

# HRMS Data Model and ETL Process



Fact Table	Data Warehouse
<b>punch</b>	identity
punch_id	primary_key
employee_id	foreign_key from employee table
att_date	self
punch_in	self
punch_out	self

Dimension Table	Relational
<b>employee</b>	identity
employee_id	primary_key
employee_name	self
dob	self
gender_id	foreign_key from gender table
salary	self
reimbursement	self
doj	self
designation_id	foreign_key from designation table
manager_id	foreign_key from employee table (self)
department_id	foreign_key from department table
phone	self
emergency_phone	self
official_email_id	self
personal_email_id	self
current_address	self
permanent_address	self
education	self
mother's name	self
father's name	self
aadhar_number	self
pan_number	self
bank_id	foreign_key from bank table
ifsc_id	foreign_key from ifsc table
name_per_aadhar	self
shift_id	foreign_key from shift table

Dimension Table	Relational
<b>gender</b>	identity
gender_id	primary_key
gender_name	self

Dimension Table	Relational
<b>designation</b>	identity
designation_id	primary_key
designation_name	self

Dimension Table	Relational
<b>department</b>	identity
department_id	primary_key
department_name	self

Dimension Table	Relational
<b>bank</b>	identity
bank_id	primary_key
bank_name	self

Dimension Table	Relational
<b>ifsc</b>	identity
ifsc_id	primary_key
ifsc_name	self
bank_id	foreign_key from bank table

Dimension Table	Relational
<b>shift</b>	identity
shift_id	primary_key
shift_name	self
shift_login_time	self
shift_logout_time	self

Dimension Table	Relational
<b>attendance</b>	identity
attendance_id	primary_key
attendance name	self

Dashboarding admin panel	
Designation wise attendance	
Designation wise leave balance	Daily, Monthly, Yearly
Department wise attendance	Daily, Monthly, Yearly
Department wise leave balance	Daily, Monthly, Yearly
Shift wise attendance	Daily, Monthly, Yearly
Shift wise leave balance	Daily, Monthly, Yearly
Gender wise attendance	Daily, Monthly, Yearly
Gender wise leave balance	Daily, Monthly, Yearly
Top 5 attendance	Daily, Monthly, Yearly
Top 5 leave balance	Daily, Monthly, Yearly
Bottom 5 attendance	Daily, Monthly, Yearly
Bottom 5 leave balance	Daily, Monthly, Yearly
Top 5 late comings of the	Daily, Monthly, Yearly
Top 5 early leavings	Daily, Monthly, Yearly



Triggers Everyday at 6:00 AM IST	
MySQL	Daily Data Mart 1 condition current year
<b>daily_agg</b>	identity
d_attendance_id	primary_key
employee_id	foreign_key from employees table
att_date	as it is from punch table
total_hours	calculation of punch_out - punch_in in hours
attendance_id	decision of total_hours, foreign_key from attendance table

Triggers Last Day of the Month at 6:00 AM IST	
MySQL	Monthly Data Mart 1 condition current year mtd
<b>monthly_agg</b>	identity
m_attendance_id	primary_key
employee_id	foreign_key from employees table
Month	get month from att_date from daily_agg on last day of month
Year	get year from att_date from daily_agg on last day of month
Average_logged_in_hrs	calculation of mean of total_hours from daily_agg
Leave_balance	calculation of available monthly balance based on attendance_id in daily_agg