cross-table update and ON DELETE RESTRICT action reject the deletion. The default action is ON DELETE RESTRICT.

Assume that the structure of the table jobs and InnoDB Engine have been used to create the table jobs.

CREATE TABLE IF NOT EXISTS jobs (

JOB\_ID integer NOT NULL UNIQUE PRIMARY KEY,

JOB\_TITLE varchar(35) NOT NULL DEFAULT ' ',

MIN\_SALARY decimal(6,0) DEFAULT 8000,

MAX\_SALARY decimal(6,0) DEFAULT NULL

)ENGINE=InnoDB;

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| Field | Type | Null | Key | Default | Extra |

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| JOB\_ID | int(11) | NO | PRI | NULL | |

| JOB\_TITLE | varchar(35) | NO | | | |

| MIN\_SALARY | decimal(6,0) | YES | | 8000 | |

| MAX\_SALARY | decimal(6,0) | YES | | NULL | |

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**Sample Solution:**

CREATE TABLE IF NOT EXISTS employees (

EMPLOYEE\_ID decimal(6,0) NOT NULL PRIMARY KEY,

FIRST\_NAME varchar(20) DEFAULT NULL,

LAST\_NAME varchar(25) NOT NULL,

EMAIL varchar(25) NOT NULL,

PHONE\_NUMBER varchar(20) DEFAULT NULL,

HIRE\_DATE date NOT NULL,

JOB\_ID varchar(10) NOT NULL,

SALARY decimal(8,2) DEFAULT NULL,

COMMISSION\_PCT decimal(2,2) DEFAULT NULL,

MANAGER\_ID decimal(6,0) DEFAULT NULL,

DEPARTMENT\_ID decimal(4,0) DEFAULT NULL, FOREIGN KEY(DEPARTMENT\_ID) REFERENCES departments(DEPARTMENT\_ID),FOREIGN KEY(JOB\_ID) REFERENCES jobs(JOB\_ID))ENGINE=InnoDB;

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Let execute the above code in MySQL 5.6 command prompt

Here is the structure of the table:

mysql> DESC employees;

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| Field | Type | Null | Key | Default | Extra |

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| EMPLOYEE\_ID | decimal(6,0) | NO | PRI | NULL | |

| FIRST\_NAME | varchar(20) | YES | | NULL | |

| LAST\_NAME | varchar(25) | NO | | NULL | |

| EMAIL | varchar(25) | NO | | NULL | |

| PHONE\_NUMBER | varchar(20) | YES | | NULL | |

| HIRE\_DATE | date | NO | | NULL | |

| JOB\_ID | varchar(10) | NO | | NULL | |

| SALARY | decimal(8,2) | YES | | NULL | |

| COMMISSION\_PCT | decimal(2,2) | YES | | NULL | |

| MANAGER\_ID | decimal(6,0) | YES | | NULL | |

| DEPARTMENT\_ID | decimal(4,0) | YES | MUL | NULL | |

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